

Meeting	Monroe County Hazard Mitigation Plan Steering Committee Kick-off Meeting							
Date	June 29, 2015 Time 10:00 a.m. – 12:00 p.m.							
Location	Monroe County Office of Emergency Management (OEM), Rochester, NY							
	Fred Rion, Monroe County OEM							
Attendees	Debi Altemari, Monroe County OEM							
	Kristina Daugherty, Monroe County OEM							
	Justin Cole, Monroe County Geographic Information System (GIS) Services Division							
	Tom Goodwin, Monroe County Planning							
	Reinhard Gsellmeier, Monroe County Department of Environmental Services							
	John Ricci, Monroe County Department of Public Health							
	Tony Subbio, Tetra Tech, Inc.							

Purpose

The purpose of the kickoff meeting was to initiate the planning process to update the Monroe County Hazard Mitigation Plan (HMP). The meeting provided an opportunity for the Steering Committee to meet Tetra Tech, Inc.'s (Tetra Tech) project manager, and to discuss the project.

Discussion Points

This section summarizes each discussion point addressed during the kickoff meeting.

Mr. Rion briefly summarized background information regarding the HMP and the procurement process used to assign Tetra Tech as the County's vendor. The plan was first created in 2005, and updated in 2011. Some members of the current Steering Committee were involved in the 2011 update. The HMP was last adopted by the County on November 15, 2011. The updated plan must be finished by mid-August 2016 so that it can be adopted before it expires in November 2016.

Members of the Steering Committee introduced themselves

Community Rating System (CRS) Program

Mr. Subbio began the discussion of the Federal Emergency Management Agency's (FEMA) Community Rating System (CRS) Program. The CRS Program provides discounts to flood insurance premiums within a participating jurisdiction. Only the Town of Greece participates in the CRS Program. The Town is rated as a Class 8 community. Town of Greece residents within the 1% annual chance floodplain with a flood insurance policy get a 10% discount on their flood insurance; policyholders outside of that floodplain get a 5% discount.

A jurisdiction's Floodplain Management Plan can earn almost 400 CRS points for a jurisdiction. A FEMA-approved HMP can count as a Floodplain Management Plan, if the planning process is conducted in accordance with CRS requirements. The CRS requirements are more robust than the requirements of the Disaster Mitigation Act of 2000 (DMA 2000), against which FEMA judges an HMP. For instance, under the CRS, all Planning Committee meetings

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MEETING NOTES

must be publicly advertised and open to the public. The County will be conducting this HIMP update in accordance with the CRS requirements, with the goal of achieving up to approximately 300 CRS points for participating

Project Scope Review

This section summarizes each task of the project discussed at the kickoff meeting.

Task 1 - Project Management and Planning Comm

Mr. Subbio described the role of the Steering Committee. The Steering Committee will provide strategic direction to the planning process, and will review documents before they are shared with the Planning Committee. The group discussed other stakeholders to add to the Steering Committee. Mr. Rion will reach out to the Stormwater Coalition for representation on the Steering Commit

The Planning Committee will be comprised of representatives of each participating municipality, as well as other groups. These other stakeholders may include the Farm Service Agency, Soil and Water Conservation Service, school districts, the Chamber of Commerce, institutions of higher education, and the American Red Cross. Each organization represented on the Planning Committee will identify a primary and alternate member

Planning Committee members will complete a set of worksheets to provide information for the planning process. Mr. Subbio reviewed these worksheets with the Steering Committee. Mr. Rion requested (1) that the March 2014 blizzard, the wind event from a few weeks ago, and the extreme cold caused by a polar vortex in 2013 or 2014 be added to the list of events on Worksheet 1 (Events and Losses), and (2) that summary sheets be added for those events. Mr. Rion will provide specific dates for these events to Mr. Subbio. Mr. Subbio will update Worksheet 2 (Municipal Capability Assessment) to show that Monroe County is a StormReady County under the National Weather Service's (NWS) StormReady program. Planning Committee members representing the municipalities will complete all of the worksheets. Members representing other groups will only be asked to complete Worksheets 4 (Action Review) and 7 (Hazards of Concern).

Tetra Tech will conduct a set of Data Collection Meetings as part of the planning process. These meetings will provide an opportunity for the municipalities to bring several representatives—including the floodplain administrator, zoning officer, codes enforcement officer, and public works staff-into the planning process. The meetings will be held on a regional basis, with several municipalities attending each meeting. The goal of these meetings will be to complete all worksheets and collect additional information.

Mr. Subbio described the public outreach efforts that will be conducted during the planning process. Tetra Tech will establish a project website. The site will include announcements, draft materials, and a calendar of events. In addition, Tetra Tech will develop and post to the site a simple Citizen's Preparedness Survey, so that the Planning Committee can see the level of public awareness of mitigation practices.

Finally, Tetra Tech will conduct a set of public meetings conducted throughout the process. There will be a public informational meeting conducted at the end of July 2015, to introduce the public to the concept of mitigation and the planning process, and to solicit information and participation. Public meetings will also be held to review drafts of the risk assessment, mitigation strategy, and full draft of the HMP.

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Task 2 - Hazard Analysis and Risk Assessment

Mr. Subbio discussed the hazard analysis that will be used to update the risk assessment portion of the HMP. The existing HMP includes many hazards, with the following identified as high or moderately high risk:

- Ice Storm
- Flood
- Severe Storms
- Hazmat (in transit) Winter Storm (severe)
- Fire
- Utility Failure
- Explosion Structural Collapse
- Civil Unrest

These hazards are included on the Hazards of Concern worksheet. Planning Committee members will indicate their level of concern with these hazards, and the Steering Committee will identify the set of hazards of concern to analyze in the HMP.

Mr. Subbio discussed FEMA's Hazards U.S. (HAZUS) analysis that will be used for the earthquake, flood, and wind scenarios; these three hazards are expected by New York State and FEMA to be analyzed in the HMP. Tetra Tech will analyze the 100-, 500-, and 2,500-year Mean Return Period (MRP) earthquake events; the 1% and 0.2% annual chance flood events; and the 100- and 500-year MRP wind events

Tetra Tech will develop the hazard profiles, and will discuss them with the Planning Committee at the August 2015 meeting. Tetra Tech will then conduct the vulnerability assessment, and will share the results at the September : Planning Committee meeting. The public meeting to review the risk assessment will be held at that time as well.

Tetra Tech's analysts have been working with Mr. Cole to gather the geographic information system (GIS) data required to perform the analysis. Tetra Tech will request additional data from municipal and private organizations through the Steering Committee.

Task 3 - Mitigation Strategies and Activities

Mr. Subbio described that the Steering Committee will determine the mitigation goals and objectives, and will re them with the Planning Committee. Through the worksheets and data collection meetings, the Planning Committee members will provide information on the following:

- Their capabilities to implement hazard mitigation
- How mitigation activities are integrated into their normal operations
- The status of the mitigation actions identified in the 2011 HMP
- New mitigation actions to include in the updated HN



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Tetra Tech will conduct a Mitigation Solutions Workshop in conjunction with a Planning Committee meeting. The workshop will be led by a representative of FEMA Region II, and will help jurisdictions identify mitigation projects to

Tetra Tech will compile the mitigation strategy and review it with the Steering Committee. The strategy will then be reviewed with the Planning Committee and general public

Task 4 - Draft and Final Plans

Throughout the planning process, Tetra Tech will develop the HMP document. The main body will profile the County, explain the planning process, include the risk assessment and mitigation strategy, and discuss maintenance of the plan. Each jurisdiction will have its own annex in the HMP, which will provide information specific to that jurisdiction Tetra Tech will conduct a set of two Annex Workshops towards the end of the planning process to discuss the draft annexes with the jurisdictions and fill any information gaps.

As drafts of each section are developed, they will be sent to the New York State (NYS) Division of Homeland Security and Emergency Services (DHSES) mitigation planners for informal review and comment. Mr. Rion will review the drafts before they are sent to NYS DHSES. Tetra Tech will address any comments from the State in the documents.

The draft plan will be shared with the Steering Committee for review and comment. After making any required changes, Tetra Tech will post the HMP for public review. The public review period will be advertised, and will la 30 days. Tetra Tech will then conduct a public meeting to gather feedback on the plan draft, and will make any

Tetra Tech will then submit the draft for the State's formal review. NYS DHSES will review the draft. If changes are required, Tetra Tech will make the changes and resubmit the document to the State. After the State is satisfied with the draft, the State will forward it to FEMA Region II for review. FEMA Region II will review the draft within 45 days. If changes are required. Tetra Tech will make them. When FEMA is satisfied with the HMP. FEMA will grant the "approvable pending adoption" status, to indicate that it meets all requiremen

The County and participating jurisdictions will formally adopt the HMP by resolution. Mr. Rion will forward the resolutions to the NYS DHSES for processing and sharing with FEMA Region II. Each jurisdiction will receive a letter from FEMA stating that the HMP is formally approved.

Project Schedule Review

The Steering Committee reviewed the draft project schedule. The meeting dates identified on the schedule will be used. Mr. Rion requested that Tetra Tech provide meeting materials at least one week in advance of the meetings

Next Steps

. Tetra Tech will develop a list of interim deliverables with a timeframe for when they will be completed. The list will show the expectations for Steering Committee and Planning Committee members in terms of document review.

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- Mr. Rion will send the Steering Committee Meeting invitations to the committee members via email.
- . Mr. Rion will send the Planning Committee Kickoff Meeting invitation via e-mail by July 3, 2015.
- The Planning Committee Kickoff Meeting will be held at the end of July 2015.
- Mr. Rion will work with the County staff to develop a charge code so that their time can be recorded and
 counted towards the local match requirement of the FEMA grant funding the HMP update.
- Mr. Rion will e-mail State personnel for the list of historic sites.
- · Tetra Tech will develop a data request letter to send to municipal authorities and private entities.
- . Ms. Alternari will work with the water authority to request its GIS data.
- Mr. Rion will contact the County Office of Mental Health to request a list of alcohol and drug rehabilitation facilities.
- Mr. Rion will develop a short presentation that can be given to the Council of Governments (COG), mayors, supervisors, and County Executive to describe the mitigation planning process.
- Tetra Tech will develop a one-page document introducing the mitigation planning process to stakeholders.
- Tetra Tech will begin developing the risk assessment.

The meeting adjourned at 12:00 p.m.





Agenda Introductions Community Rating System (CRS) Program Project Scope Review Project Schedule Review Next Steps Questions



Community Rating System Program Biggert-Waters 2012 – flood insurance premiums are going to go up Homeowners' Flood Insurance Affordability Act 2014 – premiums are going to go up, but not as quickly Community Rating System Documits on flood insurance premiums are based on the community of floodplain insuagement program — Usus 10 to 16sa 1–36 discount for each — The Town of Greece already participates (Class S) — Credits for Hoodplain Management Program • More solver requirements for HOP has the DMA 2000





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Project Scope Review (Continued) • Planning Committee (Continued) • Worksheet: • Does and Issues • Municipal Copality Assessment • Meetings are open to the public

Project Scope Review (Continued) • Data Collection Meetings - Meeting with each municipality - Attendees: • Manager • Placenge • Placenge • Doong • Code • Highery - Collect information and documents • Blackara

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AGENDA

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Steering Committee Kickoff Meeting Agenda

Monday, June 29, 2015 | 10:00 a.m. - 12:00 p.m.

1. Introductions

2. Community Rating System (CRS) Program

Project Scope Review
 a. Task 1 – Project Management and Planning Committee Facilitation
 i. Steering Committee
 ii. Planning Committee (PC)
 iii. Data Collection Meetings
 iii. Planting Common Meeting Common Meeting Common Meetings
 iii. Planting Common Meeting Comm

iv. Public Outreach

b. Task 2 – Hazard Analysis and Risk Assessment
 c. Task 3 – Mitigation Strategies and Activities

Develop Goals and Objectives
 Capability Assessment
 Mitigation Action Plan Review

Integration Actions

New Mitigation Actions/Projects

d. Task 4 – Draft and Final Plans

4. Project Schedule Review

5. Next Steps

OE COUNTY HAZARD MITHGATION PLAN UPDATE
Worksheet #2 - Events and Lesses

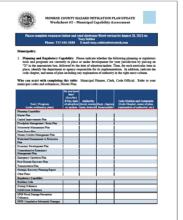
Less of Service (a.g. read closures, utility compres, commercial closures — include location, time of closure and/or number of affecteds;

Damage (e.g. roads, bridges, culvern, treatment facilities, lift stations, etc.):

a. Document Request
b. Planning Committee Kickoff Meeting
c. Risk Assessment Update

6. Questions











Then, please fill out an "Event and Loss Summers Sheet" for the two disasters in 2014. Feel free to add additional theets for other major events in your community.

Breat Type	FEMA Declaration	Monroe County Designated?	Did your community suffer leases/unds from this event? (Yes,No - H'yes' please complete an Event Less Summary Shoot for this event.)
			Main Struct was closed due to flooding for 1 days; GPW and Police counting for 1 days to deture singles, collect dalvis, autor at the lar; Medice at High School agest for 1 day.
Ngh Wast	NA	NA	
ferms from. Fineding. Totaldon, said freight-line Wash	ER-1993	No	
Righ World	NA.	NA	
High Winds	NA.	NA	
Harrison Souty	EM-0070	Yes	
Serum Stores and Flooding	DE-4129	No	
la from	NA	NA	
Seven Stores and Fiording	DR-4180	Na	
	Eigh Ward Sevan Trome, Friending, Trimsdam, tall Translam Land Translam Land Translam Land High Ward High Ward Horizona Statly Sevan Statle Land Friending Land Statle Land St	Eigh Ward Ni A Franchison, Translation, 128-1890 Translation, 128	Page Page









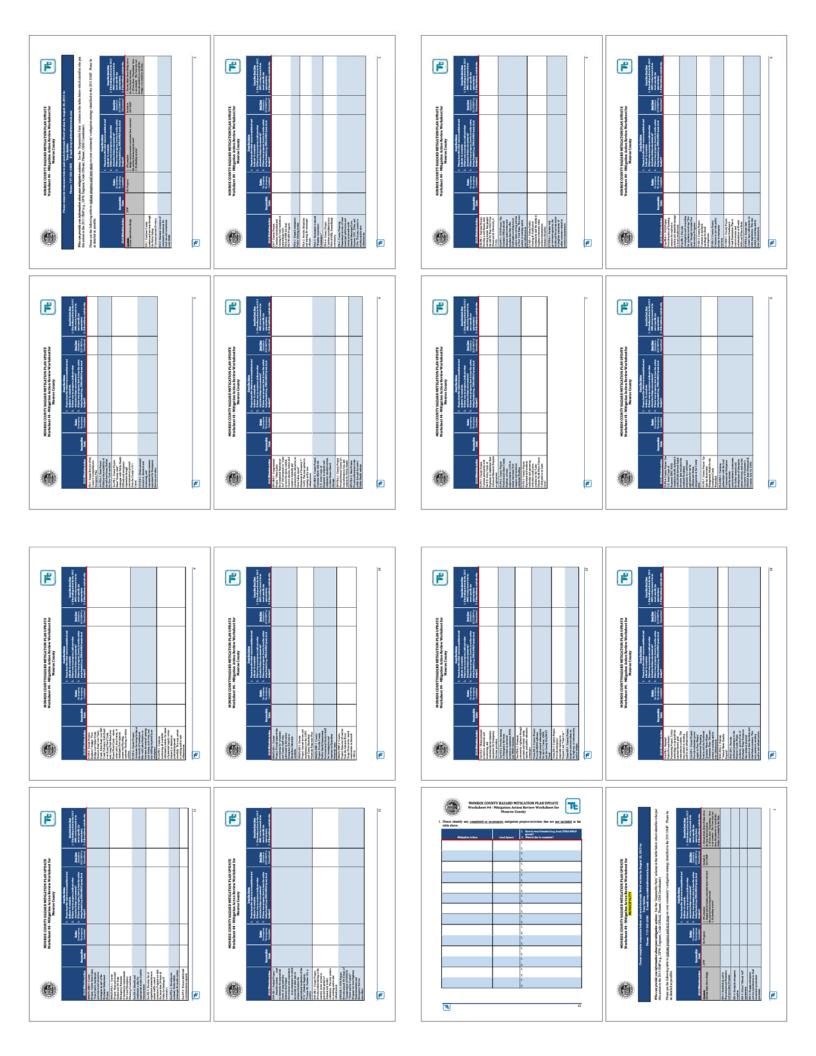
http://www.icomitination.com/upc/000/upc/0011.lend The National Weather Service Storm Ready website at

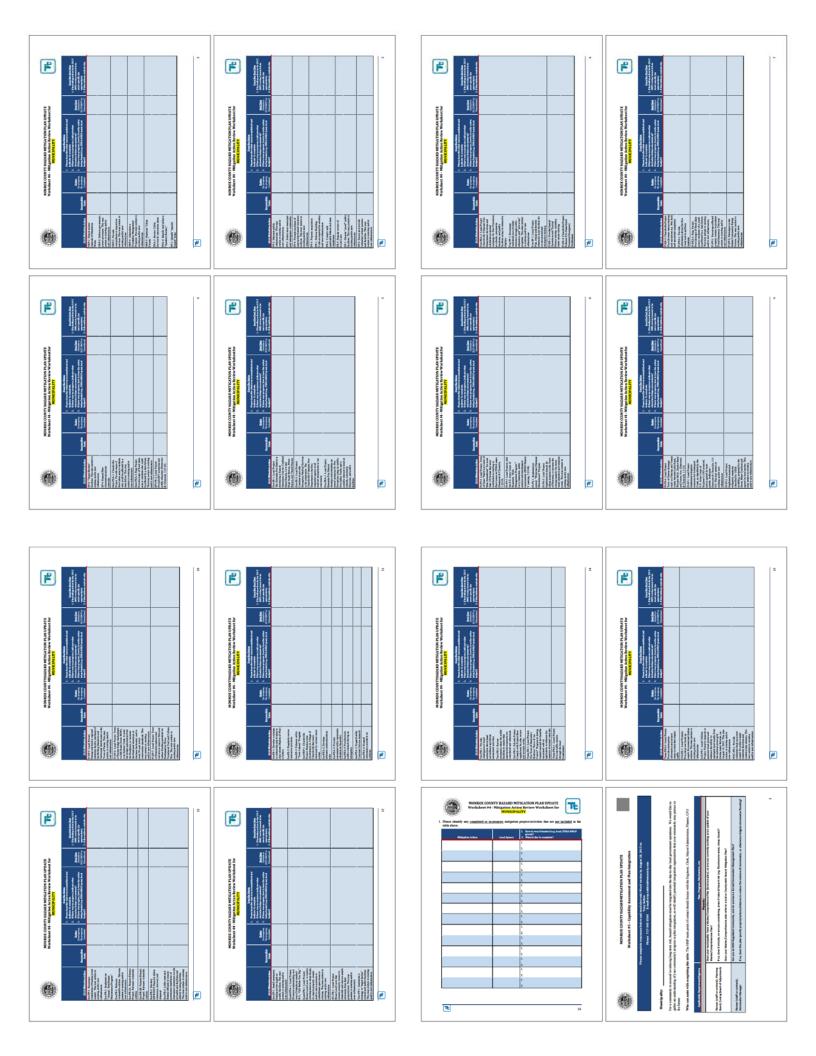


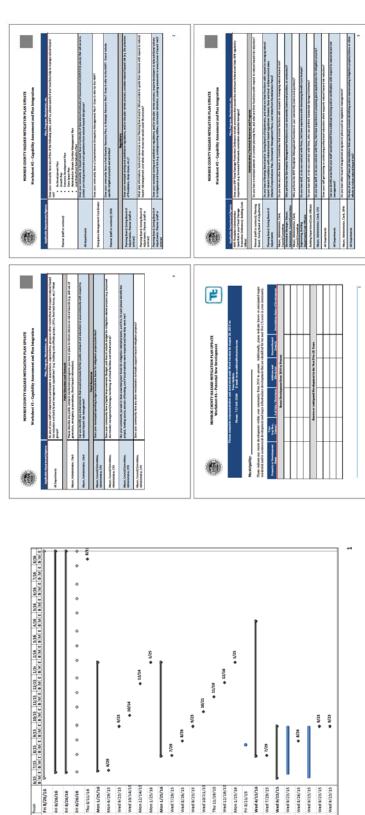
Are you the releperors arouning the responsibilities of floodybias administration, or do you have other staff or use context staff if needed?



joining (or rejoining) the Community Rating System (CRS) program turns for their insured? If so, would your community attend a CRS







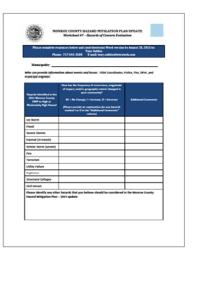
Wed 7/29/15

Planning Committee Meeting - Beview Hazard Profiles

Mon 6/15/15

Monroe County, NY Hazard Mitigation Plan Update Schedule

annual de la comitation			
Part .	Part Fnish	6/35 7/35 8/35 8/35 39/35 31/35 32/35 3/36 2/36 3/36 6/36 6/36 7/36 8/36 8/36 8/36 8/36 8/36 8/36 8/36 8	6 7/36 B/36
k 3 - Mitigation Strategies and Activities	Wed 7/29/15 Wed 12/16/11	3.	
ssess Capabilities	Wed 7/29/15 Wed 10/7/15		
evelop Mitigation Actions	Wed 7/29/15 Pri 10/30/15		
evelop Goals and Objectives with Sc	Wed 9/30/15 Wed 10/21/1		
eview Goals, Objectives, and Analysis with PC	Wed 10/21/15 Wed 10/21/15	13 4 10/21	
onduct Mitigation Workshops with PC	Tue 11/17/15 Wed 11/18/1	-	
evelop New Mitigation Strategy	Wed 7/29/15 Tue 12/8/15		
eview New Mitigation Strategy with the PC	Wed 12/16/15 Wed 12/16/1	13	
fitigation Strategy Public Meeting	Wed 12/16/15 Wed 12/16/11	13	
k 4 - Draft and Final Plan Deliverables	Mon 6/15/15 Thu 8/11/16		ľ
raft Plan	Mon 6/15/15 Mon 1/25/16		
nnex Workshops	Tue 12/8/15 Wed 12/9/15	5 + 12/9	
pdate Based on NYS DetSES Initial Review	Thu 9/17/15 Mon 1/25/16		
eview Draft with 5C	Tue 1/26/16 Tue 1/26/16	41/26	
pdate Based on SC Comments	Tue 1/26/16 Mon 2/1/16	•	
ublic Review Period	Tue 2/2/16 Pri 3/4/16	ı	
raft Plan Public Review Meeting	Tue 3/8/16 Tue 3/8/16	8/€ ◆	
inalize Draft Plan	Tue 3/2/16 Mon 3/14/16	•	
ubmit to NYS DetSES for Formal Review	Tue 3/15/16 Tue 3/15/16	◆ 3/15	
IYS DHSES Review Period	Wed 3/16/16 Tue 4/12/16	1	
pdate Based on NYS DetSES Review	Wed 4/13/16 Mon 4/13/16	•	
ubmit Final Draft HMF to FEMA for Formal Review	Tue 4/19/16 Tue 4/19/16	4 4/19	
EMA Review Period	Wed 4/20/16 Fri 6/24/16		
iscuss PEMA Comments on Final Draft HMP	Mon 6/27/16 Mon 6/27/16		4 6/27
pdate Final Draft HMP Based on FEMA Comments and Resubmit	Mon 6/27/16 Pri 7/1/16		
eceive APA Status	Pri 7/29/16 Pri 7/29/16		8Z/L *
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SIGN-IN

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Steering Committee Kickoff Meeting

10:00 a.m. - 12:00

2015

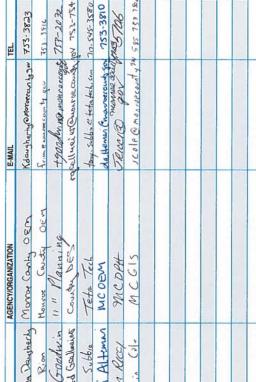
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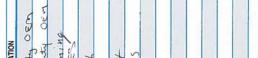
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Richard Tracy, Town of Rush and Brighton Fire
Rob Boutillier, Town of Webster
Jake Swingly, Village of Webster
William Platt, American Red Cross
Michael Giurdino, Greater Rochester International Airport
Al Wager, National Grid
Jamie Renner, Rochester Fire
Dave Kester, Rochester-Genesee Regional Transportation Authority (RGRTA)
Lynn Daley, Rochester Institute of Technology (RIT)
Kirk Parsons, Time Warner Cable
Tony Subbio, Tetra Tech, Inc. (Tetra Tech)
Alysse Stehli, Tetra Tech

The purpose of the Planning Committee Kickoff Meeting was to commence the planning process to update the Monroe County Hazard Mitigation Plan (HMP). The meeting provided an opportunity for the Planning Committee to meet the Tetra Tech, Inc. (Tetra Tech) project team, and to learn about the project needs and expectations.

Discussion Points

This section summarizes each discussion point addressed during the Planning Committee Kickoff Meeting

Welcome and Introductions

Mr. Rion welcomed meeting attendees to the Planning Committee Kickoff Meeting and provided a brief summary of background information about the HMP update. He compared this update to the previous HMP update process for those Committee members who participated in 2010, and explained that there would be a time code requirement for County employees participating in the planning process. He explained that the code will help the County meet local match requirements for the grant, and that he will provide more information on the time code to County employees in the near future. Municipal and stakeholder organizations are not required to use this time code

Following Mr. Rion's introduction, the meeting attendees introduced themselves. Each attendee identified the organization he/she represented, and his/her experience with hazard mitigation. For about half the attendees, this eeting was the first exposure they had to hazard mitigation and the hazard mitigation planning process.

Community Rating System (CRS) Program

Mr. Subbio explained that this HMP is being updated to qualify for CRS points. To explain the benefits of a CRScompliant HMP, Mr. Subbio gave a brief history of recent flood insurance reform and the CRS program, Mr. Subbio explained how the Biggert Waters Act of 2012 and the Homeowners Flood Insurance Affordability Act (HFIAA) of 2014 sought to make the National Flood Insurance Program (NFIP) more sustainable by requiring all properties to pay actuarial risk rates. Although the HFIAA has delayed the immediate removal of all subsidies to prevent increased



MEETING NOTES

Date	July 29, 2015 Time 9:00 a.m. – 10:30 a.m.								
Location	Monroe County Office of Emergency Management, Rochester, NY								
	Frederick Rion, Monroe County Office of Emergency Management (MCOEM)								
	Kristina Daugherty, MCOEM								
	Mark Leszcziski, MCOEM								
	Tina Carson, Monroe County 9-1-1								
	John Merklinger, Monroe County 9-1-1								
	Richard Grellweir, Monroe County Department of Environmental Services (MC DES)								
	Bill Putt, MC DES								
	Andy Sansore, MC DES								
	Michelle Virts, MC DES								
	Tom Goodwin, Monroe County Department of Planning								
	Mike Sayers, Monroe County Department of Public Health								
	Mary Quinlivan, Monroe County Department of Public Safety								
	Rich Verdoon, Monroe County Department of Public Safety Communications								
	Sam Derosa, Monroe County Fire Bureau								
	Justin Cole, Monroe County Geographic Information System (GIS)								
Attendees	Jennifer Kusse, Monroe County Information Services (MCIS)								
Attenuees	Jennifer Curley, Monroe County Sheriff's Office (MCSO)								
	Lou Tomassetti, MCSO								
	Brad Smith, Monroe County Water Authority (MCWA)								
	Tim Keef, Town of Brighton								
	Brian Ostling, Town of Chili								
	Dawn Forte, Town of Chili								
	Nancy Steedman, Village of Churchville								
	Fritz May, Village of Fairport								
	Chuck Marshall, Town of Henrietta								
	Mike Lisson, Village of Hilton								
	Mike McHenry, Village of Hilton								
	Gregory D. Merrick, Town of Irondequoit								
	Ron Britt, Town of Ogden								
	Tony LaFountain, Town of Penfield								
	Greg Siegfred, Town of Perinton								
	Kelly Cline, Town/Village of Pittsford								



MEETING NOTES

owners, flood insurance premiums will continue to increase. The federal government—and in particular, the Federal Emergency Management Agency (FEMA)—are exploring alternatives to prevent such premium increases. Because property acquisition is not a feasible solution for every community, the CRS program offers an alternative to help communities with a significant number of properties in the floodplain

The CRS program offers property owners in municipalities with strong flood control and flood manage the ability to earn discounts on flood insurance premiums. Specifically, the program awards points for floodplain management processes already in place, particularly those that exceed minimum NFIP requirements. The CRS ranks municipalities in one of 10 classes, and every municipality begins at a Class 10. As the municipality earns points, it can go down a class level and earn an extra 5% off in premium discounts. Currently in Monroe County, the Town of Greece is the only CRS-participating community and is at a Class 8 (10% discount).

A community can implement multiple activities to earn points for CRS. Monroe County plans to conduct this mitigation plan process in accordance with the CRS requirements for a Floodplain Management Plan (FMP), which can earn each qualifying community up to 250-300 points and put them halfway towards their next class rating. The two main noticeable differences to Planning Committee members will be:

- Every meeting will be open to the public, including Planning Committee meetings.
- Municipal representatives must attend each of the Planning Committee meetings, beginning with the next meeting.
 - This is in contrast to previous updates, where the municipal representative only needed to attend
 - Meeting dates and locations are available on the project website (www.monroecountyhmp.com) and on the MC OEM website (under announcements); the County will also e-mail meeting reminders to Planning Committee members before each meeting.

Planning Organization

Mr. Subbio next reviewed the planning process that would be used to update the Monroe County HMP. He explained that Monroe County had developed a Steering Committee consisting of several County representatives as well as other stakeholders, which will provide strategic guidance throughout the update process. He also reviewed the role of the Planning Committee and its purpose. The Planning Committee will consist of municipal representatives from each municipality, stakeholders including the American Red Cross, National Grid, and other major industries; and County representatives. The Planning Committee will meet monthly to review the current status of the HMP; meeting dates have already been set and advertised.

Mr. Subbio also discussed the public outreach components of the update. These include a project website (www.monroecountyhmp.com), which provides information on the project and access to a public Citizens Preparedness Survey, and public information meetings. The first informational meeting will be held at 6 p.m. on the same date as the Planning Committee kickoff meeting (July 29, 2015), at the MC OEM. During the informational meeting, meeting coordinators will explain hazard mitigation, the purpose of the planning process, and ways residents of the County can participate. The update process will also include a FEMA-designated public review meeting, which will be similar to the informational meeting but will review the draft, hazards, and risk assessment. Mr. Subbio also asked all Planning Committee representatives to share this plan update with any boards, councils, etc.,



that they participate on and that the County or Tetra Tech would attempt to present at meetings for these organizations as well. The MCWA has noted that the stormwater management plan update committee may be interested in learning more about the HMP.

Mr. Subbio next discussed the different methods of data collection for the HMP update. To facilitate information collection from municipal representatives, Tetra Tech will be providing each municipality with a series of worksheets.

Although these worksheets are substantial, they will facilitate the plan process and jurisdictional annexes in a way that will ultimately make the plan update proceed faster and more smoothly. Mr. Subbio reviewed each of the seven worksheets briefly and explained that the worksheets would be e-mailed to municipal representatives, as well as being posted on the project website. If a municipal representative prefers a hard-copy version of the worksheets, these can also be made available. Worksheets should be submitted by midilate August 2015. Mr. Rion also noted that he will coordinate the submission of one set of County worksheets, as the County will participate as one entity rather than as individual departments. Mr. Subbio recommended that the municipal representative work with the codes enforcement officer, zoning officer, municipal manager, and floodplain administrator to help gather all necessary information. In response to a question, Mr. Subbio clarified that formally incorporated villages should still complete their own set of worksheets, even if they are fully surrounded by a town. In response to another question Mr. Subbio also noted that the stormwater management plan should be represented on both County and municipal

Recause of the extensive idetailed information requested on the worksheets. Monroe County will be holding a series of workshops for municipal representatives. During each workshop, Tetra Tech will explain how to complete the surveys, answer any questions, and discuss hazard impacts and vulnerabilities. Meetings will be held on August 18-20, 2015. Mr. Rion asked whether any municipal representatives would be interested in hosting a meeting; the Village of Churchville and the Towns of Penfield, Chili, and Brighton all volunteered to host a municipal workshop. Dates and locations will be posted on the project website and will be e-mailed by Mr. Rion.

In addition, Mr. Subbio requested that all municipalities and stakeholders identify and share any reports, plans strategic documents, or other information that would be relevant to mitigation projects and community goals. Most frequently, these documents include master plans, subdivision and land development ordinances, after-action reports for incidents or exercises, stormwater management plans, emergency operations plans, capital improvement plans/projects, and summaries of the local budget.

Mr. Subbio then reviewed the process for incorporating all the information from the worksheets and additional plans into the HMP. He first focused on the Hazard Analysis and Risk Assessment. The County HMP must profile, at a minimum, the hazards that are included in the State of New York HMP. These include

- Earthquake
- Extreme Temperatures
- Hazardous Materials (HazMat) Both fixed sites and materials in transit
- Flood



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As part of the process of developing the mitigation strategy, FEMA Region II will lead a Mitigation Solutions Workshop to discuss methods to develop comprehensive and detailed actions. Once the actions have been set, the Planning Committee will review the mitigation strategy, and the Steering Committee will conduct a public meeting to inform residents on the current mitigation strategy

Throughout the next several months, the Tetra Tech team will be developing the initial draft of the Monroe County HMP update. This document will consist of two volumes. Volume I will contain the risk assessment, planning process, mitigation strategy, capability assessment, and county profile; and Volume II will contain the jurisdictional annexes for each municipality. As each section is finished, the New York State (NYS) Division of Homeland Security and Emergency Services (DHSES) will informally review the section and provide feedback to facilitate the later formal

Once the draft is fully completed, Tetra Tech will share it with the Steering Committee and then the Planning Committee for feedback. At that point, the 30-day public comment period will commence. The conclusion of the public comment period will include a public draft review meeting. At that point, Tetra Tech will incorporate all feedback and submit the HMP to NYS DHSES for formal review. After NYS DHSES finishes its formal review, it will forward the draft to FEMA for the FEMA formal review, which typically lasts about 45 business days. Tetar Tech will make any changes required by FEMA or NYS DHSES, and upon satisfactory review, FEMA will issue the "approval pending adoption" (APA) designation to the HMP update. Once the Monroe County HMP has received its APA signation, the County and its municipalities may formally adopt the plan.

Project Schedule Review

Mr. Subbio next went over the current project schedule with the Planning Committee. He explained how the schedule tied into the overall planning process and how the process may evolve throughout the update. Mr. Subbio also highlighted the dates for Planning Committee, Steering Committee, and public meetings.

Mr. Subbio discussed the participation requirements for municipal and stakeholder representatives. He requested that each organization identify one primary and one backup Planning Committee member and send contact information for each person. He also noted that the municipal workshops (held during the week of August 17, 2015) could include the municipal manager, floodplain administrator, codes enforcement officer, zoning officer, plann representative, and representative from highway/Department of Public Works, if deemed appropriate by the municipal representative. That noted, a Planning Committee member and the floodplain administrator are the two most important staff members to have attend the workshop. Additionally, although the workshops are designated for municipalities, stakeholders may attend, if interested.

Lastly, Mr. Subbio requested that Planning Committee members spread the word about the HMP update to as many people as possible and reiterated the importance of including the HMP update as a brief agenda item on Planning Boards, Chamber of Commerce meetings, etc. Additional meetings (which must include sign-in sheets) count for additional participation credit under CRS. In response to a question regarding meeting materials, Mr. Subbio confirmed that any protected or sensitive information from municipalities will not be posted or made available to the



MEETING NOTES

- Severe Storms Thunderstorms, lightning, tornado, and hail
- Severe Winter Storms Snowfall, blizzard, and ice storm
- Utility Failure

The Planning Committee discussed whether to include several hazards that were not required but might be beneficial for examination, including the following:

- Hurricanes The Planning Committee decided to include this hazard under the Severe Storms profile, as it is not a significant concern for the County. That noted, the Planning Committee would like the hazard profile to note the impact of Superstorm Sandy on Monroe County; specifically, with the reduction of responders in the County because the responders reported to other parts of the State to help with hurricane response.
- . Infestation The Planning Committee would like to include a small profile on infestation to recognize the efforts already in place, particularly in the Department of Public Health. The hydrilla plant was not noted as a major concern, despite its prevalence in the neighboring Livingston County
- Subsidence/Sinkholes The Planning Committee decided not to include this in the HMP as it is not a major
- Terrorism The Planning Committee would like to include this hazard, at least initially, due to the vernment facilities and proximate location to an international border
- Others:
 - Civil Unrest The Planning Committee would like an initial analysis completed for Civil Unrest. At this point, the committee will evaluate whether a full profile should be generated.
 - HazMat The Planning Committee wanted to confirm that railroad and airport transportation would be considered in the HazMat profile.

Each hazard profile will include a significant amount of information on the hazard, such as the general definition. extent. location. past occurrences, probability of future occurrences, and overall vulnerability (potential damages and impacts to property and life). The August 2015 Planning Committee Meeting will include a discussion of the hazard definitions, extent, and location, while vulnerability will be reviewed at the September 2015 Planning Committee Meeting. The hazard profiles will also discuss the interdependency of different hazards (in other words, which hazards can also lead to or can occur as secondary hazards). For instance, floods can be a result of severe storms and power outages can result from floods or severe storms

Mitigation Strategy

Mr. Subbio then discussed the development of the mitigation strategy for the Monroe County HMP. The process will begin with a review and revision (if needed) by the Steering Committee of the previous plan's goals and objectives. These goals and objectives will then be shared with the Planning Committee for feedba

The mitigation strategy will include a discussion of the status for each past action and whether the actions are still relevant for the current update. It will also incorporate integrated mitigation actions (in other words, those actions that have been integrated into daily or regular operations). Common examples include maintaining codes and clearing storm drains. The process of developing the mitigation strategy is also the period of the plan update where new actions and projects are identified.

PAGE 5 OF 7



MEETING NOTES

Next Steps

The following next steps were identified:

- Municipalities and stakeholders will identify and share any reports, plans, or other strategic documents relevant to the HMP update and mitigation projects.
- Municipalities will complete and submit the HMP worksheets by mid-late August 2015.

 Tetra Tech will post the HMP worksheets and mitigation workshop dates and locations on the project website, and Mr. Rion will share this same information by e-mail.
- Mr. Rion and other Planning Committee members will promote the project website, which will contain information about the HMP, planning process, and outreach opportunities, including a Citizens
 Preparedness Survey. All future public meetings will continue to be advertised by multiple methods to ourage resident participation in the HMP update
- . The Steering Committee will coordinate with the MCWA to determine whether Tetra Tech or a County representative can present at a stormwater management plan update meeting
- The Steering Committee will check to see whether Monroe County Community College is represented on the Planning Committee. If not, the Steering Committee will reach out to them
- Tetra Tech will work on the hazard profiles and risk assessment portion of the HMP. The initial analyses will be discussed at the August 2015 Planning Committee meeting.
- The August 2015 Planning Committee meeting will be held from 9:00 a.m. to 11:00 a.m. on August 26,

With no further questions, Mr. Subbio and Mr. Rion thanked attendees for their time. The meeting concluded at 10:30

PAGE 6 OF 7 PAGE 7 OF 7



AGENDA

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Kickoff Meeting Agenda

Wednesday, July 29, 2015 | 9:00 a.m. - 11:00 a.m.

- 1. Introductions
- 2. Community Rating System (CRS) Program
- 3. Planning Process
 - a. Organization
 b. Data Collection

 - c. Hazard Analysis and Risk Assessment
 - d. Mitigation Strategy and Activities
 - e. Draft and Final Plans
- 4. Project Schedule Review
- 5. Participation
- 6. Next Steps
 - Complete worksheets
 - b. Provide reports and plans
 c. Risk assessment update

 - d. Municipal meetings e. Next Planning Committee Meeting Hazard Profiles

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8

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7. Questions





Planning Process (Continued)

Hazard Analysis and Risk Assessment (Con



Planning Process (Continued)

- Hazard Analysis and Risk Ass

- Planning Process (Continued)
- Hazard Analysis and Risk Assessment (Continued)



Planning Process (Continued)

- Mitigation Strategy and Activities (Continued)

Planning Process (Continued) Draft and Final Plans

8





Agenda

- Introductions
 Community Rating System (CRS) Program
 Planning Process
 Project Schedule Review

- · Participation
- 8

Introductions

- Name
 Municipality/Agency
 Irrobved in the 2010-2011 Pre-Disaster Mitigation Plan (PDMP)?

(8)

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(8)

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Community Rating System Program

- Biggert-Waters 2012 Flood insurance premiums are going to go up.
 Homeowners' Flood Insurance Alfordability Act 2014 Premiums are going to go up, but not as quickly.
 Community Rating System (CRS)
 Discounts on flood insurance premiums are based on the community-floodplain management program.
 Class 10s Class 1—56 discount for each
 The Town of Greece already participates (Class 8)
 Credit for Floodplain Management Program
 More robust requirements for HOMP than CMA 2000

(3)

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Planning Process

Planning Process (Continued) Data Collection Reports and Plans Worksheets Managed Capability Assistance Managed Capability Assistance Managed Capability Assistance Managed Capability Assistance Capability Assistance and Plan Into New Development Nearth of Concern Municipal Meetings



Planning Process (Continued)

- Draft and Final Plans (Continued)



Participation

- Identify primary and backup Planning Committee members
 Municipal Meetings
 Mid-August

- 8

Next Steps Complete worksheets

- Provide reports and plans
 Risk assessment update
 Municipal meetings
 Week of August 17-21, 2015

8

Questions?

Thank you for your time!





MONROE COUNTY HAZARD MITIGATION PLAN UPDATE



ase complete responses below and send electronic Word version by August 28, 2015 to Tony Subbio Phone: 717-545-3580

Municipality:

Who can provide information about events and losses: OEM Coordinator, Police, Fire, DPW, and municipal Engineer. Refer to FEMA Project Worksheets (PWs), DPW records, police response records,

In the table below, please identify events in which your community suffered significant damages/losses and describe these losses (e.g., flooded roads, road closures, DPW/Police overtime, debris management, opened shelter for two days, etc.). Please add other non-declared events that affected your community that are not listed.

Then, please fill out an 'Event and Loss Summary Sheet' for the two disasters in 2014. Feel free to add additional sheets for other major events in your community.

Dates of Event	Event Type	FEMA Declaration	Monroe County Designated?	Did your community suffer losses/costs from this event? (Yes/No - If 'yes' please complete an Event Loss Summary Sheet for this event.)
EXAMPLE				Main Street was closed due to flooding for 3 days; DPW and Police overtime for 3 days to detour traffic, collect debris, assist at shelter; Shelter at High School open for 1 day
May 8, 2010	High Wind	N/A	N/A	
April 26 - May 8, 2011	Severe Storms, Flooding, Tornadoes, and Straight-line Winds	DR-1993	No	
January 17, 2012	High Wind	N/A	N/A	
February 24, 2012	High Winds	N/A	N/A	
October 27 – November 8, 2012	Hurricane Sandy	EM-3351	Yes	
June 26 - July 11, 2013	Severe Storms and Flooding	DR-4129	No	
December 21, 2013	Ice Storm	N/A	N/A	
March 12, 2014	Blizzard	N/A	N/A	



MONROE COUNTY HAZARD MITIGATION PLAN UPDATE Worksheet #3 - NFIP Floodplain Administrator Questionnaire



Please complete responses below and :	send electronic Word version by August 28, 2015 to
	Tony Subbio
Phone: 717-545-3580	E-mail: tony.subbio@tetratech.com

Municipality:	
NFIP Floodplain Administrator Name/Title:	

Flood Vulnerability Summary

- 1. Does the municipality maintain lists/inventories of properties that have been flood damaged? If so, does this inventory identify property owners who are interested mitigation (e.g. elevation acquisition)?
- 2. Characterize/quantify the number of structures damaged during Floyd, Irene, Sandy or other events. If possible, can you provide a table of these structures indicating the number of residential / commercial / industrial?
- 3. Do you make Substantial Damage estimates, and how many were declared for Floyd, Irene, Sandy or other events?
- 4. How many are interested in mitigation (elevation or acquisition), and how many are currently in the process of mitigation?
- 5. What is the funding source(s) for those being mitigated (e.g. property owner, flood insurance and ICC, grant funding)?

Resources

- Are you the sole person assuming the responsibilities of floodplain administration, or do you have other staff or use contract staff if needed?
- 7. Provide an explanation of the NFIP administration services and functions you and your department provide (e.g. permit review, inspections, damage assessments, record-keeping, GIS, education and outreach).



MONROE COUNTY HAZARD MITIGATION PLAN UPDATE Worksheet #2 - Municipal Capability Assessment



onses below and send electronic Word version by August 28, 2015 to: Tony Subbio

Municipality:

1. Planning and Regulatory Capability: Please indicate whether the following planning or regulatory tools and programs are currently in place or under development for your jurisdiction by placing an "X" in the appropriate box, followed by the date of adoption/update. Then, for each particular item in place, identify the department or agency responsible for its implementation. In addition, indicate the code chapter, and name of plan including any explanation of authority in the right-most column.

Who can assist with completing this table: Municipal Planner, Clerk, Code Official. Refer to your municipal codes and ordinances, Master Plan.

Tool / Program (code, ordinance, plan)		Authority	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan				
Capital Improvements Plan	1			
Floodplain Management / Basin Plan				
Stormwater Management Plan				
Open Space Plan				
Stream Corridor Management Plan				
Watershed Management or Protection Plan				
Economic Development Plan	ĺ			
Comprehensive Emergency Management Plan				
Emergency Operation Plan				
Post-Disaster Recovery Plan				
Transportation Plan	ĺ			
Strategic Recovery Planning Report				
Other Plans:				
Regulatory Capability				
Building Code				
Zoning Ordinance				
Subdivision Ordinance				
NFIP Flood Damage Prevention Ordinance				
NFIP: Cumulative Substantial Damages				



MONROE COUNTY HAZARD MITIGATION PLAN UPDATE Worksheet #4 - Mitigation Action Review Worksheet for

HMP. I in the 2011 tified See the 'Responsible Party' Planner, OEM Coordinator). following table to indicate progress and next steps can provide you information about past mitigation action in the 2011 HMP (e.g., DPW, Engineer, Code possible.

use the failed as po

in the table below which identifies







solicit "Mutual Aid"



MONROE COUNTY HAZARD MITIGATION PLAN UPDATE

Worksheet #5 - Capability Assessment and Plan Integration

send electronic Word version by August 28, 2015 to

Municipality:

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. We would like to gather an understanding of your community's progress in plan integration, as well identify potential integration opportunities that your community may pursue in the future.

Who can assist with completing this table: The HMP main point of contact should discuss with the Engineer, Clerk, Mayor/Administrator, Planner, CFO

	Applicable Department/Agency Planning Planning Planning Planning Does your municipality have a Master/Comprehensive Plan (land-use plan), or are you currently working on an update of your		act);
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MONROE COUNTY HAZARD MITIGATION PLAN UPDATE Worksheet #6 - Potential New Development

F

Please complete responses below and send electronic Word version by August 28, 2015 to: Phone: 717-545-3580

Municipality:

or .							
Please indicate any recent development within your community from 2010 to present. Additionally, please indicate known or anticipated major residential and/or commercial development and major infrastructure development that are identified for the next five (5) years in your community.	Description/Status of Development						
dditionally, please dentified for the ne	Known Hazard Zone(s)	ant			ive (5) Years		
1 2010 to present. Ac	Address and Block/Lot	Recent Development from 2010 to Present			elopment in the Next F		
your community fron I major infrastructure d	# of Units / Structures	Recent Developm			Known or Anticipated Development in the Next Five (5) Years		
levelopment within al development and	Type (e.g. Res., Comm.)				Kno		
Please indicate any recent d residential and/or commercia	Property or Development Name						



MONROE COUNTY HAZARD MITIGATION PLAN UPDATE Worksheet #7 - Hazards of Concern Evaluation



and the second s	the state of the s
Please complete responses below and s	send electronic Word version by August 28, 2015 to
	Tony Subbio
Phone: 717-545-3580	E-mail: tony.subbio@tetratech.com

Who can provide information about events and losses: OEM Coordinator, Police, Fire, DPW, and

irds that you believe should be considered update:

6/15 2/15 8/25 8/25 8/15 2/0/15 11/15 12/25 12/25 12/25 3/26 3/26 4/26 5/26 5/26 5/26 12/26 8/26 8/26 8/26 8/26 8.M.C.B. 62/1.0 Wed 10/21/15 Thu 11/19/15 Mon 6/15/15 Wed 12/16/15 Mon 6/29/15 Wed 10/14/15 Mon 1/25/16 Mon 8/17/15 Mon 6/15/15 Mon 6/29/15 Wed 9/23/15 Mon 12/14/15 Mon 1/25/16 Wed 8/26/15 Wed 9/23/15 Wed 7/29/15 Med 7/29/15 Monroe County, NY Hazard Mitigation Plan Update Schedule Thu 8/11/16

SIGN-IN

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Kickoff Meeting

Wednesday, July 29, 2015 | 9:00 a.m. - 11:00 a.m.

NAME	AGENCY/ORGANIZATION	E-MAIL	TE.
William Platt	William Platt American RED CROSS	William. Platta Red Cross-ong 585-24 4778	BLAH-142-585 P
Dava Kestar	RGRTA	clkester@myrts.com 585-654-0219	m 585-654-031
Alysse Stehli	Tetra Tech	21458-34e M. Oyderatech. Cap 717-545-358	717-545-3580
	Terra Toch	two w. Subbroant Heaterhouse 717-545-3458	Dr. 717-545-35x
Mike Lisson	Mike Lisson Village of Hilton	m. Kee h. Hoom, or	585 392 4149
JONY LAFOUNTAIN	Town of AENFIELD	(AFOUNTAIN & PENKEY, DAY 340-8631	340-8631
TKen Seinfred	Cites Righted Town of Richard	9 Ser & face 2 December on SBS-203-0770	585-203-0770
John Mortellings	911 Center	WIN Class Omeracon 25 58-08-2007	JE-58-787
Michelle vibrs	MICHELLE VIERS COUNTY DES	MICHELLEVIRES MANEGERSANIA SEL	S85 - 763 - 7523
RICH VERDOUNS	RICH VERDOUN MC DUB SAFETY CONIN	RVERZODUM COMONICO COUNTY 585-733-3682	- 585-733-3892 V
FRITZ MAY	FRITZ MAY WILLES OF FAIRBRET	Phy & Parnorthy. con 585-421-3209	(585-421-3205)
Row Been	O. OFA	RREENE O GOEN MILEN	1/17-117-55
Mike Sayers	Public Health	out.	753-5)29
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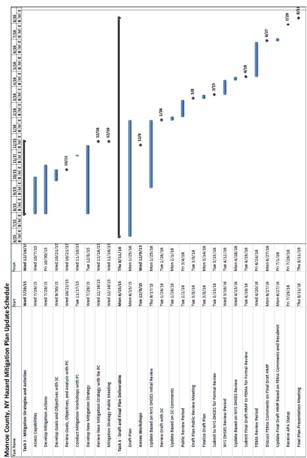


SIGN-IN MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Kickoff Meeting

Wednesday, July 29, 2015 | 9:00 a.m. - 11:00 a.m.

NAME	AGENCY/ORGANIZATION	E-MAIL	TEL.
Shu Delosa	INC FIVE BUREAU	5dc 105 a D Monne County god 585-195 3150	585-195 3150
KICHARD TRALY	H	Beienton Fire ricke townoforst.com 585-739-995	585-739-995
Tom Gooding	Tom Goodin Mc Sannins	4000 him @ mongerous 757-2032	757-2032
Raisbord Grellwing	MC DES	rgselfmires@ wonenecounty, gov 753-7541	753-7541
Kelly Cline	Town Village of P. Horbad	K Cline @ launofill+stand and	2466350
Jenniter Corber	mèsob	ic utley @ marvecourt, sou	
Jennifir Kuse	MCIS	JUUSSE MOLDERAUMP gr. X31774	431774
Michael Grundino Airport	Airport	Majardino @ wonescony gos	437158
Kick Parsons	Kirk Parsons Time Warner Coble	Kirk. Parsons Oto culto can The-1731	, 156-1731
JAKE Swingly	Villige of Webster	JSWINGLYE Bilkicofueto 15: Pay	Cort 281-860Z
Bill Putt	MODES	5 Puttername Countygo 753-788	757-788
Brus Brusa	Town of Chiri	BOSTELING 2000 (4) W. 260 889-2630	889.7630
Lin Cole		I cole @ marriacout 15.	153-7501
IN KEEF	T of Bellewy	tin KERF Connot Bluffer 10tG 7845223	5227486 22
MANK Levertus KI	Meder	ALGERCATHING MAN LOS COURT, GAY 753-38PL	1 753-38R







SIGN-IN

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Kickoff Meeting

Wednesday, July 29, 2015 | 9:00 a.m. - 11:00 a.m.

NAME	AGENCY/ORGANIZATION	E-MAIL	TEL.
LYNN DALEY	RIT	Modrinsspirt, aby 475-7812	718L-5Ch
Nawn Fork	Town of the!	dfork a transf (si): ng 849-6111	849-6111
Gregory D. Merrick	Gregory D. Merrick Town of Irondegueit	gmerricke irondequoit, mg 336-6097	org 336-6097
NAVEL SPEEDING	Villago of Churchuille	MAYOR WAYAR @ CARCATURE not 293-3730	net 293-3720
	Village of H. Hay	dow@h. 140 ny org 392-9633	392-9633
KABO Smith	Mews	Kino, Sant @ Menn. com 261 2741	241 2341
Think Massinell	Much Massian Town of Howeverna	Consessatule House Tr 300 359-7008	359-7008
Rob BowHillier	Rob Bartillier Town of Webster	rbortillier DC: waster 12.45	74.45
Time Guson	Honos Courty 9111	tracton Houteccooption 279-1144	1 279-1144
	MON POE COUNTY PURELLC SAFETY	MOLLINITY MONTOCOUNTY, 90V 753-1812	2181-856
And Sassa	MC DES	a Sinsay Junsua Lus	25-768
Lan brossetti		Crowsseth emonseement and	X:347/4
They Per	HOOEM	From parameter county and	2186.
AL WAGER	NATIONAL GRID	PAUL. HAZMERCZAKE nationslyid-com	Aprid-com
Jan. Renze	Rocheste Fire	rener je city do do de ser 3893	SS 3843
Knotra Dauberth MCOEM	Mesem	Followsherty Gramseant, and #53. S.	# 3. SE2. S



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For Immediate Release Monday, July 27, 2015

MONROE COUNTY TO HOST PUBLIC MEETING ON HAZARD MITIGATION PLAN

Monroe County's Office of Emergency Management will host a public meeting to discuss hazard mitigation and the planning process on July 29, 2015 from 6:00-7:00 p.m. at the Monroe County Office of Emergency Management located at 1190 Scottsville Road.

The County has begun updating its Hazard Mitigation Plan (HMP) which documents the County's vulnerability to hazards and its strategy to reduce vulnerability. The Hazard Mitigation Planning Committee will also meet from 9:00-11:00 a.m. at the Monroe County Office of Emergency Management on 8/26, 9/23, 10/20, 11/19, and 12/16.

A full meeting schedule of the Hazard Mitigation Planning Committee is available at www.monroecountyhmp.com. For more information contact Frederick J. Rion, Jr., Emergency Preparedness Administrator, at 753-3810.

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Media Inquiries, contact: Department of Communications at 753-1080



MEETING NOTES

Date	July 29, 2015	Time	6:00 p.m. – 6:15 p.m.
Location	Monroe County Office of Emergency Manager	ment, Ro	chester, NY
	Frederick Rion, Monroe County Office of Eme	rgency M	lanagement (OEM)
Attendees	Shaun Sharp, Monroe County Department of	Public He	ealth
Attendees	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)		
	Alysse Stehli, Tetra Tech		

Purpose

The purpose of this public meeting was (1) to provide information about the Monroe County Hazard Mitigation Plan (HMP) update, planning process, and public engagement opportunities to residents of Monroe County; and (2) to obtain public input on the natural hazards that affect the County, the hazards' associated problems, and possible solutions.

Discussion Points

Although public notice of the meeting was distributed via (1) e-mail invitations sent to the towns, villages, adjacent counties, and other stakeholder groups associated with Monroe County; (2) advertisements broadcast throughout the community, and (3) via the Monroe County OEM's Facebook page, no County residents attended the meeting, Mr. Rion, Mr. Subbio, and Ms. Stehli waited until 6:15 p.m. to verify that no County residents would be in attendance at the meeting, Mr. Rion, Mr. Subbio, Ms. Stehli, and Mr. Sharp also discussed the information that the Department of Public Health could contribute to the HMP, with a particular emphasis on public health impacts from natural hazards (for example, disease outbreaks from sewage backflows after a flood, and extreme cold health issues).

Next Steps

Mr. Rion and other Planning Committee members will promote the project website, which will contain information about the HMP, planning process, and outreach opportunities such as a Clitzens Preparedness Survey. All future public meetings will continue to be advertised by multiple methods to encourage resident participation in the HMP update.



AGENDA

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Public Informational Meeting Agenda

Wednesday, July 29, 2015 | 6:00 p.m. – 7:00 p.m.

1.	Welcome and Introductions
2.	Project Overview
3.	Hazard Mitigation Planning Process
4.	Community Rating System (CRS) Program
5.	Stakeholder Participation and Community Engagement
6.	Project Schedule Review
7.	Next Steps
8.	Questions







Agenda

- Welcome and Introductions
 Project Overview
 Hazard Mitigation Planning Process
 Community Rating System (CRS) Program Stakeholder Participation and Community

- Statemorer Participation
 Engagement
 Project Schedule Review
 Next Steps
 Questions

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Project Overview

- What is hazard mitigation?
 - Any action taken to help reduce or eliminate long-term rin caused by hazards or disasters
 What are some examples of hazard mittgation?
 Planning and regulations
 Infrattructure maintenance
 Acquastion of opporty in the floodplain
 Education and outreach

- Project Purpose
- Project Benefits
 Demonstrate lo

Project Overview (Continued)

Welcome and Introductions

Focus and Concerns

Agency/Organization or Municipality of Residence

- Serve as a blueprist for reducing the County's hazard winerability
 Become eligible for Federal Emergency Management Agency (FEMA) and other federal grant funding.

Project Overview (Continued)

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- Project Objectives
 Conduct a thorough disaster data

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Hazard Mitigation Planning Process

- Organize resources and build the planning team
 Use of existing plans, studies, and reports
 Comprehensive team of municipal representatives and
- stakeholders
 Develop the Plan's risk assessment

- For both natural and human-caused hazar
 Assess capabilities
 Plans/regulations and administrative, fina capabilities

8

(3)

Hazard Mitigation Planning

- Process(Continued)
 Develop the mitigation strategy
 Evaluate and update goals and objectives
 Identify and prioritize actions and projects

- Meentily and prioritize actions and projects
 Determine plan maintenance process
 Ensure the HMP remains a "living document"
 Obtain HMP approval and adopt the Plan
 New York State Division of Homeland Security and
 (Imergency Services (NYS DHSSS) and FIGMA appro

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Community Rating System Program

- Biggert-Waters 2012

 Flood insurance premiums are going to go up.
 Homeowners' Flood insurance Affordability Act 2014

 Fremiums are going to go up, but not as quickly.
 Community Rating System (CRS)

 Offers discounts to communities with strong floodplain management programs

- Offers discounts to communities with strong flood management programs
 Class 10 to Class 1 5% discount for each
 The Town of Greece already participates (Class 8)
 Credit for Floodplain Management Plan

Stakeholder Participation and Community Stakeholder Participation Engagement How can you participate? Project Website *mex.micrososonimes.com - Culturn's Prepared Prince Survey - Public Meetings * In Identification Meeting * Risk Assessment Review * Missignion Instings Review * Plan Draft Review * Plan Draft Review

- - Planning Committee Meetings
 All meetings are open to the pub

Project Schedule Review

ture 29, 2023	Project Ectoff Meeting	
Wy 25, 2015	Public Informational Meeting	
Wy to September 2015	Rick Assessment Conducted	
September 2015	Risk Assessment Public Review	
Wy to December 2015	Draft Mitigation Strategy	
December 2005	Mitigation Strategy Public Review	
Wy 2025 to March 2026	Develop the HMF Draft	
March 2016	Public Meeting to Neview Draft	
March 2016	Submit Draft to NYS DHSES for Review	
Sprit 2016	Submit Druft to FEMA Region 7	
So later than July 2016	"Adoption Pending Approval"	
April 1016		

Next Steps

- Hazard Analysis and Risk Assessm
 Citizen's Preparedness Survey
 Capability Assessment

(8)



Questions?



Thank you for your time!

Contacts

Fred Non frion@monroecounty.gov (585) 753-3810



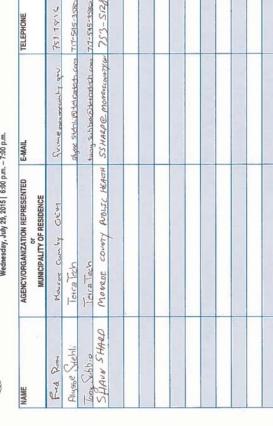
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SIGN-IN

Wednesday, July 29, 2015 | 6:00 p.m. - 7:00 p.m.













Date	August 18, 2015	Time	9:00 a.m. – 10:00 a.m.
Meeting	Municipal Meeting – 1 of 6		
Location	Monroe County Office of Emergency Manager	ment, Ro	chester, NY
	Kristina Daugherty, Monroe County Office of E	mergeno	y Management (MCOEM)
	Greg Emerson, Village of Honeoye Falls		
	Charlie Johnson, Village of Honeoye Falls		
Attendees	Felipe Hernandez, Rochester Fire Department	t	
Attendees	Steve Batz, Rochester Fire Department		
	Jamie Renner, Rochester Fire Department		
	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)		
	Emily Slotnick, Tetra Tech		

Purpose

The purpose of this meeting was to provide an opportunity for Monroe County and municipal staff and Tetra Tech. Inc. (Tetra Tech) staff to discuss the planning process, and for Tetra Tech staff to gather information from County and municipal representatives.

Discussion Points

This section summarizes each discussion point addressed during the meeting.

Major Incidents and Their Impacts

In the City of Rochester, ice storms and wind storms that cause power outages are a major concern. The City generally sees little to no damage from blizzards. Some areas may have a potential for flooding, but flooding has not been a problem in the City since the construction of the Mt. Morris Dam in the 1950s.

In the Village of Honeoye Falls, flooding is a problem. The Honeoye Creek water levels rise often, causing the bank to erode. Ice jams cause overflows as well. The Village is relatively flat. Much of their flooding problem is a result of an inadequate stormwater management system. Rain events in recent years have seemed more intense than in the past. The Village's sanitary sewer system was built in 1938, and approximately 50% of the system has been upgraded since then. The system has inflow problems, which result in sewer backups into homes. Village officials have been in discussions with residents about installing backflow preventers. The July 7, 2015 microburst event downed power lines throughout the Village, and took approximately 1 week to clean up.

Problem Areas

County staff identified two areas particularly vulnerable to flooding: the area along the Black Creek, and an area in

PAGE 3 OF 3



MEETING NOTES

- . Municipal representatives will complete the set of worksheets. Tetra Tech staff will remain available to answer questions or provide assistance.
- Municipal representatives will identify organizations and events for outreach regarding the mitigation
- Municipal representatives will provide a list of problem areas to Tetra Tech.
- The next Planning Committee Meeting will be conducted at the Monroe County OEM on August 26, 2015.

With no further questions, Mr. Subbio and Ms. Slotnick thanked attendees for their time. The meeting concluded at 10:00 a.m.



MEETING NOTES

Several areas in the City are often closed due to natural hazards. In Honeoye Falls, Ontario Street and Paper Mill Street frequently have flood problems. City and Village representatives will provide a list of these and other vulnerable locations to Tetra Tech. Mitigation actions can then be developed to address these problem areas.

Projects Completed

Monroe County is a StormReady County under the National Weather Service's StormReady program. Sky WARN training has been conducted in the County. Village representatives requested that more trainings be conducted throughout the County

In Honeoye Falls, a group of residents on Creekside Drive built a dirt berm along the Honeoye Creek to prevent flooding in their properties. The Village partnered with National Grid to address tree trimming and tree removal more aggressively. Preventative tree trimming and removal has helped reduce the frequency of power outages in the Village. Likewise, the Village has developed a list of trees that can be planted near power lines.

In addition, the Village conducts a sump pump disconnect program. In 2008 and 2009, the Village conducted inspections in every home in the Village to check the sewer connections. The Village requires that sump pumps be disconnected from the sewer system. Approximately 400 of the Village's 800 homes had that connection in place.

There were no questions on the worksheets

The County Department of Environmental Services conducts a program called "Larry the H_2O Hero," which provides information geared towards children about water quality and stormwater management issues.

The City of Rochester has a website, a 3-1-1 information line for residents to report and request information, and a cable channel dedicated to City issues. The City also sponsors a Code Red dialogic system. Landlines are automatically entered into the system; cell phones can be added voluntarily. The City has a Community Emergency Response Team (CERT) program in the high school, conducts cooking safety classes for senior citizens, and conducts regular fire prevention and fire safety programs in schools.

The Village of Honeove Falls has a website and Facebook page, which are the main avenues for communicating with the public. The Citizen's Preparedness Survey developed for the mitigation planning process was linked on the Facebook page. The Village does not conduct any outreach specific to the floodplain. Community meetings were conducted during the Village's Comprehensive Plan update.

Next Steps

Mr. Subbio reviewed the following next steps with attendees:

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- . County staff will reach out to Charlie Knauf in the County Department of Health to request his expertise on flooding issues in the County.
- County staff will reach out to the Irondequoit Bay Technical Staff and professors at SUNY Brockport to solicit their participation in the planning process
- Municipal representatives will provide copies of or hyperlinks to their floodplain management ordinances to Tetra Tech.

PAGE 2 OF 3

SIGN-IN

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT MUNICIPAL Meeting

August 18, 2015 | 9:00 a.m. - 11:00



NAME	AGENCY/ORGANIZATION	E-MAIL	TEL.
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MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Municipal Meeting

Tuesday, August 18, 2015 | 9:00 a.m. - 11:00 a.m.







MEETING NOTES

Brockport has a tree maintenance plan and a tree board. Village Department of Public Works staff also oversees tree clearing. The Village does regular storm drain maintenance and clears catch basins. No sand is used for increased traction on the roads in the Village because the sand clogs the stormwater maintenance system.

Storm sewers in the three villages are regularly upgraded. All three villages are members of the stormwater coalition.

Questions on Worksheets

There were no questions on the worksheets

Outreach Conducted

Brockport advertises its brush pickup schedule in the Village newsletter.

Ms. Slotnick reviewed the following next steps with attendees:

- Municipal representatives will provide copies of or hyperlinks to their floodplain management ordinances to
- . Municipal representatives will complete the set of worksheets. Tetra Tech staff will remain available to
- Municipal representatives will identify organizations and events for outreach regarding the mitigation
- The next Planning Committee Meeting will be conducted at the Monroe County OEM on August 26, 2015.

With no further questions, Mr. Subbio and Ms. Slotnick thanked attendees for their time. The meeting concluded at 2:00 p.m.



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MEETING NOTES

Date	August 18, 2015	Time	1:00 p.m. – 2:00 p.m.
Meeting	Municipal Meeting – 2 of 6		
Location	Hilton Fire Department, Hilton, NY		
	David Miller, Code Enforcement, Village of Br	ockport	
	John Lapierre, Village of Brockport		
	Joe Lee, Mayor, Village of Hilton		
Mandage	Mike Lissow, Code Enforcement, Village of Hi	iton	
Attendees	Mike McHenry, Superintendent, Village of Hilt	on	
	Jackie Sullivan, Clerk, Village of Spencerport		
	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)		
	Emily Slotnick, Tetra Tech		

Purpose

The purpose of this meeting was to provide an opportunity for municipal and Tetra Tech, Inc. (Tetra Tech) staff to discuss the planning process, and for Tetra Tech staff to gather information from municipal rep

Discussion Points

This section summarizes each discussion point addressed during the meeting.

Major Incidents and Their Impacts

Attendees reported that many of the major events that affected the region did not affect Monroe County very much. Flooding and ice storms are the worst hazards for the three villages (Hilton, Brockport, and Spencerport). Ice storms are especially problematic because of the power outages they cause.

In the Village of Hilton, the area that is the most vulnerable to flooding is an area with an apartment complex, supermarket, and bank. Only the bank is in the floodplain.

In Brockport, Canal Street is often flooded with a few inches of water, which then drains soon after the rain stops. National Grid cut several trees away from power lines, but not well. The trees could become a problem after they

Hilton staff reported that the utility companies are not maintaining the power lines like they used to.

The Hilton Fire Department was relocated after Hurricane Frances in 2004. Hilton has installed watertight manholes, and is planning to improve the sewer infrastructure. The Village has also implemented tree-trimming and drainclearing programs.

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Municipal Meeting

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NAME	AGENCY/ORGANIZATION	E-MAIL	TEL.
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Date	August 19, 2015	Time	9:00 a.m. – 10:00 a.m.						
Meeting	Municipal Meeting – 3 of 6								
Location	Town of Chili Town Hall, Rochester, New York								
	Dawn Forte, Town of Chili								
Attendees	Mark Assini, Town of Gates								
Tony Subbio, Tetra Tech, Inc. (Tetra Tech)									
	Emily Slotnick, Tetra Tech								

The purpose of this Municipal Meeting was to provide an opportunity for municipal staff and Tetra Tech, Inc. (Tetra Tech) staff to discuss the planning process, and for Tetra Tech staff to gather information from municipal

Discussion Points

This section summarizes each discussion point addressed during the meeting.

Major Incidents and Their Impacts

Town representatives present at the meeting supplied information regarding major hazard incidents and the impact on their respective municipalities.

Mr. Assini stated that there seems to be more rain falling from "normal" rainstorms

Ms. Forte reported that the June 10, 2015 wind event knocked down many trees in the Town of Chili, particularly on Red Bud Road and the Chestnut Ridge area. Crews worked up to a week and a half to clear all of the debris fro the event. Rochester Gas and Electric (RG&E) is studying the installation of a new substation in either the Town of Chili or the Town of Henrietta. This substation would benefit the Towns of Chili, Gates, and Henrietta

Ms. Forte and Mr. Assini both reported that RG&E does not have the resources required to quickly clean up storm debris. Months have passed before RG&E crews removed trees that were leaning on power lines

Problem Areas

The attendees discussed the major problem areas in their respective municipalities.

Mr. Assini described the problems that the Town of Gates has been having with Federal Emergency Management Agency's (FEMA) Flood Insurance Rate Maps (FIRM), and the high cost of flood insurance for structures that are above the floodplain. He stated that the maps are grossly incorrect, but FEMA will not listen. Lloyds of London is offering flood insurance for certain properties in the Town at rates far lower than FEMA's. The Town does not have funding available to dedicate to restudying the hydraulics and hydrology of the Town. During heavy downpours, several areas of the Town of Gates experience culvert overloads, which fill with water and overflow into residents' yards. Mr. Assini left the meeting for a prior commitment at 9:10 a.m.

PAGE 1 OF 3



MEETING NOTES

Ms. Forte reported that the Town of Chili Town Hall has drainage issues, and the Town has stormwater management issues. Also, the Town is susceptible to flooding from the Black Creek. Black Creek goes under Beaver Road Ballantyne Road and sometimes floods the roadway. Flooding is not as bad since a gate was installed on the Genesee River, and the Mt. Morris Dam was built. The Indian Hill subdivision is flooded during very heavy rain

The Town of Chili has seven railroad crossings. Both Amtrak and CSX have tracks through the Town, travelled by both commuter and freight trains. The trains are sometimes so long that emergency vehicles cannot access parts of the Town when there is a train on the track. Trains run through the Town every 30-60 minutes. Ms. Forte believes that the Village of Fairport and the Village of East Rochester also have problems with the trains

The bridge over I-490 becomes icy often during the winter

Traffic backs up from the intersection of Chili Avenue and Union Street. This intersection frequently experiences car

The Town of Chili is diligent with clearing snow from the roads, but the Town sometimes runs out of salt to treat the roadways. The tax cap mandated by the State makes it very difficult to purchase adequate supplies. The salt distributors have run out of salt in the past as well.

There are many ash trees in the Town, which are vulnerable to the emerald ash borer. The Town hires a contractor

Projects Completed

Ms. Forte summarized completed mitigation projects completed in the Town of Chili.

The Town of Chili has had power outages because of extreme heat events. Backup power generators have been installed at the Town Hall and Highway Garage. There is probably a generator at the fire department too.

The senior center in the Town of Chili is designated as an emergency shelter for the American Red Cross. The Town has also established two Points of Distribution (POD): Father's House and Roberts Wesleyan College. Agreements are in place with these facilities, and are updated annually. The Town is building a new community center

Chili's Highway Department maintains the culverts in the Town. The Town has completed no buyouts or relocations

Chili maintains an emergency plan, a comprehensive plan, and a farmland preservation plan.

Questions on Worksheets

Ms. Forte had no questions on the worksheets.

Outreach Conducted

Ms. Forte described mitigation outreach initiatives conducted by the Town of Chili

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The Town website is the primary source of outreach to residents; the Town posts road closures on the site. The Supervisor and the Recreation Department have Facebook pages. A quarterly newsletter is distributed to all homes in the Town. Each year, the Town hosts Chili Fest, a large community event.

PAGE 2 OF 3



MEETING NOTES

Next Stens

The following next steps were discussed at the meeting:

- . Municipal representatives will complete the set of worksheets. Tetra Tech staff will remain available to
- . Municipal representatives will identify organizations and events for outreach regarding the mitigation
- The next Planning Committee Meeting will be conducted at the Monroe County Office of Emergency nagement (OEM) on August 26, 2015.

With no further questions, Mr. Subbio and Ms. Slotnick thanked Ms. Forte for her time. The meeting concluded at



WONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT



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Dawn Fork	Town of chili.	Sork a four about, 019 889 6111	1119-68
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Date	August 19, 2015	Time	1:00 p.m. – 2:45 p.m.							
Meeting	Municipal Meeting – 4 of 6	Municipal Meeting – 4 of 6 Village of Churchville Office, Churchville, New York								
Location	Village of Churchville Office, Churchville, New									
	Roberta Ames, Village of Churchville									
	Meghan Lodge, Clerk/Treasurer, Village of Churchville									
	Diane Pusateri, Trustee, Village of Churchville									
	Paul Robinson, Public Works Superintendent, Village of Churchville									
Attendees	Nancy Steedman, Mayor, Village of Churchville									
Attendees	Lyle Warren, Zoning Board Administrator, Village of Churchville									
	Deborah Campanella, Town of Riga									
	Robert Panik, Town of Riga									
	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)								
	Emily Slotnick, Tetra Tech									

The purpose of this Municipal Meeting was to provide an opportunity for municipal staff and Tetra Tech. Inc. (Tetra Tech) staff to discuss the Monroe County hazard mitigation planning process, and for Tetra Tech staff to gather information from municipal representatives.

Discussion Points

This section summarizes each discussion point addressed during the meeting

Major Incidents and Their Impacts

Representatives from the Village of Churchville and the Town of Riga present at the meeting supplied information regarding major hazard incidents and the impact on their respective municipalities.

No major incidents came to mind for the Churchville representatives.

In the spring of 2015, a wind event downed branches on Attridge Road in the Town of Riga. The event caused a power outage. The Highway Department cleaned the debris during off hours.

Problem Areas

The Town and Village representatives discussed the major problem areas in their respective municipalities.

Both the Village of Churchville and the Town of Riga reported that power outages from wind, ice, heavy snow, or

The Village of Churchville has flooding and erosion problems along the Black Creek. Erosion is a problem along Willowbank Drive. On Creekside Drive, floodwater from the rising creek gets close to houses but does not cause damage. All roads that intersect the Black Creek have issues at the crossings.

PAGE 1 OF 3

PAGE 3 OF 3



MEETING NOTES

Both the Town and Village conduct public board meetings that include an opportunity for public comment. The Village and the Town conduct joint meetings to discuss community issues. They send a survey to residents every 5 years in preparation for the joint Comprehensive Plan update. Both municipalities maintain informational pamphlets and a community bulletin board at their offices. There is an active SCORE chapter in the area; chapter meetings are very well attended.

Next Steps

The following next steps were discussed at the meeting:

- . Municipal representatives will complete the set of worksheets. Tetra Tech staff will remain available to
- · Municipal representatives will identify organizations and events for outreach regarding the mitigation
- The next Planning Committee Meeting will be conducted at the Monroe County Office of Emergency

Management (OEM) on August 26, 2015.

With no further questions, Mr. Subbio and Ms. Slotnick thanked attendees for their time. The meeting concluded at



MEETING NOTES

In addition, trains travel through the Village all day (approximately 65 trains per day), but the Village does not know what is being carried on the trains. CSX has repaired train crossings in the Village. A mill storage area is located in the middle of the Village. There is a potential for explosions at this area, which could also be a secondary hazard from a train derailment nearby. There are also active brownfields sites in the Village.

The Town of Riga has flooding problems. The Black Creek floods Attridge Road near the bridge, and also floods Burnt Mill Road and Palmer Road South. The Hotel Creek floods north of Robertson Road; the water gets close to houses but does not necessitate evacuations.

In addition, large trees along Robertson Road at the corner east of Burnt Mill Road are leaning towards the road

Attendees summarized mitigation projects that have been completed in the Village of Churchville and the Town of

Churchville maintains an aggressive tree-trimming program to prevent power outages from downed trees. The Village code was changed a few years ago to not require basements. The Village built a new power substation, but would like to get power lines across I-490 and across the Black Creek. Routine maintenance of swales and catch basins is performed to ensure stormwater management. The Village maintains its sewer pump stations in good condition; pump stations also have backup power generators. The Village is also updating its codes.

In Riga, the Highway Department continuously maintains and upgrades culverts. The Town is encouraging National Grid to bury power lines. The Town conducts outreach to the school regarding emergency preparedne

The Town and Village are updating their joint comprehensive plan. Both maintain brush cleanup programs to keep stormwater management areas clear.

The Black Creek Watershed Coalition just completed a watershed management plan that is awaiting State approval

Questions on Worksheets

Attendees had no questions on the worksheets

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Village and Town representatives summarized their respective hazard mitigation outreach initiatives

In the Village, storm drains are stenciled with the logo from the Larry the H2O Hero program conducted by the County Stormwater Coalition. Brush pickup is advertised on the Village website. The Village sends a newsletter to residents twice each year, but does not include much information on prevention activities. Village officials interact directly with residents often. The Village tried conducting workshops on home security, but no residents attended. Information is sometimes included with utility bills. During special events, the Village will set up a table for residents

The Town of Riga sends a bimonthly newsletter to residents, which contains regular articles on how to clean up roadways, fire safety, and pool safety.

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT

	1:00 p.m 3:00 p.m.
eting	1:00
Municipal Meetir	August 19, 2015
	Wednesday.

NAME	AGENCY/ORGANIZATION	E-MAIL	TEL.
EMILY SUTIVILE TOTAL TELL	Terres Tales	Eminiscomice Parentalian 808 28784	H.402 808 2
Paul Adoussey	Village of Churckyelle South	Peul Ocherchuille, not	585-243-3366
Dane DUSTRY	Dare Dusater Wilder of Muchwill , Tuste Dary Dary 18 120	DANG CONTRACTOR MANUAL DE	585-383-124
Robert Ames	Robert Ames Village of Murchy: 11e	1 + 4 meso rudiester, 11 cm	SE-383733
Lyle Warren	すると カルンングラングのかっ よっちいころ	1-16. Warrendon	585-469-
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NAMON STEEDMAN	MAIRISTEEDMM VILLEGE OF Churchuille MAYORNANCY CHURCHNILE, NET	MAYO RNANCY @ CHURCHY	293-372D
Deborah Campenella	Deboral Campenella Town of RIGA	dcampanellapfontiernet, net 746-19	et, net 744
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Date	August 20, 2015	Time	9:00 a.m. – 10:30 a.m.							
Meeting	Municipal Meeting – 5 of 6									
Location	Town of Penfield Town Hall, Penfield, New Yo	ırk								
	Jeff McCann, Town of Irondequoit									
	Gregory D. Merrick, Town of Irondequoit									
	Tom Tette, Town of Penfield									
	Greg Seigfried, Town of Perinton									
Attendees	Eric Williams, Town of Perinton									
	Geoff Benway, Town of Webster									
	Rob Boutillier, Town of Webster									
	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)									
	Emily Slotnick, Tetra Tech									

The purpose of this Municipal Meeting was to provide an opportunity for municipal staff and Tetra Tech, Inc. (Tetra Tech) staff to discuss the Monroe County hazard mitigation planning process, and for Tetra Tech staff to gat information from municipal representatives.

Discussion Points

This section summarizes each discussion point addressed during the meeting.

Major Incidents and Their Impacts

Town representatives present at the meeting supplied information regarding major hazard incidents and the impact on their respective municipalities.

Superstorm Sandy downed some power lines in the Town of Penfield.

In the Town of Webster, snow storms are the most significant hazard, but no snow events stood out more than others. However, major ice storms in 1991 and 2003 did stand out as particularly destructive.

Following a 1991 ice storm, Rochester Gas and Electric (RG&E) patched the power system but never came back and fully repaired the system. This has led to ongoing power disruptions.

The town representatives discussed the major problem areas in their respective municipalities.

Frequent flooding in the Town of Webster is the result of stormwater runoff that overwhelms the creeks and streams causing flooding problems that only occur along the waterways. Flooding in the Town of Irondequoit can be attributed to rising water levels from the Irondequoit Bay, Lake Ontario, and the Genesee River. All three municipalities represented at the meeting have trouble spots where debris regularly blocks stormwater management infrastructure

PAGE 1 OF 3



MEETING NOTES

In the Town of Penfield, the Panorama Plaza is repeatedly flooded, though the property is not in the floodplain. The U.S. Army Corps of Engineers examined the possibility of building a levee or floodwall around the property, but it was not built. The Town contains some subdivisions from the 1950s, with aged and undersized stormwater management infrastructure. Storms over the last 5 years have overwhelmed the system.

In the Towns of Webster and Penfield, the power supply from RG&E is not reliable. Power was lost in the Hard Road/Holt Road corridor three times during the week of August 18-20, 2015 alone.

Erosion on the Irondequoit Bay is a problem in the Town of Irondequoit, particularly at Point Pleasant and on Newport Road. Likewise, ponding of water is a problem in Oak View north of Ridge Road near the park.

In Perinton, flooding comes from the Erie Canal. The canal broke in the 1970s and impacted many homes. The Flood Insurance Rate Maps (FIRM), which are from 2008, do not reflect the risk from a canal failure. The canal is drained and inspected by the State every fall.

Perinton owns and maintains the Southern Hill Retention Pond Dam, which could fail. Penfield has an inundation study for the Willow Pond Dam. The Town of Webster is currently conducting an inundation study on the Brookwood

Also, the Town of Perinton is concerned with the shipments of crude oil on the rail lines that pass through the Town. There was a derailment in the last few years, spilling 7 carloads of soybeans

A possible floodplain mapping problem in that there is a 1-foot difference in the base flood elevation on either side of

Projects Completed

Town representatives present at the meeting summarized mitigation projects that have been completed in their respective municipalities.

The Towns' Highway Departments clear trees over sections of power lines and maintain stormwater management

The Town of Irondequoit has regulated against connecting sump pumps into residences' sewer connections Enforcement is challenging. All three municipalities have camera equipment to inspect the sewer lines, and can detect illegal connections during those inspections.

Perinton picks up brush (all except grass) from homes on a weekly basis. The Town of Irondequoit conducts a brush pickup every 1-3 months, but does not pick up leaves. The Town of Webster picks up leaves from homeowners in

The Town of Irondequoit has installed gabia on Seneca Road and Point Pleasant Road in the last 10 years

The Town of Irondequoit installed generators at each of the pump stations. Penfield Fire Department pumps the excess water, some of the newer stations have generators. In the Town of Webster, 10 of the 22 pump stations have generators. Perinton has installed generators at 10-12 of the 32 pump stations; all of the major high-flow stations have generators. The Perinton Public Works Facility has a generator. Town Halls, police department buildings, and fire department buildings have generators. The Irondequoit senior center probably does not.

Ouestions on Worksheets

Attendees had no questions on the worksheets.

PAGE 2 OF 3



MEETING NOTES

Next Steps

The following next steps were discussed at the meeting:

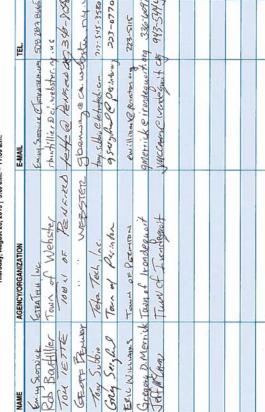
- Municipal representatives will complete the set of worksheets. Tetra Tech staff will remain available to
- . Municipal representatives will identify organizations and events for outreach regarding the mitigation
- The next Planning Committee Meeting will be conducted at the Monroe County Office of Emergency nagement (OEM) on August 26, 2015.

With no further questions, Mr. Subbio and Ms. Slotnick thanked attendees for their time. The meeting concluded at

SIGN-IN

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT









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Date	August 20, 2015	Time	1:00 p.m. – 3:00 p.m.							
Meeting	Municipal Meeting – 6 of 6									
Location	Town of Brighton Town Hall, Rochester, New	Town of Brighton Town Hall, Rochester, New York								
	Mike Guyon, Town of Brighton									
	Chad Roscoe, Town of Brighton									
	Chuck Marshall, Town of Henrietta									
Attendees	Kelly Cline, Town of Pittsford and Village of Pittsford									
	Paul Schenkel, Town of Pittsford									
	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)									
	Emily Slotnick, Tetra Tech									

Purpose

The purpose of this Municipal Meeting was to provide an opportunity for municipal staff and Tetra Tech, Inc. (Tetra Tech) staff to discuss the Monroe County hazard mitigation planning process, and for Tetra Tech staff to gather information from municipal representatives.

Discussion Points

This section summarizes each discussion point addressed during the meeting

Mr. Marshall arrived near the end of the meeting. Tetra Tech staff interviewed him after the meeting to gather information related to the discussion points he missed. His responses are incorporated into the applicable sections,

Major Incidents and Their Impacts

The representatives present at the meeting supplied information regarding major hazard incidents and the impact on their respective municipalities. No major events stood out to the attendees, with the exception of Mr. Marshall who stated that snow events in the last 2 years seemed especially bad.

Problem Areas

The town representatives discussed the major problem areas in their respective municipalities.

Village of Pittsford has several railroad crossings. The Town of Pittsford has one crossing, and the Town of Brighton has three at-grade crossings. The main line runs through the Town of Pittsford. The Town of Pittsford and Village of Pittsford each have a few overpass crossings. Citizens are concerned about CSX's inspection program regarding those crossings. Dead trees along the railroad tracks could fall and block the tracks.

The electrical infrastructure fails often. Attendees reported having difficulty getting Rochester Gas and Electric (RG&E) personnel to maintain the infrastructure. RG&E's response to emergency incidents is slow; this was not an issue before the company was bought.

PAGE 1 OF 3



MEETING NOTES

The Town of Pittsford has a few flood-prone areas, but the Town has significantly reduced flooding by installing several detention and retention areas. The Town is a Municipal Separate Stormwater System (MS4) community with regional stormwater management facilities. In the Town of Brighton, flooding is more nuisance ponding.

In the Town of Pittsford, the Monroe County Water Authority tower may be leaking

In the Town of Henrietta, flood problems usually occur along Jefferson Road, Calkins Road, and Lehigh Station Road (where culverts go under the roadway). Power lines are buried for all development that occurred since the 1970s. There are five railroad crossings of the CSX lines on the west shore of the Town. The Lakeville, Livonia, and Avon Railroad have six crossing throughout the Town, but that line only sees one train each day.

Town representatives present at the meeting summarized mitigation projects that have been completed in their respective municipalities. All jurisdictions represented at the meeting have injected ash trees along roadways with an agent to prevent damage by the emerald ash borer.

The Town of Brighton regulates areas of steep slopes and water courses through an Environmental Protection Overlay District. The Town installed green infrastructure for stormwater management along Monroe Avenue, is restoring the Buckland Creek, and maintains the Evans Lane Bridge. Monroe County upgraded some culverts along Winton Road. New York State has made some stormwater management improvements to Monroe Avenue and Clover Street. Brighton has had good results with getting elevation certificates and amending the floodplain maps to remove structures from the floodplain.

The Town of Pittsford focuses on regular maintenance. The Town clears debris from the creeks in the Town, and just finished Evans Creek. The Town of Pittsford has established requirements for 50% open space for new development in their code, and 20-foot rear setbacks. Retention ponds are required in new developments. Much of the Town's mitigation activity is for stormwater problems through the MS4 program. The Town is installing a stormwater retention facility at the Highway Garage for the MS4 program. The Town is revising its comprehensive

Ouestions on Worksheets

Outreach Conducted

Representatives discussed the mitigation outreach initiatives conducted in their respective communit

The Town of Pittsford has a Town website, and sends eNews e-mails about events to approximately 4,000-5,000 email addresses (about 29,500 residents) 1-2 times per week. The Town publishes a quarterly newsletter sent to all homes in the Town. The Town Facebook page has over 600 likes. Direct mailings are sent to all residents about yard debris pickup, hazardous waste pickup, and major projects. The Town shares access to cable channel 12, and has a bimonthly column in the Brighton-Pittsford Post.

The Town of Henrietta has a website. Its Facebook page has 2,300 likes (out of 43,000 residents). A quarterly newsletter is sent to residents, as well as direct mailings to alert them about special projects

PAGE 2 OF 3



MEETING NOTES

The Town of Brighton Supervisor publishes a column in the local newspaper. The Town sends newsletters in spring and fall each year. The Town maintains a Facebook page that has over 600 likes out of 37,000 residents, and has a Twitter account. Several neighborhood associations in the Town have e-mail lists of their members; the Town coordinates with the associations to spread information. The Town also has a booth at the Farmer's Market.

The following next steps were discussed at the meeting:

- Municipal representatives will complete the set of worksheets. Tetra Tech staff will remain available to answer questions or provide assistance.
- Municipal representatives will identify organizations and events for outreach regarding the mitigation
- The next Planning Committee Meeting will be conducted at the Monroe County Office of Emergency Management (OEM) on August 26, 2015.

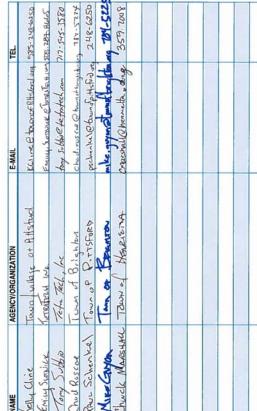
With no further questions, Mr. Subbio and Ms. Slotnick thanked attendees for their time. The meeting concluded at

SIGN-IN

1:00 p.m. - 3:00 p.m. August 20, 2015 | Thursday,

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT









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Date	August 26, 2015 Time 9:00 a.m 10:45 a.m.								
Location	Monroe County Office of Emergency Management, Rochester, NY								
	Frederick Rion, Monroe County Office of Emergency Management (MCOEM)								
	Tina Carson, Monroe County 9-1-1								
	Jason Kennedy, Monroe County Department of Environmental Services (MC DES)								
	Bill Putt, MC DES								
	Michelle Virts, MC DES								
	Tom Goodwin, Monroe County Department of Planning								
	John Ricci, Monroe County Department of Public Health								
	John Ricci, Monroe County Department of Public Health Shaun Sharp, Monroe County Department of Public Health								
	Jim Herbst, Monroe County Department of Public Safety								
	Justin Cole, Monroe County Geographic Information System (GIS)								
	Scott Smith, Monroe County Sheriff's Office (MCSO)								
	Richard Metzger, Monroe County Water Authority (MCWA)								
	Brad Smith, MCWA								
	Michael Slattery, Monroe County Department of Transportation (MCDOT)								
	Chad Roscoe, Town of Brighton								
	John LaPierre, Village of Brockport								
Attendees	David Miller, Village of Brockport								
	Dawn Forte, Town of Chili								
	Paul Robinson, Village of Churchville								
	Nancy Steedman, Village of Churchville								
	Fritz May, Village of Fairport								
	Mark Assini, Town of Gates								
	John Gauthier, Town of Greece								
	Kirk Morris, Town of Greece								
	Roland Osterwinter, Town of Henrietta								
	Mike Lissow, Village of Hilton								
	Greg Emerson, Village of Honeoye Falls								
	Charlie Johnson, Village of Honeoye Falls								
	Kerry Ivers, Town of Irondequoit								
	Gregory D. Merrick, Town of Irondequoit								
	Tom Tette, Town of Penfield								
	Mike Barker, Town of Perinton								

PAGE 1 OF 6



MEETING NOTES

Greg Siegfred, Town of Perinton
Erik Williams, Town of Perinton
Kelly Cline, Town/Village of Pittsford
Deborah Campanella, Town of Riga
Tom Mann, City of Rochester
Jamie Renner, City of Rochester
Felipe Hernandez, City of Rochester Fire Department
John Mostico, City of Rochester Police Department
Jackie Sullivan, Village of Spencerport
Will Barham, Village of Webster
Jake Swingly, Village of Webster
Jose Latalladi, American Red Cross
Heinz Diehl, Frontier
Kirk Basmajian, Frontier
Paul Kazmierczak, National Grid
Geoffrey Gugel, Rochester Water Bureau
Lynn Daley, Rochester Institute of Technology (RIT)
Cindy Gronwall, Iberdrola
Tony Subbio, Tetra Tech, Inc. (Tetra Tech)

Purpos

The purpose of the Planning Committee Meeting was to review the hazards of concern that will be analyzed in the Monroe County Hazard Mitigation Plan (HMP). This meeting aligns with the "Assess the Hazard" step of the mitigation planning process.

Discussion Points

This section summarizes each discussion point addressed during the Planning Committee Meeting.

Outreac

Mr. Rion reported that he spoke about hazard mitigation and the plan update at the Mayor's Association meeting. He has also been working with representatives of several County agencies on the data collection worksheets. Tetra Tech, Inc. (Tetra Tech) conducted a set of municipal meetings to gather information from municipal representatives. Representatives from several jurisdictions attended these meetings, many of whom had not participated in the planning process.

No other Planning Committee members reported conducting any outreach

PAGE 2 OF 6



MEETING NOTES

Review Results of Municipal Meetings

Mr. Subbio discussed the six Municipal Meetings that had been held between August 18 and 20, 2015.

Representatives from the Monroe County Office of Emergency Management (OEM) and 17 municipalities attended these meetings. Key points from the meeting discussions included the following:

- Power outages from downed trees are a major problem throughout the County
- Stormwater management issues cause flooding problems in many jurisdictions.
- Flooding from the Black Creek is an issue.
- Many homeowners have connected their sump pumps into their sewer connections, which overwhelms the sewage treatment infrastructure during periods of heavy rain.
- Trains carrying hazardous materials travel through several County jurisdictions each day. Municipal officials
 do not know the specific materials that the trains are carrying.

Notes from the Municipal Meetings will be available on the project website.

Review Hazards of Concern

Mr. Subbio reviewed the hazards of concern with the Planning Committee. Though some hazards do not affect the County very much, they will be included in the HMP to meet Federal Emergency Management Agency (FEMA) requi

Civil Unrest

Riots occurred in 1964 and 2013 in Rochester. Five other notable marches, protests, or rallies have occurred in the County since 2010, but none caused any major issues. Planning Committee members stated that another riot occurred in Rochester in 1992 after the Rodney King verdict.

Civil unrest has the potential to cause disruption of municipal services and property damage, and may result in the need to hire or contract additional staff for a particular event. The County can expect some form of civil unrest once each year.

Drough

A total of eight droughts are on record in the County since 1988. Since 1993, drought has caused approximately \$1 million in crop damage. There is a 36% probability of a drought in any given year, based on previous occurrences.

Earthquake

No earthquakes had an epicenter within Monroe County since at least 1973. While no fault lines run under the County, the geology of the County is such that earthquakes are felt easily. Earthquakes in 2008, 2010, and 2013 were felt within the County. The County OEM contacts Ginna Nuclear Power Plant and the University of Rochester to get information any time an earthquake occurs. Both locations have seismic monitoring equipment.

Impacts of earthquakes in the County may include building evacuations and shaking. No damage has been reported in the County from earthquakes. There is a 40% chance each year that an earthquake will be felt in the County, based on previous occurrences.



MEETING NOTES

Extreme Temperature

Extreme temperatures are defined as 10° Fahrenheit above normal highs, or below normal lows. Since 2005, five instances of extreme lows and six instances of extreme highs have occurred in the County. A polar vortex in 2014 brought temperatures down to -40° Fahrenheit. Extreme temperatures affect the health of 4-risk populations, create an increased load on the power grid, and may result in drought conditions. Extreme low temperatures may cause ice jams and damage to water lines. Temperatures below 15° Fahrenheit inhibit salt from preventing ice formation on the roadways, which may cause traffic accidents and degrade emergency response. The County Department of Public Health recommends that schools close when the wind chill reaches -20° fahrenheit, but most schools in the County close when the wind chill reaches -20° degrees Fahrenheit. The Rochester Institute of Technology (RIT) has closed a few times due to extreme cold.

Floor

Since 2000, 27 flood events have occurred in the County, 4 of which resulted in Presidential Disaster Declarations. Flooding is expected within the 1-percent and 0.2-percent annual chance floodplains, including along the coast of Lake Ontain. Flooding is also caused by ice jams, dam failures, and heavy rains (flash flooding). A flood in the Town of Rush occurred just a few months ago. In the 1970s, the Town of Perinton and the Village of Fairport saw 3 feet of floodwater from the failure of the Erie Canal. Stormwater runoff that enters the Canal increases the risk of flooding from the Canal. The coast of Lake Ontario is extremely sensitive to fluctuations in the water level of the Lake, which is controlled by the International Joint Commission. Ellison Park floods during most significant rain events.

According to the National Weather Service, since 1950, flooding in the County has caused approximately \$4.4 million in reported property damage. Some type of flooding occurs in the County every year.

Hazardous Material

Since 2010, approximately 400 hazardous materials incidents have occurred in the County. Most were handled by the local fire department however, 85 of the 400 incidents required some kind of response by the County. Hazardous material incidents can occur at fixed facilities or in transit. Impacts of a release of hazardous materials include environmental contamination, road closures, property damages, and cleanup costs. For security purposes, the HMP will not show the location of the vulnerable fixed facilities, except for the Ginna Nuclear Power Plant. The HMP will address the possible health effects on the food supply from a release of radioactive material from the plant. Monroe County lies outside of the 10-mile plume exposure pathway emergency planning zone (EPZ), but parts of the County lie within the 50-mile ingestion exposure pathway EPZ.

Infestatio

The infestation profile of the HMP will focus on the emerald ash borer, the true armyworm, ticks (for the spread of Lyme Disease), and mosquitos (for the spread of West Nile Virus (WNV)). The emerald ash borer is killing the throughout the County, and dead trees are at risk of falling on roadways or power lines during strong storms. The true armyworm caused so much crop damage in 2012 that the U.S. Department of Agriculture issued a disaster declaration to help farmers recover. Lyme Disease from ticks has been increasing over the last few years—both the density of ticks and the proportion carrying Lyme Disease have increased. Between 2012-2013, four cases of WNV in humans and one case in a horse were reported in the County; though incidence of WNV in the County is now very low.

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The Town of Irondequoit identified the Giant Hogweed as an issue in the Irondequoit Bay, and reported that the New York State Department of Environmental Conservation (NYS DEC) is monitoring the plant.

Small landslides reported in the County have affected one structure each in 1993, 1997, 1998, and 2004. The Lake Ontario shoreline and bluffs are especially vulnerable to landslides from undercut erosion. Landslides may result in structure collapse or expose underground utilities.

The severe storm hazard encompasses hall, wind, lightning, thunderstorms, tornadoes, and hurricanes and tropical storms. A total of 38 severe storms events have occurred in the County since 2010 alone. Five of the County's Presidential Disaster Declarations were made in response to severe storm events. Since 1993, 4 fatalities, 25 injuries, \$30.9 million in reported property damage, and \$2.9 million in reported crop damages have resulted from these storms. Severe storms may also down trees and power lines, resulting in utility failures. The County can expect severe storms every year

Severe Winter Storm

Severe winter storms include heavy snow, blizzards, and ice storms. A total of 34 major winter storm events have occurred in the County since 1960. Four of the County's Presidential Disaster Declarations were made in response to severe winter storm events. Approximately \$15.5 million in property damage, and \$1.5 million in crop damages has been reported from these storms. Winter storms also result in traffic accidents and travel delays.

Generally, the County receives so much snow each year that jurisdictions are not overly concerned about snowfall. Freeze/thaw cycles are more of a problem in the County.

One incident of terrorism is on record as directly affecting the County. In 2014, a man was arrested for trying to support ISIS and attempting to murder government officials. Government facilities and critical infrastructure are vulnerable to terrorism. Acts of terrorism can result in fatalities, injuries, property damage, and disruption of operations. The likelihood of a terrorist incident is difficult to quantify.

The terrorism profile in the HMP will include an examination of cyberterrorism and agricultural terrorism

Utility failures, which include power outages, are generally caused by other hazards. Since 2010, a total of 28 storm events have caused power outages in the County. Monroe County was included in the Presidential Disaster Declaration for the Northeast Blackout of 2003. Utility failures can result in the failure of heating and cooling equipment, communications outages, food spoilage, and basement flooding (when power fails during a rain or flash flood event and sump pumps are not operational).

Since 2010, a total of 14 wildfires have occurred in the County. According to the New York State Department of Environmental Conservation (NYS DEC), 95% of all wildfires are caused by human activity. The Town of Greece and City of Rochester have had the most wildfires in the County. Rochester has a large marshland and wooded area in the river gorge.

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MEETING NOTES

The wildfire profile of the HMP will assess the vulnerability of the County in the wildland/urban interface- areas within 1.5 miles of designated wildlands. Wildfires may cause injuries and fatalities, property damage, loss of natural resources, and an increased risk of flash flooding

Next Steps

The following next steps were identified during the meeting:

- Mr. Rion will contact Dr. Bob King in Agriculture and Markets at the Monroe Community College to discuss the impacts of drought in the County.
- Municipalities and stakeholders will identify and share any reports, plans, or other strategic documents relevant to the HMP and mitigation projects.
- Municipalities will complete and submit the HMP worksheets by August 31, 2015.
- Tetra Tech will conduct the vulnerability assessment for the hazards of concern
- The September 2015 Planning Committee meeting will be held from 9:00 a.m. to 11:00 a.m. on September 23, 2015.
- A public meeting to review the full risk assessment will be conducted in the evening of September 23, 2015.

With no further questions, Mr. Subbio and Mr. Rion thanked attendees for their time. The meeting concluded at 10:45 a.m.

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Agenda

- Outreach Review Results of Municipal Meetings
- Review Hazards of Concern
- Questions

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Outreach

- Officials Involved in the Planning Process
- · Organizations Contacted
- entations Delivered

County Office of Emergency Management (OEM) Key Points: Power outages from do Black Creek flooding

Review Results of Municipal Meetings

Review Hazards of Concern 4 Presidential In-Declarations 27 events since 2000 Location dichance fire 8



Review Hazards of Concern Civil Unrest

Review Hazards of Concern Drought

Review Hazards of Concern Hazardous Materials 8

























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6. Questions

Provide reports and plans

Vulnerability assessment

AGENDA

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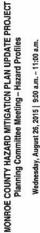
MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting - Hazard Profiles Agenda

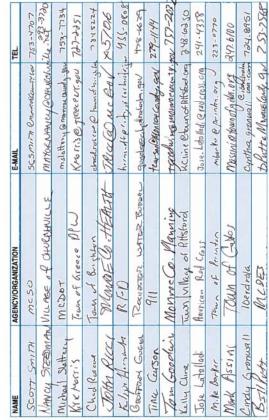
Wednesday, August 26, 2015 | 9:00 a.m. - 11:00 a.m.

2.	utreach								
3.	Review Results of Municipal Meetings								
4.	Review Hazards of Concern								
	a. Civil Unrest								
	b. Drought								
	c. Earthquake								
	d. Extreme Temperatures								
	e. Flood								
	f. Hazardous Materials								
	g. Infestation								
	h. Landslide								
	i. Severe Storm								
	j. Severe Winter Storm								
	k. Terrorism								
	I. Utility Failure								
	m. Wildfire								

Next Planning Committee Meeting – Vulnerability Assessment Risk Assessment Public Meeting

SIGN-IN









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SIGN-IN

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Hazard Profiles

Wednesday, August 26, 2015 | 9:00 a.m. - 11:00 a.m.









Wednesday, August 26, 2015 | 9:00 a.m. - 11:00 a.m.

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Hazard Profiles

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MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Hazard Profiles

Wednesday, August 26, 2015 | 9:00 a.m. - 11:00 a.m.



NAME	AGENCY/ORGANIZATION	E-MAIL TEL.	
704 /ETTE	Town OF PENFIELD	tested Parison of 36-8657	-8657
John Gathier	Town of Greece	, Iganthia energiescruppy 723-2376	-2376
PAUL ROBINSON	VILLAGE OF CHURCHUILE	part (Shurchuille. net 293-2366	3366
Jim Herbst	Monge Canty flish Story	1 Horbs tomano country 500	
Robus Osterwinta	Town of Henriette	13 storujuta humath . or 359-7078	-7075
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LYNN TALEY	R. T. T.	Jacknesserited, 45-7812	7812
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MEETING NOTES

ate	September 23, 2015	Time	9:00 a.m 10:00 a.m
leeting	Monroe County Hazard Mitigation Plan (HMP)	Planning	Committee Meeting
ocation	Monroe County Office of Emergency Manager	ment, Ro	chester, NY
	Frederick Rion, Monroe County Office of Eme	rgency M	anagement (MCOEM)
	Kristina Daugherty, MCOEM		
	Mark Leszczynski, MCOEM		
	Tina Carson, Monroe County 9-1-1		
	Bill Putt, MC DES		
	Michelle Virts, MC DES		
	Mike Clark, Monroe County Department of Hu	man Sen	rices
	Tom Goodwin, Monroe County Department of	Planning	1
	John Ricci, Monroe County Department of Pul	blic Healt	h
	Shaun Sharp, Monroe County Department of	Public He	alth
	Justin Cole, Monroe County Geographic Infor	mation S	stem (GIS)
	Jennifer Kusse, Monroe County Information S	ervices	
	Devan Helfer, Monroe County Parks		
	Rich Verdouw, Monroe County Public Safety (Communi	cations
ttendees	Brad Smith, Monroe County Water Authority (MCWA)	
itendees	Michael Slattery, Monroe County Department	of Transp	ortation (MCDOT)
	Chad Roscoe, Town of Brighton		
	Dawn Forte, Town of Chili		
	Paul Robinson, Village of Churchville		
	Nancy Steedman, Village of Churchville		
	Fritz May, Village of Fairport		
	Chuck Marshall, Town of Henrietta		
	Mike Lissow, Village of Hilton		
	Mike McHenry, Village of Hilton		
	Bob Kiley, Town of Irondequoit		
	Gregory D. Merrick, Town of Irondequoit		
	Mike Barker, Town of Perinton		
	Greg Seigfred, Town of Perinton		
	Robert Panik, Town of Riga		
	Felipe Hernandez, City of Rochester Fire Dep		





	Stephen Batz, City of Rochester Fire Department
	John Mostico, City of Rochester Police Department
	Paul Gee, Village of Scottsville
	Jackie Sullivan, Village of Spencerport
	Will Barham, Village of Webster
Attendees (Continued)	Jake Swingly, Village of Webster
	Terry Rech, Town of Wheatland
	Jose Latalladi, American Red Cross
	Bill Platt, American Red Cross
	Bob King, Monroe Community College – Agriculture and Life Sciences Institute
	Dave Kester, Regional Transit Service
	Lynn Daley, Rochester Institute of Technology (RIT)
	Cindy Gronwall, Iberdrola
	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)

Purpose

The purpose of the Planning Committee meeting was to review the vulnerability assessment of the hazards of concern. This meeting aligns with the "Assess the Problem" step of the mitigation planning process.

Discussion Points

This section summarizes each discussion point addressed during the Planning Committee meeting.

Outreach

Mr. Rion reported that he spoke about hazard mitigation and the plan update at a Village Mayor's Association meeting, at the Council of Governments (COG) meeting, and at a meeting of the Local Emergency Planning Committee (LEPC).

He has also regularly posted to the County OEM's Facebook page about the HMP update process, and is in discussions with the Town Supervisor's Association to include the HMP update in their meeting agenda.

Ms. Steedman reported that she spoke to the Chamber of Commerce about the HMP update. She will send a copy of the meeting agenda and other documentation to Mr. Subbio.

Review Vulnerability Assessment

Mr. Subbio reviewed the results of the vulnerability assessment for the hazards of concern. He noted that the assessment for the flood and severe storms hazards is not complete due to a delay in obtaining data from the Federal Emergency Management Agency (FEMA). The vulnerability assessment for these two hazards will be presented to the Planning Committee at the October 2015 meeting. Mr. Subbio also noted that the information

PAGE 2 OF 5



MEETING NOTES

Hazardous Materials

Because hazardous materials releases can occur in varying degrees from fixed facilities or in transit, the entire County is vulnerable to a hazardous materials incident. Injuries and fatalities may occur from exposure to the spilled chemicals. Structures may be inaccessible, contaminated, or damaged from a resulting fire or explosion.

Infestatio

The Infestation hazard includes the spread of West Nile virus (WNV) from mosquitoes, so the entire population is at risk to this hazard. Individuals 65 years of age and older are most susceptible to WNV, and one in seven people in the County fall into this group. Structures are not directly vulnerable to the infestation hazard. However, insects (particularly the emerald ash borer) can kill trees, which could then fall onto structures.

The Emerald Ash Borer was discussed during the municipal meetings in August 2015 as particularly damaging in the County. The loss of ash trees associated with this insect can result in streambank instability, increased erosion, and increased sedimentation. The U.S. Department of Agriculture modeled the spread of the Emerald Ash Borer, and found that it could result in the need to replace 17 million ash trees across 25 states, at a total cost of \$10.7 billion.

Other effects of infestations include crop loss, and a decrease in the value of timber in the region.

Mr. Sharp pointed out that Lyme disease from ticks is more of a health issue in the County than WNV from mosquitos, and asked Tetra Tech to incorporate the information Mr. Sharp provided on the subject into the hazard profile.

Landslide

Landslide "incidence" is based on the history of landslides in an area, and rated as high, moderate, or low. Landslide "susceptibility" is a function of the slope and geology, and is also rated as high, moderate, or low. For the HMP, the areas of the County identified as vulnerable to landslides are those areas with a moderate incidence of landslides, or with a low incidence and moderate susceptibility.

In the moderate incidence areas, there are over 230,000 people, nearly 77,000 buildings, and \$115.7 billion in property replacement value. In the low incidence/moderate susceptibility areas, there are over 316,000 people, nearly 106,000 buildings, and \$93.6 billion in property replacement value. About 1,489 critical facilities would be exposed.

Severe Winter Storm

Severe winter storms include heavy snow, blizzards, and ice storms. Because these events are regional in nature, the entire County is vulnerable. These events bring with them an increased risk of traffic accidents, over-exertion (from shoveling snow, for instance), and hypothermia; and a decrease in emergency response capabilities. All buildings in the County are exposed to sever winter storms, representing \$163.4 billion in replacement cost. Critical facilities may lose functionality, and loss of business will result from these events.

Terrorism

Due to the population and property distribution, urban areas are more vulnerable to terrorism than rural areas. All buildings in the County are exposed to the terrorism hazard, either as direct targets or by collateral damage from an attack. The expected losses vary depending on the target and time of day. Critical facilities, such as municipal buildings, have the highest risk of terrorist attack.



MEETING NOTES

provided during the meeting is a high-level summary of the hazard analysis. The full analysis can be found in the hazard profile documents, which Tetra Tech will post to the project website within the next 2 weeks.

Civil II

Injuries or fatalities would only be expected if a protest, march, or rally becomes violent. If that occurs, any building near the crowd could be vulnerable to damage. Critical facilities such as municipal buildings, schools, or other government facilities may be targeted. The economy of the entire County would be jeopardized by this hazard, because it may result in people not being able to report to work or spend money at business locations near the unnest.

Drought

The entire population is vulnerable to a drought, which is considered a regional- or larger-scale hazard. Firefighting capability may be reduced during a drought. There would be no direct impact to structures; however buildings may be more vulnerable to wildfires. There are 475 farms in the County, with a total area of 98,676 acres. A drought would have a severe impact on the agricultural economy of the County.

Earthqual

The County's entire population is exposed to the effects of an earthquake. Urban areas are more vulnerable than rural areas, due to the increased number of buildings. The elderly and individuals below the poverty line are more vulnerable than other segments of the population.

The vulnerability assessment for the earthquake hazard was conducted using FEMA's Hazus software. Hazus identifies areas of soft soil as vulnerable to this hazard. Over 452,000 people in Monroe County (60.8 percent of the population) reside on soft soils. There are 142,435 buildings present on these soils (59.1 percent of the total number of buildings in the County). A total of \$173 million in property replacement cost, along with 1,170 critical facilities, are located on these soft soils.

According to Hazus, a 500-year Mean Return Period (MRP) earthquake event would displace 165 households and 113 people would require shelter. There would be 48 injured, 7 hospitalized, and 1 deceased person expected from this hazard, depending on the time of day in which the earthquake occurred. The County can expect \$283.6 million in property damages, with \$39.3 million in income loss. Most critical facilities would experience no damage to moderate damage, with delays of service for less than 30 days. The 500-year MRP earthquake would generate 56,685 tons of brick/wood debris, and 22,285 tons of concrete/steel debris. Mr. Rion reported that the County does not have a debris management plan in place.

Extreme Temperature

The entire population is vulnerable to this hazard. The elderly, ill, infants and children, and individuals who cannot afford heating/cooling are especially vulnerable. Over-exertion is also a possibility during extreme heat and extreme cold events; hypothermia is a possibility during extreme cold. All structures are vulnerable to extreme temperatures, because HVAC systems can become overloaded due to heat or cold, and pipes may freeze and burst during extreme cold. Economic impacts can occur from a loss of business while repairs are conducted, as well as the cost of the repairs themselves.

PAGE 3 OF 5



MEETING NOTES

Utility Failu

Utility failures focus on power outages, but also include water/sewer line breaks, loss of communications, and other events. The entire population is vulnerable to utility failures. Power outages can result in food spoilage, carbon monoxide exposure from running portable generators, and a lack of access to potable water. Individuals who are dependent on electric-powered medical equipment are especially vulnerable. Expected losses from utility failures include the cost of replacing spoiled goods/food, and the costs incurred by community services groups in assisting vulnerable poorulations.

Wildfire

The wildfire hazard focuses on the Wildland-Urban Interface. This area is made up of the interface (where urban areas and wildland areas border each other) and the intermix (where some development has occurred within wildland areas). Nearly 94,000 people reside in these areas. Over 34,000 buildings are present in these areas, representing \$29.2 billion in property replacement cost value.

Next Steps

The following next steps were identified during the meeting:

- Municipalities will complete and submit the HMP worksheets as soon as possible.
- Municipalities and stakeholders will identify and share any reports, plans, or other strategic documents relevant to the HMP and mitigation projects.
- Tetra Tech will conduct the vulnerability assessment for the flood and severe storms hazards.
- The October 2015 Planning Committee meeting will be held from 9:00 a.m. to 11:00 a.m. on October 20, 2015. The vulnerability assessments for the flood and severe storm hazards, and the updated mitigation goals and objectives will be reviewed during this meeting.
- A public meeting to review the full risk assessment will be conducted in the evening of October 20, 2015.

With no further questions, Mr. Subbio and Mr. Rion thanked the attendees for their time. The meeting concluded at

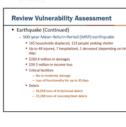
AGE 4 OF 5 PAGE 5 OF 5











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AGENDA

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting - Vulnerability Assessment

Agenda

Wednesday, September 23, 2015 | 9:00 a.m. - 11:00 a.m.

- 1 Welcome
- 2. Outreach
- Review Vulnerability Assessment
 a. Civil Unrest
 - b.
 - Drought Earthquake
 - d. Extreme Temperatures Hazardous Materials

 - Infestation
 - Landslide g. h.
 - Severe Winter Storm
 - Terrorism Utility Failure Wildfire

- Next Steps
 a. Complete worksheets
 a. Complete worksheets b

 - Provide reports and plans
 Next Planning Committee Meeting
 i. Flood and Severe Storm Vulnerability Assessment

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- ii. Goals and Objectives d. Risk Assessment Public Meeting
- 5. Questions

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MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Vulnerability Assessment

Wednesday, September 23, 2015 | 9:00 a.m. - 11:00 a.m.

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Cindy Gronwall	Iberdiola	Cynthia gronwall @ Bondralwood com 734-8951	734-8951
John Ruz,	Public Health	JULY MC. PON 7535706	53510
and MARSHALL	Much MARSHALL TOWN OF HENRIGITA	CMARS 404 C HAVES TOWN 359. 700 F	359.700/
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Tom Goodwin MCD/+D	MCDP+D	Family Many Michael 77-2032	3-2082



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MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Vulnerability Assessment

NAME	AGENCY/ORGANIZATION	E-MAIL	TEL.
Dawn Forte	TOWARD Cheli	North Chunoteliili. 24 589-614	1719-638
SHAWN SHARP	терен	554ARP @ MENGRECOMO, 60V 753-5128	253-5128
TAKE Swingly	Villare of Webster	JBWINGLY@ROUMBER, RRICHY 26,5-3770	W 265-377
Anskna Daugherly	Mesen	Haghery Morrecounty av 753-3823	753-3823
Sneg, Right	Greg. Eight Town of Lanter	950 yearle porter of 323-0770	0770-566
Mike Lisson	Mithe Lisson Villege of Hitton	M. Leah. Hanny. Org 352-4144	392-4144
Gregory D. Merrich	Town of Irondes wort	omerick eirordequeit, a	NA 336-609
LYNN DALEY	WANN TORLEY RIOT D	16drwsspitedy 475-7812	7.182-56.5
Rut VERDOUS	Mc pse	RVERDOUW ENGINEERECOUNTY, GAY 753-3682	753-3682
Mark Lecursains	Mesen	MLENELTTALKI CHOMMECONATY, GyV 753-3812	713-3812



MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Vulnerability Assessment

Wednesday, September 23, 2015 | 9:00 a.m. - 11:00 a.m.







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MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Vulnerability Assessment

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7	M. K. Methonia, Village of Hilton	dowah, Hanny, on 372-9632	
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Mille Barker	Town of Perinten	mbartler D printer. org 223-0770	
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MEETING NOTES

Meeting	Monroe County Hazard Mitigation Plan (HMP) Steering Committee Meeting					
Date	September 23, 2015 Time 11:00 a.m. – 11:50 a.m.					
Location	Monroe County Office of Emergency Management, Rochester, NY					
	Frederick Rion, Monroe County Office of Emergency Management (MCOEM)					
	Kristina Daugherty, MCOEM					
	Jason Kennedy, Monroe County Department of Environmental Services (MC DES)					
Attendees	Tom Goodwin, Monroe County Department of Planning					
	Justin Cole, Monroe County Geographic Information System (GIS)					
	Mark Noll, PhD, State University of New York (SUNY) - Brockport					
	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)					

The purpose of the Steering Committee meeting was to review progress on the Hazard Mitigation Plan (HMP) update, and to review the participation status of the County's municipalities and stakeholders

Discussion Points

This section summarizes each discussion point addressed during the Steering Committee meeting.

Mr. Rion reported that he spoke about hazard mitigation and the plan update at a Village Mayor's Association meeting, at the Council of Governments (COG) meeting, and at a meeting of the Local Emergency Planning Committee (LEPC). He has also regularly posted to the County OEM's Facebook page about the HMP update process, and is in discussions with the Town Supervisor's Association to include the HMP update in their meeting

Ms. Daugherty reported that she discussed the HMP update at a meeting of the Irondequoit Bay Technical Staff on

Review Status of Worksheet Completion

Mr. Subbio reviewed the Worksheet Completion Status handout with the group. The handout shows the worksheets completed by each municipality. Mr. Subbio will make sure that the County documents provided by Mr. Rion are discussed in the HMP, and that any future Worksheet Completion Status handouts include the documents as

Mr. Rion will reach out to the municipalities that have not yet completed their worksheets. Municipalities will be asked to return their worksheets within 10 to 14 days.

Dr. Noll asked which worksheets, if any, the college should complete. Mr. Subbio stated that it would be beneficial to the planning process for him to complete Worksheets 1, 4, and 7. Dr. Noll will also review Worksheet 2 to see if the college can offer technical expertise in any of the areas listed on the worksheet.



MEETING NOTES

Review Planning Participation

Mr. Subbio then reviewed the Participation Status handout with the group. Mr. Subbio listed the organizations that were represented at the September 23, 2015, Planning Committee meeting, which occurred immediately before the Steering Committee meeting. The following municipalities have not yet participated in the planning process:

- Town/Village of East Rochester¹
- Town of Hamlin
- Town of Mendon
- Town of Parma
- Town of Sweden

While the Federal Emergency Management Agency (FEMA) and New York State Division of Homeland Security & Emergency Services (NYS DHSES) require attendance at a minimum of one planning meeting to adhere to the requirements of the Disaster Mitigation Act of 2000 (DMA 2000), the Community Rating System (CRS) program requires attendance at planning meetings during each step of the planning process. If a municipality misses one step of the planning process, the maximum number of CRS points available for the HMP would decrease from about 300 to only 25. Missing two steps of the planning process would make the municipality ineligible for HMP CRS points.

Mr. Subbio reviewed the list of municipalities that attended the August 2015 Planning Committee meeting (which was focused on the "Assess the Hazard" step of the planning process), but did not attend the September 2015 Planning Committee meeting (focused on the "Assess the Problem" step of the planning process). Because the October 2015 Planning Committee meeting (which is focused on the mitigation goals and objectives) will also include a discussion of the County's vulnerability to flood and severe storms, it may qualify for both the "Assess the Problem" and "Set Goals" steps of the planning process. Mr. Subbio asked Mr. Rion to also reach out to the municipalities that had attended the August 2015 meeting but did not attend the September 2015 meeting. They are as follows:

- Village of Brockport
- Town of Gates
- Town of Greece
- Village of Honeoye Falls
- Town of Penfield Town of Pittsford

Mr. Rion will identify the points of contact for each of these municipalities, and will reach out to them to join the planning process.

¹ During the meeting, the Steering Committee members pointed out that while the worksheets indicated that there are both a Town of East Rochester and a Village of East Rochester, there is only one municipally. It is a coterminous Town and Village, and is generally dentified as a Village. Tetra Tech Will adjust planning materials accordingly.



Schedule

Next Steps

meeting focused on the risk assessment.

within 10 to 14 days.

updated HMP.

The following next steps were identified during the meeting:

relevant to the HMP and mitigation projects.

MEETING NOTES

Mr. Subbio reviewed the project schedule for October. Tetra Tech will complete the vulnerability assessment for floods and severe storms, and will post all hazard profiles to the project website. The Steering Committee will meet via conference call in mid-October to discuss the updated HMP's mitigation goals and objectives. These goals and objectives, as well as the flood and severe storm vulnerability assessments, will be discussed with the Planning

Committee on October 20, 2015. Also on October 20, 2015 (during the evening), Tetra Tech will conduct a public

Mr. Rion will reach out to municipal representatives to advise them to complete and submit their worksheets

· Municipalities and stakeholders will identify and share any reports, plans, or other strategic documents

A Steering Committee meeting will be held in mid-October to identify the goals and objectives for the

The October 2015 Planning Committee meeting will be held from 9:00 a.m. to 11:00 a.m. on October 20,

 A public meeting to review the full risk assessment will be conducted in the evening of October 20, 2015. With no further questions, Mr. Subbio and Mr. Rion thanked attendees for their time. The meeting concluded at

Tetra Tech will complete the vulnerability assessment for floods and severe storms.

AGENDA

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Steering Committee Meeting Agenda

Wednesday, September 23, 2015 | 11:00 a.m. - 12:00 p.m.

1. Welcome

- 2. Outreach
- 3. Review Status of Worksheet Completion
- 4. Review Planning Participation

5. Schedule

6. Next Steps

- a. Complete worksheets
 b. Provide reports and plans
- c. Complete Vulnerability Assessment flood and severe storm d. Next Steering Committee Meeting Conference Call
 - i. Goals and Objectives
- ii. October 14, 2015

 e. Next Planning Committee Meeting
 i. Vulnerability Assessment, and Goals and Objectives
 ii. October 20, 2015

 f. Risk Assessment Public Meeting October 20, 2015
- 7. Questions and Concerns

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Monroe County Hazard Mitigation Plan Update - Worksheet Completion Status

The following table shows the worksheets that have been submitted by each jurisdiction as of September 18, 2015.

	Worksheet 1 - Events and Losses	Morksheet 2 - Cap. Assessment	Worksheet 3 - NFIP FPA	Worksheet 4 - Past Action Progress	Norksheet 5 - Plan Integration	Morksheet 6 - New Development	Worksheet 7 - Hazards of Concern	Other data or information provided
Monroe County								
Town of Brighton	Х	Х	Х	Х	Х	Х	Х	CEMP and Stormwater Plan
Village of Brockport								
Town of Chili								
Village of Churchville	Х	Х	Х	Х	Х	Х	Х	
Town of Clarkson	Х	Х	Х	Х	X	Х	Х	
Town of East Rochester								
Village of East Rochester								
Village of Fairport	Х	Х	Х	Х	Х	Х	Х	
Town of Gates	Х	Х	Х	Х	X	Х	Х	
Town of Greece	Х	Х	Х	Х	Х	Х	Х	
Town of Hamlin								
Town of Henrietta								
Village of Hilton	Х	X	Х		X	Х	Х	
Village of Honeoye Falls	Х	Х	Х	Х	Х	Х	Х	
Town of Irondequoit								
Town of Mendon								
Town of Ogden								
Town of Parma								
Town of Penfield								
Town of Perinton	Х	Х	Х	Х	Х	Х	Х	
Town of Pittsford	х	Х	Х	Х	Х	Х	Х	
Village of Pittsford	Х	Х	Х	Х	Х	Х	Х	
Town of Riga	х	Х	Х	Х	Х	Х	Х	Comprehensive Plan
City of Rochester	х	Х	Х	Х	х	Х	х	Heat Sweep Plan, Cool Sweep Plan

The following table shows the stakeholder agencies that have participated in the project, as of September 17, 2015.

		Attended	Attended Meetings		
Stakeholder	Planning Committee – Kickoff 07/29/15	Municipal Meetings 08/18/15 - 08/20/15	Planning Committee – Hazard Profiles 08/26/15	Planning Committee – Vulnerability Assessment 09/23/15	Number of Participants
American Red Cross	×		×		2
Brighton Fire	×				1
Frontier			×		2
Greater Rochester International Airport	×				1
Iberdrola			×		1
Monroe County Community College, Agricultural and Life Sciences Institute		×			1
National Grid	×		×		2
Rochester Institute of Technology	×		×		1
Rochester Water Bureau			×		1
Rochester-Genesee Regional Transportation Authority	×				1
Time Warner Cable	×				1

Monroe County HMP Update – Participation Status As of 09/18/15

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MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Steering Committee Meeting

Wednesday, September 23, 2015 | 11:00 a.m. - 12:00 p.m.

Planning Committee – Kickoff 07/29/15

NAME	AGENCY/ORGANIZATION	E-MAIL	TEL.
Mrsha Buchet, MOBER	Mosm	Adaushory amorramyon 753-3823	753-3823
Fred Rion	Mcoe M	Persone man sur cosulty. que 77. 3516	KJ- 3516
Jan Subbio	Teta Tech	pray subbio e tetratech com 717 545- 3580	717 545-3580
Tom Goodwin MC DD+D	MC DP+D	TEACHLING MOUVECCOUNT, 94 753-2022	505-831 W
Mark Noll	SUNV Brockport	mno 110 brackport. edu 395-5717	395-8717
Justin Col+	/WG/18	Jeole Manuscratus 753-784	153-784
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Village of Spencerport

Town of Sweden

Town of Webster

Village of Scottsville

Village of Webster Town of Wheatland

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Village of Pittsford

City of Rochester

Town of Rush Town of Riga

Town of Perinton **Town of Pittsford**

Town of Penfield

Town of Mendon Town of Ogden Town of Parma 2



Monroe County Hazard Mitigation Plan Update – Participation Status

The following table shows the jurisdictions that have participated in the project, as of September 18, 2015.

			Attended	Attended Meetings		
	Submitted	Planning Committee – Kickoff	Municipal Meetings – 08/18/15 -	Planning Committee – Hazard Profiles	Planning Committee – Vulnerability Assessment	Number of
Jurisdiction	Worksheets	07/29/15	08/20/15	08/26/15	09/23/15	Participants
Monroe County		×	×	×		28
Town of Brighton	×	×	×	×		2
Village of Brockport			×	×		2
Town of Chili		×	×	×		2
Village of Churchville	×	×	×	×		7
Town of Clarkson	×					1
Town of East Rochester						
Village of East Rochester						
Village of Fairport	×	×		×		1
Town of Gates	×		×	×		1
Town of Greece	×			×		2
Town of Hamlin						
Town of Henrietta		×	×	×		2
Village of Hilton	×	×	×	×		3
Village of Honeoye Falls	×		×	×		2
Town of Irondequoit		×	×	×		4

Monroe County HMP Update – Participation Status As of 09/18/15

Monroe County HMP Update – Participation Status As of 09/18/15



Meeting	Monroe County Hazard Mitigation Plan (HMP) Planning Committee Meeting						
Date	October 20, 2015 Time 9:00 a.m. – 10:00 a.m.						
Location	Monroe County Office of Emergency Management, Rochester, New York						
	Frederick Rion, Monroe County Office of Emergency Management (MCOEM)						
	Kristina Daugherty, MCOEM						
	Mark Leszczynski, MCOEM						
	Tina Carson, Monroe County 9-1-1						
	Andy Sansone, Monroe County Department of Environmental Services (MC DES)						
	Steve Olufsen, Monroe County Department of Planning and Development						
	Mike Sayers, Monroe County Department of Public Health						
	Tim Czapranski, Monroe County Emergency Medical Services						
	Justin Cole, Monroe County Geographic Information System (GIS)						
	Rodney Corny, Monroe County Office of Mental Health						
	Jim Herbst, Monroe County Public Safety Communications						
	Lou Tomassetti, Monroe County Sheriff's Office						
	Brad Smith, Monroe County Water Authority (MCWA)						
	Michael Slattery, Monroe County Department of Transportation (MCDOT)						
	Chad Roscoe, Town of Brighton						
Attendees	David Miller, Village of Brockport						
	John LaPierre, Village of Brockport						
	Dawn Forte, Town of Chili						
	Paul Robinson, Village of Churchville						
	Nancy Steedman, Village of Churchville						
	Fritz May, Village of Fairport						
	John Gauthier, Town of Greece						
	Mike Lissow, Village of Hilton						
	Mike McHenry, Village of Hilton						
	Gregory D. Merrick, Town of Irondequoit						
	Dennis Scibetta, Town of Parma						
	Jim Smith, Town of Parma						
	Mike Barker, Town of Perinton						
	Greg Seigfred, Town of Perinton						
	Kelly Cline, Town of Pittsford and Village of Pittsford						
	Debbie Campanella, Town of Riga						

PAGE 1 OF 4



MEETING NOTES

Meeting	Monroe County Hazard Mitigation Plan (HMP) Planning	Committ	ee Meeting
Date	October 20, 2015	Time	9:00 a.m. – 10:00 a.m.
	Tom Mann, City of Rochester		
	John Mostico, City of Rochester Police Department		
	Terry Rech, Village of Scottsville and Town of Wheatlar	nd	
	Gary Penders, Village of Spencerport		
	Jackie Sullivan, Village of Spencerport		
Attendees	Rob Boutillier, Town of Webster		
(continued)	Jake Swingly, Village of Webster		
	William Platt, American Red Cross		
	Todd B. Bane, Greater Rochester International Airport	Fire Depa	rtment
	Dave Kester, Rochester Genesee Regional Transporta	tion Autho	ority Regional Transit Service
	Lynn Daley, Rochester Institute of Technology (RIT)		
	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)		

Purpos

The purpose of the Planning Committee meeting was to complete the review of the vulnerability assessment and to review the mitigation goals and objectives set by the Steering Committee for the updated plan. This meeting aligned with the "Assess the Problem" and "Set Goals" steps of the mitigation planning process.

Discussion Points

Discussion points addressed during the Planning Committee meeting are summarized below.

Outrosc

Mr. Subbo and Mr. Rion informed the group that outreach letters have been sent to the school districts, neighboring counties' planning committees and offices of emergency management, the National Weather Service, the New York State Division of Homeland Security and Emergency Management, and Monroe County's fire district commissioners

Mr. Swingly stated that the Village of Webster has added a link to the project website to the village website.

Ms. Steedman reported that the Village of Churchville will be conducting a meeting for property owners in the floodplain to discuss flooding issues along Black Creek, and try to determine mitigation measures for residents

Review Vulnerability Assessment

Mr. Subbio reviewed the results of the vulnerability assessment for the flood and severe storms hazards. He noted that Tetra Tech was not able to obtain certain flood data from the Federal Emergency Management Agency (FEMA); therefore, the vulnerability assessment for the flood and severe storms hazards was completed using available data. The updated plan will include an action to incorporate updated flood data in the next vulnerability assessment. Mr.

PAGE 2 OF 4



MEETING NOTES

Subbio also noted that the information provided during the meeting is a high-level summary of the hazard analysis. The full analysis can be found in the hazard profile documents, which Tetra Tech has posted to the project website

Floo

Mr. Subbio reviewed the results of the vulnerability assessment for the flood hazard. The 1 percent annual chance flood is expected to affect 24,174 people, and cause \$4.65 million in damage to structures and contents of 3,679 buildings. There are 49 critical facilities within the 1 percent annual chance floodplain. This flood scenario will generate over 65,000 tons of debris.

Tetra Tech did not conduct a detailed analysis of expected damages in the 0.2 percent annual chance floodplain, however, there are 28.879 people, 4.824 buildings with a replacement cost value of \$7.56 million, and 55 critical facilities within that floodplain. Mr. Subbio pointed out that the 0.2 percent annual chance floodplain includes the 1 percent annual chance floodplain.

Mr. Subbio then reviewed the National Flood Insurance Program (NFIP) statistics for Monroe County. As of June 30, 2015, 1,815 NFIP policies were in effect in the county, 1,108 of which are in the 1 percent annual chance floodplain. There have been 356 NFIP claims since 1978, with \$3.4 million in insurance payments.

Mr. Subbio then discussed repetitive loss and severe repetitive loss properties. Repetitive loss properties are those with two or more reported losses over \$1,000 in any 10-year rolling period since 1978. Severe repetitive loss properties are those that, in any 10-year rolling period since 1978, have received four or more NEIP claim payments over \$5,000 each, or two or more payments for which the cumulative amount of the building portion of the claim (not contents) exceeded the market value of the building. There are 13 repetitive loss properties in the county, 9 of which are residential, not properties. There are 2 severe repetitive loss properties in the county, both of which are residential.

The HMP will also show repetitive loss areas (areas in which repetitive flood loss are expected) whether or not NFIP policies are in place. In Monroe County, most flood insurance claims are for policies in the 1 percent annual chance floodplain; therefore, this floodplain is considered a repetitive loss area. The Towns of Irondequoit, Brighton, Wheatland, and Ogden each contain one additional repetitive loss area. These repetitive four loss areas are comprised of single structures or a group of structures that incur flood damages from stormwater runoff.

Mr. Gauthier, of the Town of Greece, stated that he believed that the FEMA Flood Insurance Rate Maps (FIRM) identify less than one-half of the "actual" floodplain as officially-mapped floodplain. He reported that many NFIP policies are in effect in the "actual" floodplain. Currently, the Town of Greece requires developers to delineate the floodplain as part of their permit applications.

Severe Storms

The severe storms hazard includes hail, wind, lightning, thunderstorms, tornadoes, and hurricanes/tropical storms. Based on the Monroe County's history, the county can expect \$1.4 million in property damage and \$132,000 in crop damage from severe storms each year. Due to the nature of the hazard, every structure in the county is vulnerable to some extent. The Hazus model for this hazard, which was based on wind alone, showed no expected damage for the 100-year or 500-year Mean Return Period (MRP) events. These events were associated with maximum peak wind guists between 45 and 50 miles per hour.



MEETING NOTES

Goals and Objectives

Mr. Subbio then reviewed the set of updated mitigation goals and objectives that will be included in the HMP. Mr. Rion pointed out that atthough the new goals are different than the existing plan's goals, the new goals encompass all of the existing poals, and are aligned with the current New York State HMP.

During the discussion of the new goals and objectives, Mr. Gauthier stressed the benefit being in the Community Rating System (CRS) program. Mr. Platt discussed and Mr. Rion relterated the assistance that the American Red Cross can provide in promoting personal and family preparedness (Objective 4.4).

The Planning Committee unanimously accepted the new goals and objectives, which include separating Protecting Structures in Hazard Areas (Objective 3.2) from Protecting Repetitive Loss Properties (Objective 3.3).

Next Steps

The following next steps were identified during the meeting:

- Municipalities will complete and submit the HMP worksheets as soon as possible.
- Municipalities and stakeholders will identify and share any reports, plans, or other strategic documents relevant to the HMP and mitigation projects.
- A public meeting to review the full risk assessment will be conducted in the evening of October 20, 2015.
 Tetra Tech will begin to develop the jurisdictional annexes and work with jurisdiction representatives to
- Tetra Tech will begin to develop the jurisdictional annexes and work with jurisdiction representatives to complete them.
- The November 2015 Planning Committee meeting will be held from 9:00 a.m. to 11:00 a.m. on November 19, 2015. A representative from FEMA Region II has been invited to discuss mitigation actions and FEMA's executations for them.

With no further questions, Mr. Subbio and Mr. Rion thanked the attendees for their time. The meeting concluded at 10:00 a.m.

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AGENDA

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting - Vulnerability Assessment and Goals & Objectives

Agenda

Tuesday, October 20, 2015 | 9:00 a.m. - 11:00 a.m.

1 Welcome 2. Outreach Review Vulnerability Assessment
 a. Flood b. Severe Storms 4. Goals and Objectives a. Existing b. Updated 5. Next Steps xxt Steps
a. Complete worksheets
b. Provide reports and plans
c. Risk Assessment Public Meeting
d. Next Planning Committee Meeting – Mitigation Actions
e. Develop juriedictional annexes





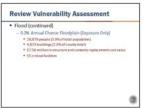


Agenda Welcome Outreach Review Vulnerability Assessme Goals & Objectives Next Steps Questions 8





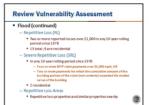






6. Questions







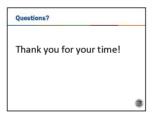














Existing Goals and Objectives

Goal 1: Reduce vulnerability to life-safety threats

- Objective 1.1: Increase public awareness by identifying ways to increase public knowledge of threats and preparedness measures
- Objective 1.2: Enhance and expand public alerting and notification means

Goal 2: Reduce property and economic losses

- Objective 2.1: Increase public awareness
- Objective 2.2: Enhance and expand public alerting and notification means
- Objective 2.3: Identify appropriate insurance for vulnerabilities
- Objective 2.4: Identify protective measures

Goal 3: Keep emergency plans current

- Objective 3.1: Review plans for accuracy
- Objective 3.2: Maintain resource databases and contacts
- Objective 3.3: Acknowledge and practice review cycles that satisfy regulatory requirements

Goal 4: Maintain readiness for an effective and safe response

- Objective 4.1: Provide state-of-the-art training programs and equipment for Public Safety providers
- Objective 4.2: Identify voids in the public safety infrastructure
- Objective 4.3: Coordinate resources for effective and efficient response

Goal 5: Expedite the recovery process

- Objective 5.1: Identify and deploy assistive resources
- Objective 5.2: Ensure accurate and timely communication with the public
- Objective 5.3: Promote neighbor-helping-neighbor concepts

Goal 6: Strive to be "the best we can be"

Objective 6.1: Seek professional accreditations

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Tuesday, October 20, 2015 |

- Objective 6.2: Continue personal and professional development opportunities
- Objective 6.3: Seek additional community partnerships
- Objective 6.4: Inform municipal officials about activities and elicit their support
- Objective 6.5: Seek funding sources to assist program goals and objectives

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Monroe County Hazard Mitigation Plan Goals and Objectives

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New Goals and Objectives

These new goals and objectives are aligned with the New York State HMP goals and objectives.

Goal 1: Coordinate hazard mitigation programs that affect the county

- Objective 1.1: Develop and maintain multi-jurisdictional coordination efforts related to hazard mitigation
- Objective 1.2: Develop and maintain partnerships with external federal, state, municipal, and stakeholder agencies that have a role in hazard mitigation
- Objective 1.3: Track and/or recommend local, county, state, and federal legislation and regulations related to hazard mitigation

Goal 2: Prevent hazards from impacting life, property, and the environment

- Objective 2.1: Develop and maintain local regulations that reduce vulnerability to hazards
- Objective 2.2: Develop and maintain local plans that reduce vulnerability to hazards
- Objective 2.3: Improve the county's stormwater management systems

Goal 3: Protect life, property, and the environment from hazard impacts

- Objective 3.1: Encourage homeowners, renters, and businesses to insure their properties against all hazards, including flood coverage under the National Flood Insurance Program
- Objective 3.2: Acquire, relocate, elevate, and/or retrofit existing structures located in hazard areas
- Objective 3.3: Acquire, relocate, elevate, and/or retrofit repetitive loss properties from floodprone areas
- Objective 3.4: Encourage local participation in the Community Rating System (CRS) Program
- Objective 3.5: Maintain emergency response capability

Goal 4: Increase public awareness of hazards, their impacts, and ways to reduce vulnerability

- Objective 4.1: Improve public alert, warning, and communications systems by promoting redundant and multi-faceted communications methods
- Objective 4.2: Conduct a coordinated public information program related to hazards and their impacts throughout the county
- Objective 4.3: Encourage residents to implement hazard mitigation and preparedness measures on their properties
- Objective 4.4: Promote personal and family preparedness

Goal 5: Protect, preserve, and restore the functions of natural systems

Objective 5.1: Encourage the use of green and natural infrastructure

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- Objective 5.2: Coordinate with local, county, state, federal, international, and other stakeholder agencies to maintain natural systems, including wetlands, parks, and riverine and
 - Monroe County Hazard Mitigation Plan Goals and Objectives

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MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT ning Committee Meeting – Vulnerability Assessment, Goals & Objectives

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Planning Committee Meeting - Vulnerability

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT
Planning Committee Meeting – Vulnerability Assessment, Goals & Objectives

Tuesday, October 20, 2015 | 9:00 a.m. - 11:00 a.m.

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT
Planning Committee Meeting – Vulnerability Assessment, Goals & Objectives

Tuesday, October 20, 2015 | 9:00 a.m. - 11:00 a.m.

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MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PI Planning Committee Meeting – Vulnerability Assessment, Goals

Tuesday, October 20, 2015 | 9:00 a.m. - 11:00 a.m.

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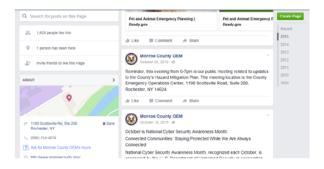
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AGENDA

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Risk Assessment Review Public Meeting Agenda

Tuesday, October 20, 2015 | 6:00 p.m. - 7:30 p.m.

1. Welcome

2. Review Risk Assessment

- Civil Unrest
- Drought
- Earthquake
- Extreme Temperatures
- Flood Hazardous Materials
- Infestation
 Landslide
- Severe Storm
- Severe Winter Storm
- Terrorism
- Utility Failure
- Wildfire

Next Steps
 Next Planning Committee Meeting – Mitigation Actions

4. Questions



MEETING NOTES

Meeting	Monroe County Hazard Mitigation Plan (HMP)	Risk Ass	essment Public Meeting
Date	October 20, 2015	Time	6:00 p.m. – 6:15 p.m.
Location	Monroe County Office of Emergency Manager	ment, Roo	chester, New York
Attendees	Frederick Rion, Monroe County Office of Eme	rgency M	anagement (OEM)
Attendees	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)		

Purpose

The purpose of this public meeting was review the results of the risk assessment with the general public, and to solicit input on the natural and non-natural hazards that affect the county.

Discussion Points

Although public notice of the meeting was distributed via (1) e-mail invitations sent to the towns, villages, adjacent counties, and other stakeholder groups associated with Monroe County; (2) advertisements broadcast throughout the community; and (3) via the Monroe County OEM's Facebook page, no county residents attended the meeting. Mr. Rion and Mr. Subbio waited until 6:15 p.m. to verify that no residents would attend.

Next Steps

Mr. Rion and other Planning Committee members will promote the project website, which will contain information about the HMP and the planning process. All future public meetings will continue to be advertised by multiple methods to encourage resident participation in the HMP update.

PAGE 1 OF 1

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Agenda

- Review Risk Assessment
- Next Steps



Review Risk Assessment

- Civil Unrest (continued)

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Review Risk Assessment

- Drought (continued)

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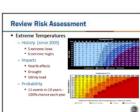
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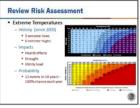
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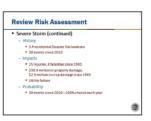
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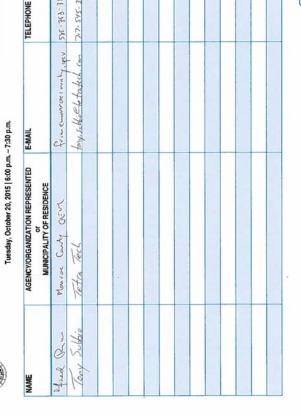






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MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Risk Assessment Review Public Meeting





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MEETING NOTES

Meeting	Monroe County Hazard Mitigation Plan (HMP) Planning Committee Meeting
Date	November 19, 2015 Time 9:00 a.m. – 11:00 a.m.
Location	Monroe County Office of Emergency Management, Rochester, New York
	Kristina Daugherty, Program Specialist, Monroe County Office of Emergency Management (MCOEM)
	Tina Carson, Monroe County 9-1-1
	Michelle Virts, Monroe County Department of Environmental Services (MC DES)
	Robin Finnerty, Monroe County Department of Planning and Development
	Eric Ammerman, Monroe County Department of Public Health (DPH)
	Kathy Carelock, Epidemiology Division Manager, Monroe County DPH
	Michael R. Sayers, Monroe County DPH
	Shaun Sharp, Monroe County DPH
	Justin Cole, Monroe County Geographic Information System (GIS)
	Rodney Corny, Monroe County Office of Mental Health
	Devan Helfer, Monroe County Parks Department
	Jen Curley, Monroe County Sheriff's Office
	Lou Tomassetti, Monroe County Sheriff's Office
	Michael Slattery, Monroe County Department of Transportation (MCDOT)
	Chad Roscoe, Town of Brighton
Attendees	Dawn Forte, Town of Chili
	Paul Robinson, Village of Churchville
	Nancy Steedman, Mayor, Village of Churchville
	Fritz May, Village of Fairport
	John Gauthier, Town of Greece
	Jason Helfer, Town of Greece Police Department
	Tom Maier, Fire Marshal, Town of Hamlin
	Mike McHenry, Village of Hilton
	Greg Emerson, Administrator, Village of Honeoye Falls
	Charlie Johnson, Code Enforcement Officer, Village of Honeoye Falls
	Gregory D. Merrick, Fire Marshal, Town of Irondequoit
	Dennis Scibetta, Building and Development Coordinator, Town of Parma
	Greg Seigfred, Town of Perinton
	Kelly Cline, Town of Pittsford and Village of Pittsford
	Kimberly Pape, Town Clerk, Town of Riga



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MEETING NOTES

Meeting	Monroe County Hazard Mitigation Plan (HMP) Planning Committee Meeting
Date	November 19, 2015 Time 9:00 a.m. – 11:00 a.m.
	Jamie Renner, City of Rochester Fire Department
	Gary Penders, Village of Spencerport
	Jackie Sullivan, Village of Spencerport
	Jake Swingly, Superintendent of Public Works, Village of Webster
	Terry Rech, Town of Wheatland
	William Platt, American Red Cross
Attendees (continued)	Dave Kester, Rochester Genesee Regional Transportation Authority Regional Transit Service
`	Lynn Daley, Director, Business Continuity, Rochester Institute of Technology (RIT)
	John Moore, Assistant Vice President, RIT
	Melinda Ward, RIT
	Paul Hoole, Federal Emergency Management Agency (FEMA) Region II
	Thomas Song, Community Engagement and Risk Communications (CERC) – FEMA Region II
	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)

Purpose

The purpose of the Planning Committee meeting was to discuss FEMA's strategy for identifying mitigation actions to include in the updated HMP. This meeting aligned with the "Review Possible Activities" step of the mitigation planning process.

Discussion Points

Discussion points addressed during the Planning Committee meeting are summarized below

Outreach

The Planning Committee reported no outreach efforts. The Village of Churchville's meeting with property owners to discuss flooding issues—discussed during the October Planning Committee Meeting—had to be cancelled.

Mitigation Actions

Mr. Song introduced himself and his role in the CERC division of FEMA Region II. He discussed the FEMA RiskMAP program and its goal of quantifying areas vulnerable to flooding. He described the planning process and the ways the process can be used to help a community implement its strategies. Mr. Song invited jurisdiction representatives to call upon him as a resource for conducting outreach. He then introduced Mr. Hoole from FEMA Region II.

Mr. Hoole welcomed everyone to the meeting. He stated that copies of his slides would be provided via e-mail after the meeting. He discussed the efficiencies realized in developing multi-jurisdictional HMPs, differences between an updated HMP and a newly created HMP, and the concept of planning versus the plan document itself. He stated that he had reviewed the County's miligation goals and objectives, and said that they look appropriate to him.

PAGE 2 OF 4



MEETING NOTES

Mr. Hoole then discussed identifying mitigation actions and documenting them on an Action Worksheet. He discussed the importance of having a diverse team of people involved in the process. The first step is identifying the problems and vulnerabilities of the jurisdiction to various hazards. This step includes soliciting public and stakeholder input, reviewing the jurisdiction's capabilities, and reviewing the general risk assessment information. Mr. Hoole provided some sample problem statements.

The second step is to identify potential actions to reduce long-term risk and vulnerability. Potential actions may be structural projects, plans and/or regulations, education and outreach, or natural resource protection.

The third step is to evaluate the potential actions. The jurisdiction will determine evaluation criteria, and must consider project benefits versus project costs. This can be a rough estimate, not implementing FEMA's formal Benefit-Cost Analysis (BCA) methodology. Other evaluation criteria should include technical feasibility, political support, legal authority, environmental impacts, social impacts, community support, and assessment of the ways each action supports other community goals and objectives. Next, the jurisdiction selects the best action for implementation, and notes why other potential actions were rejected.

The final step, preparing for implementation, is conducted by (1) identifying the agency or department that will lead the action, (2) prioritizing the action, (3) identifying a timeline for completion and funding sources, and (4) identifying local planning mechanisms that facilise the action's implementation. Prioritization should use a Tier 1, Tier 2, or Tier 3 classification instead of a High, Medium, or Low categorization. Planning mechanisms that facilitate implementation may include the comprehensive/master plan and capital improvement plan, among other options.

Mr. Subbio then discussed the four categories of mitigation actions that Mr. Hoole identified versus the categories of mitigation actions described under the CRS Program. Mr. Subbio pointed out that the CRS Program awards points for each of the following categories of mitigation action, and a jurisdiction gets more points for having more categories represented:

- Prevention
- Property protection
- Natural resources protection
- Emergency services
- Structural projects
- Public information

Next Steps

The following next steps were identified during the meeting:

- Tetra Tech will begin to develop the jurisdictional annexes and work with jurisdiction representatives to complete them.
- Tetra Tech will distribute the Action Worksheet for each jurisdiction to complete for each of its mitigation actions.
- Tetra Tech will conduct two Annex Workshops on December 15, 2015, to answer any questions on the
 annexes, and assist jurisdictions' representatives in completing the annexes.

PAGE 3 OF 4



MEETING NOTES

- The December 2015 Planning Committee meeting will be held from 9:00 a.m. to 11:00 a.m. on December 16, 2015.
- A public meeting to review the full mitigation strategy will be conducted on the evening of December 16, 2015

With no further questions, Mr. Subbio thanked the attendees for their time. The meeting concluded at 11:00 a.m.



AGENDA

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Mitigation Actions

Agenda

Thursday, November 19, 2015 | 9:00 a.m. - 11:00 a.m.

- 1. Welcome
- 2. Outreach
- 3. Mitigation Actions
 - Federal Emergency Management Agency (FEMA) Presentation
 - b. Categories
- 4. Next Steps
 - a. Jurisdictional Annexes
 - b. Annex Workshops
 c. Next Planning Committee Meeting Mitigation Strategy Review
 d. Public Meeting Mitigation Strategy Review
- 5. Questions

























2

Mitigation Strategy Workshop Notes



Welcome!

FEMA Region II has prepared this workshop to present the key points needed for the county and each city, town and village to prepare or update their mitigation strategy. Notice that I say "your" mitigation strategy because each jurisdiction is unique and the mitigation strategy for each jurisdiction should be unique. In fact, it is appropriate to think of this multi-jurisdictional plan as separate plans for each jurisdiction.

Working together saves tax dollars through the hiring of a single consultant. Placing all the plans together in one binder allows common elements identical to all the plans to be included only once. Some of the common elements include the documentation of the planning process and the general profiling of hazards that affect the entire county, such as severe storms. The unique elements are each jurisdiction's vulnerabilities and the actions each jurisdiction will take to reduce those vulnerabilities.

The mitigation strategy is the section in the hazard mitigation plan where goals are set, the mitigation actions selected by each jurisdiction are listed, and a bare bones administrative plan for implementing each mitigation action is noted. (To keep the body of the plan more focused and readable, the details captured in Action Worksheets can be included in an Appendix.)

A two hour workshop can only cover the essential points in brief. A more thorough explanation is available in FEMA's publication, Local Mitigation Planning Handbook. You are encouraged to review the Handbook: https://www.fema.gov/media-library/assets/documents/31598?id=7209

Beyond the Basics [http://mitigationguide.org/] is the information from the FEMA Handbook online in a more user friendly format. This website was designed by the University of North Carolina at Chapel Hill (UNC) to help guide local communities through the process of developing or updating their local hazard mitigation plan. In addition to covering the material from the FEMA Handbook, it includes additional material on best practices and addresses weaknesses or shortfalls commonly found in hazard mitigation plans. Suggestions are given on ways plans could be strengthened; hence the name, Beyond the Basics.



It is important to keep the mitigation plan in perspective. It is a means to an end. FEMA's overarching goal for mitigation is to encourage and assist communities in becoming more resilient to the effects of future hazards. Resilient communities are less susceptible to losses and are able to rebound faster. Mitigation plans play an important part in making a community more resilient. Well thought-out plans that get implemented include actions that address specific problems /vulnerabilities, and actions that will integrate mitigation into daily governance.

Addressing current problems / vulnerabilities is important, but the integration of mitigation into daily operations should not be underestimated. Changes in policies, procedures, and plans (such as revised zoning and land use plans) will pay dividends for decades to come. We will be talking about both types of actions during this workshop.



Let's set the stage for today by reviewing some basic items. We will go over how a multi-jurisdictional plan compares to a single jurisdictional plan; how an updated plan compares to the previous or original mitigation plan prepared by a jurisdiction; and how planning differs from the plan itself, which is a written document.



The Multi-Jurisdiction Plan is in effect a single jurisdictional plan for each of the jurisdictions participating in the plan's development, with all these plans begin combined under one cover to take advantage of the great overlap in risk among jurisdictions in the same general geographical area. Combining the planning effort also allows each jurisdiction to follow the same planning process (public outreach) and each jurisdiction can use a single planning consultant.

However, multi-jurisdictional plans only work when they recognize the uniqueness of each jurisdiction. Each city, town, and village is unique. You have other plans that must mesh with the mitigation plan. The integration of plans, such as mitigation plans being integrated with land use plans supports both planning efforts and increases the likelihood of their mutual implementation.

Each jurisdiction also has their own unique set of capabilities (strengths & limitations); unique vulnerabilities (hazard areas specific to the jurisdiction, and structure & populations at particular risk). This all leads to the identification of unique problems with unique solutions.

This is why it is critical that each jurisdiction contribute in a meaningful way to the identification and selection of mitigation actions that will make their community more resilient



All the requirements for an original plan apply to the updated plan. There must be an outreach to the public, a fresh (i.e. updated) assessment of risk, and in all likelihood a revised set of mitigation actions. In addition, updated plans must report on the status of actions identified in the previous plan; consider the effect of recent development on vulnerabilities and project how currently planned development would affect vulnerabilities. Updated plans must use the latest and best information available to assess risk and the documentation of the planning process will be new because this is a new planning effort. Updated plans should stand on their own. They are new plans.



There are no wrong goals, but the best goals guide the selection of mitigation actions. Goals which are very general may not provide enough guidance, unless they are supplemented by objectives.

Confirm your goals and objectives before selecting mitigation actions



After confirming or revising your goals, follow this common sense thought process and document this process using the Action Worksheet we will be going over today.

These are logical steps you intuitively do in your head when working on a small problem at home; a weekend project. For mitigation planning we want to be a bit more deliberative and some document is necessary to meet federal planning requirements, but it is still the same common sense process. deliberative process guards against prematurely selecting the first solution that comes to mind, when a better solution might exist. While first thoughts are often the best, the extra time required to "think" does not require a great deal of time



Planning is a process that involves analysis and thinking. Each jurisdiction must think for itself. Neither the County nor the consultant can do this thinking for you. This is why it is important to understand that a multi-jurisdictional plan is in its essence a combination of single jurisdictional plans.

Plans are a written document presenting the rationale supporting a set of proposed actions. Plans explain the needs (risk) and intentions (proposed mitigation actions) to elected officials and citizens. Plans also serve as reference documents. For example, by documenting the planning process, when the plan is next updated the planning process does not have to be reinvented.



Today's workshop is focused on applying a systematic approach to developing the Mitigation Strategy portion of you plan. The Mitigation Strategy - goals, actions, and a plan to implement these actions - is the heart of the mitigation plan. It builds off of your Risk Assessment. The systematic approach helps ensure the best mitigation actions are selected for each problem to be mitigated. The use of Action Worksheets are required to ensure sufficient documentation. The process when followed should build support for the actions and facilitate implementation.



To think that you as a representative of your community must be all knowing. Reach out to your co-workers for help. Two heads are better than one and three heads are better than two. Within each municipality a functionally diverse team should be involved in gathering and analyzing information, weighing alternatives, and making informed decisions. This slide goes over the types of people that should be on the team and why. To the extent your jurisdiction as people performing these functions, these thould be involved. they should be involved.

You as the representative for your municipality know best how to involve others on this team. It may involve one-on-one discussions with various team members, supplemented by meetings of the entire team. For example, identifying current problems could be done through one-on-one discussions, while brainstorming is always done as a group.

A diverse team improves decision-making and will build support for the decisions made. Potential members of the team at the very least must be invited to participate and the extending of this invitation must be documented in the plan. FEMA has a handout that can be completed to document the invitation and hopefully the participation of a diverse team.



Action Worksheet
The New York State Department of Homeland Security & Emergency Services (DHSES) requires the use of Action Worksheets. There will be one worksheet for each problem. Completing the worksheet documents the consideration of alternatives, which when done collaboratively with your jurisdictional teammates, builds support from all the members of the team for the proposed mitigation action. Finally the worksheet documents a brief administrative plan for managing the implementation of the mitigation action. FEMA calls this the "action plan", although the term "administrative plan" is more accurate.



Step 1 is identifying current problems, which involves checking with the Public and Stakeholders on what they consider to be the most pressing problems, and considering your Community's Capabilities for mitigating risk, and the review of a throughout but General Risk Assessment. We will cover these in the next few slides.



The public and stakeholders are a good source for identifying specific problems and concerns.

What problems have been cited by the public? What problems have been cited by stakeholders? Stakeholders include other officials in the jurisdiction as well as outside stakeholders, like local colleges, local businesses, and external regulatory agencies. Neighboring counties should also be offered the opportunity to provide input to and comment on the draft plan before it is finalized.



- The planning process requires an assessment of local capabilities. This is for two reasons.

 First, communities are not expected to go beyond their capabilities when determining the number of mitigation actions to take on and the amount of work required to carry out those actions.
 - Second, steps taken to strengthen local capabilities are mitigation actions

Capabilities are existing authorities, policies, programs, and resources, which are sometimes called "planning mechanisms." This slide includes a generic list of capabilities that local communities might have. Documenting municipal and county capabilities are a plan requirement.

- Plans, like Land Use Plans, or Comprehensive Plans, or Master Plans when listing the plans your community has, cite them by their formal name. Avoid using generic lists
- Policies, like those that indicate who is to be conclude in the review of building applications. Give the official name for the policy and describe how it works relative to mitigating hazards
- Ordinances For example, the zoning code.
- · Programs again the National Flood Insurance Program will be among the programs cited for most communities in New York State
- Studies give the name of studies that have been completed or are underway
- · Staffing / Equipment skills/abilities and the number of staff and equipment.
- · Financial Resources this could be the annual budget, taxing authority, etc.

The description of local capabilities provides a foundation for mitigation planning. It can describe what measures are already in place to manage risk and it allows small jurisdictions with limited resources and capabilities to distinguish themselves from larger and more capable communities. Since each jurisdiction is unique, their capabilities are unique and should be documented in the plan jurisdiction by jurisdiction. A generic list of capabilities is not appropriate.



The plan must document both your community's capabilities and your assessment of how they are used or might be used to make your community more resident through mitigation actions. This should be more than just checking a box on a list of potential capabilities provided by a consultant. The idea is to THINK about how your current capabilities might help and where they need to be strengthened to improve

Improving capabilities can be actions to integrate mitigation into daily governance. For example

- If there is inconsistent enforcement of ordinances Ask yourself, what is the root cause of this problem? Perhaps the procedures are unclear, or staff has not been trained, or there is not enough staff to perform the enforcement.
- If public outreach misses non-English speaking citizens The root cause could be the method by which educational media is delivered, or the need to produce written material in a second language.
- If there are major gap in information, the plan should describe how this gap will be resolved at least before the next formal update of the hazard mitigation plan. For example, maybe it is unknown whether critical facilities have reinforced masonry, which makes them more susceptible to earthquake damage. A study might be called for to fill in the gaps and this would be a
- · Out of date Plans could also be a problem. An action might be to bring them up to date.
- · NFIP (National Flood Insurance Program) always assess your community's capability to Next (valuonal rioot insurance riogram) - aways assess your commanny's capability to effectively administer this program. Flooding is the biggest problem in the United States and the biggest problem in New York State. It is very often the biggest problem in local jurisdictions. This is why it is a plan requirements that the NFIP as it is administered in your community be described. Naturally, if improvements are needed they should be proposed as mitigation actions

The description of the NFIP as it is administered is important, but look across all your capabilities.



The National Flood Insurance Program (NFIIP) is an important program and the community's ability to effectively administer this program is an important capability. It is a federal requirement that for jurisdictions that participate in National Flood Insurance Program, they must describe the program and its administration. Each jurisdiction will have its own write-up because each jurisdiction is unique in how it administers the program.

- For example, the write-up might discuss:

 Name and contact information for the floodplain administrator
- Adoption and enforcement of floodplain requirements, including regulating new construction in the floodplain
- Floodplain identification and mapping, including the status of map updates
- Describe the jurisdiction's assistance and monitoring activities
 It is not enough the plan to say "we will continue to comply with NFIP"



Each plan must include a formal risk assessment. At this point in your planning process, where you are about to identify mitigation actions, your outreach to the public, your community's capability assessment and your General Risk Assessment should be completed. The general risk assessment profiles at least natural hazards that reasonably could impact your area, and it assesses general vulnerabilities.

Document the status of the actions from your previous plan, including steps taken to integrate mitigation into daily governance. Were these actions completed? Does the problem that was to be updated plan, and if so, should incomplete actions from the previous plan be carried over to the updated plan, and if so, should they be tweaked to improve their chances of being implemented?

- Consider your critical facilities. Are they sufficiently protected? Critical facilities can be
 thought of as facilities that need to be operational during and immediately after a hazard event.
 Remember, NYS requires mitigation actions / projects for any critical facility that has ever
 sustained flooding. Critical facilities should be protected to a 500-year flood event.
- Vulnerabilities also will change when there has been development in hazard prone areas.
 Consider the effect of recent development and whether mitigation actions should be taken. Also consider what new development is planned in hazard prone areas and whether that development should go forward and if so, can mitigation features be built designed into the construction.
- Are there locations that have been damaged more than once? Give these locations special
 consideration. Particularly consider how NFIP properties that have been repeatedly damaged
 might be mitigated. Consideration of "Repetitive Loss Properties" is a federal planning
 requirement.
- Finally, do your best to not to overlook hazards that occur less frequently, but nevertheless
 present a risk. There is a human tendency to focus on the most recent disaster, when other risks
 exist.

Summarize to the general assessments of risk by describing specific vulnerabilities or problems facing your community. It is this summary that converts the general risk assessment to a specific risk



This slide provides examples of a few problem statements, but let's look at problem statement in more detail

After identifying problems take a moment to make sure no other problems were over looked. For example, when completing the Risk Assessment portion of the plan "hazards of concern" were identified by you. If the hazard is truly of concern, then there likely will be a problem statement under that hazard. This is not a requirement, but it makes sense. Perhaps in hindsight the hazard is not truly of concern and the Risk Assessment should be revised accordingly.



Problem statements are the starting point for deciding on mitigation actions. The process includes identifying potential alternative mitigation actions, evaluating these potential actions, and selecting the best action to address the problem. The Action Worksheet is the place to document the actions considered and why they were or were not selected for implementation.

Before identifying mitigation actions, let's review how mitigation actions differs from other types of emergency management actions.



Mitigation actions (as defined by federal regulations) are different from other emergency management actions, such as emergency preparedness actions and emergency response actions. The official definition of mitigation actions is provided on the slide. Mitigation actions should be specific actions/projects/activities. For example, elevating or acquiring a home for removal is a mitigation action.



There is little FEMA guidance on how to write a good problem statement, but it seems reasonable that the well-constructed problem statement should include certain attributes,

First, there should be one problem statement per Action Worksheet because depending on the problem the solutions could be different. However, use your judgment because the same problem may be occurring at different locations and the solutions considered, the mitigation actions elected, and the department assigned the leaf for implementing the selected mitigation actions would be the same. If this is the case, it makes to combine the locations and treat this as one problem. For example, if there is a problem with street drainage at several locations and the mitigation action is to expand the culverts as several locations, this can be thought of as one project and it would require only one Action Worksheet. On the contrary, if the solution at each location would vary, then separate Action Worksheet should be prepared.

Problem statements should be clear to anyone who is unfamiliar with the problem. This means it should be clear to elected officials and citizens alike.

Use the problem statement to help explain the cause of the problem by identifying the hazard involved. Also state the location of the problem and the consequences of not addressing the problem. This will help justify the mitigation action.

Finally, do not state or imply the solution to the problem in the problem statement. To do so would rule out other solutions that should be considered. Identifying solutions is a step separate from identifying the problem.



Use the mitigation plan to identify real problems that deserve solutions. Keep the plan practical. Do not allow the plan to become an academic document or an unrealistic wish list.

Purchasing equipment to be used to respond to an emergency is not a mitigation action. It is a preparedness & response action. Mitigation actions lessen or eliminate the need for preparedness & responses actions.

When analyzing risk and identifying mitigation actions, the planning team may also identify emergency preparedness and response actions and these may be included in the plan. However, preparedness and response actions may not be a substitute for mitigation actions. Federal mitigation planning requirements call for each jurisdiction to have mitigation actions specific to their jurisdiction and vulnerabilities.



Federal regulations also require that a comprehensive range of mitigation actions be considered when selecting the mitigation actions to be implemented. To help jurisdictional teams think broadly when brainstorming potential actions, it may be helpful to consider these four potential categories for actions.

It is possible that for some problems the potential actions identified may all fall under a single category (e.g., education and awareness). This is acceptable so long as potential actions from other categories are considered for other problems. In the end meeting the intent of the federal requirement is the important thing. The intent is to have jurisdictional teams think comprehensively when identifying potential actions.



The next step is to identify mitigation actions or projects. Gather your jurisdictional team to review the problem statements and assess local capabilities. Then, brainstorm mitigation actions or projects for each problem.



This slide recaps the "Brainstorming" step and provides a pause for discussion and questions.



Step 3 is to evaluate the potential actions. Step 4 is the result of the evaluation, the selection of the best action or project. These steps are covered together since they are so closely tied to each other.

- Pre-construction costs and non-construction costs like design costs
- Construction costs
- Ancillary costs like permit and review fees

Costs are not just the cost to the jurisdiction (e.g. the match for a grant). They are the total cost.



In addition to considering the benefits and costs, other factors should be considered.

- Technical is it technically feasible
- Political Will the public support the action? Is there political will to implement the action?

 Communities may want to include an action even if political will se currently lacking. Political will often changes immediately following a disaster and if the project is in the plan, it can be quickly endorsed and implemented. Where money was not previously available, it may be made available.
- Legal Authority Is this action or project something that you have the legal authority to do? If
 it is up to some other entity to take the mitigation action, then the action for the municipality
 might be to encourage them to take this mitigation action.
- Environmental Impacts Obvious negative impacts could be a fatal flaw. Even if not obvious, many mitigation actions may require environmental reviews as the project is developed. There could also be positive environmental impacts from some actions, such as stream restorations that improve recreational fishing.
- Social Positive social impacts are good, like creating a park in a floodplain by removing structures located there. Actions could also be negative, like adversely affecting one segment of the population or disrupting neighborhoods.
- Willing & Able Is there a local champion for the project? Is the jurisdiction or responsible department administratively able to take on this project?
- · Other Communities are unique and may want to consider other factors.



The evaluation of potential actions is the process used to select the best action or project for a given problem. The evaluation criteria used are up to the jurisdictional team, except that federal requirements state that benefits versus costs of a mitigation action must be considered. Naturally, many other factors should be used as well.

In considering costs versus benefits, rough estimates may be used. FEMA refers to this as a Benefit-Cost Review to distinguish it from a formal Benefit-Cost Analysis (BCA). When applying for grants a formal Benefit-Cost Analysis may be required, but it is not a requirement when preparing a hazard mitigation

As the reasons for not selecting a project become apparent, document this consideration by adding a note on the Action Worksheet next to the potential action. This will complete the required documentation that a range of potential actions was considered.



Benefits are the savings from losses avoided. For example

- Lives saved / injuries avoided

- Structural damage avoided
 Business downtime avoided (or any negative impacts from the loss of a function)
 Additional costs avoided, like avoiding long detours or avoiding emergency management costs

Costs are the total cost for the action or project. For example:



The evaluation process is straight forward. Decide on your evaluation criteria and be sure to include an assessment of benefits and costs in the as criterion. After the evaluation and selection of the best solution for mitigating the process, complete the appropriate sections of the worksheet. For potential actions considered but not selected, provide a very brief comment on why.

The action selected should is documented on its own row on the worksheet. Here a more extensive description should be given. The action should be specific. It should be clear when the action has been completed. Give the selected action a unique number and name; and summarize the benefits and costs, and any other criteria of special significance.

In the end take care to ensure the mitigation action selected represents a real solution for a real problem.



The 5th and final step is preparing for implementation.

Step 5 Prepare for Implementation Action Plant # Hank, Tier 1/Tier 2/Tier 1; chronological by start date or on date (Method is optional) elline for Completion – best estimate ential Funding Source – List multiple, if applicable & FEMARque I

An Action Plan is the final element of a Mitigation Strategy. It is a brief administrative plan for implementation. The required elements are

- Responsible Organization An agency or department should be selected to take the lead with implementation. Most actions or projects naturally fall within the purview of an agency or imprimensation, Most actions or projects naturally fall within the purview of an agency or department. It is this organization that will periodically provide status reports. The jurisdiction itself should not be assigned the responsibility for implementation because this leaves it unclear who will manage implementation on a day-to-day basis. Only one agency can have the lead. If other agencies are to be involved, they may also be listed so long as it is clear which agency is in the lead.
- Action/Project Priority The jurisdiction's team is best suited for setting priorities. The criteria used should be documented in the body of the plan. In addition to the selection criteria used in Step 3, the team might also consider factors like:

 How much can a particular agency or department manage?

 - Would it be better overall to do some easy to implement actions first to build support for the entire mitigation plan?
 Designating the priority using terms like Tier 1, Tier 2, etc
- Timeline for Completion The project manager from the responsible organization may be in the best position to estimate when the action will be completed. The target completion date should be added to the Action Worksheet. The start date could also be added, as could target dates for significant milestones. Mitigation actions in the plan should be limited to those that will be started during the five year life of the plan. Major projects and those that start later may not be finished until after the fifth year.
- Potential Funding Sources NYS requires that plans include a list of potential Local, State, and Federal fund sources that apply to the project, as well as public-private partnerships worth pursuing. This should include a brief description of the programs and links to webpages for those opportunities.
 - NYS notes that the lack of an identified funding source or program should not prevent the project's inclusion in a community's list of possible mitigation actions
- · Local Planning Mechanisms are covered by the next slide



ns / Vuinerabilities: First we described the risks or vulnerabilities as problem statements, doing our best to be specific.

Next we brainstormed potential actions and evaluated them. Those potential actions considered and rejected (at least for the time being) are described and a short explanation is given as to why they were not chosen for implementation.

- Action or Project Intended for Implementation

 This is where the selected action or project is added to the worksheet. There will be one worksheet for each action.

 - sheet for each action.

 Assign a number and name to each action This allows the actions to be easily crossreferenced to the Action Worksheets. (Action Worksheets will likely be in an appendix.)

 In multi-jurisdictional plans it is best to make the jurisdiction's initials part of the
 action numbers on the number I action, etc. so various jurisdictions do not get
 confused. For example, the actions for the City of Syracuse might be numbered
 - <u>Describe the specific mitigation action</u> This may require a few sentences to fully
 describe the action. The description should be clear to an outsider. For example, if
 newly elected officials take office during the life of the plan, they should be able to
 understand the mitigation actions selected for implementation.
 - Summarize the evaluation of the mitigation action The Action Worksheet should document the specific reason for selecting the action or project, including a summary of benefits and costs.

Plan for Implementation

The final section of the Action Worksheet is the Plan for Implementation. In this section information is added explaining which department or agency will be responsible for implementation, the priority category assigned to the actions, an estimate of how long it will take to implement the actions (subject to budget and environmental reviews), potential fund sources, and existing

Progress Report

Although not covered during the workshop, the final section of the Action Worksheet may be
Progress as overall implementation of the plan is monitored used when periodically reporting progress as overall implementation of the plan is monitored and evaluated for effectiveness. [Five years after a plan is approved it must be updated in order for a



Planning Mechanisms are governance structures used by local jurisdictions to manage land use development and community decisions-making, such as comprehensive plans, capital improvement plans, and other long-range plans. These plans and other documents / processes can be used to advance implementation actions. If appropriate, make note when there is a planning mechanism that will be used to facilitate implementation of a mitigation action.

Some examples will illustrate the point.



Where possible, the community should implement mitigation actions through existing plans and policies, which already have the support of the community and policymakers. The Action Worksheet has a space to name the local planning mechanism to be used in implementation.

For example, if the action selected for implementation was, "Increase Culvert Size on River Road," then on the line for local planning mechanisms you might have, "Add this project to the capital improvement plan. Other examples are included on the slide.

community to remain eligible for certain mitigation grants. At that time the status of each action from this plan will need to be summarized in the updated plan.]



Up to this point in the workshop we have been focused on mitigation actions that address specific problems. These are very important and the Action Worksheet was designed to accommodate these

Integration Actions are another important type of mitigation action. These are actions to integrate mitigation data, information, goals, and concepts into existing planning mechanisms. Thus they integrate mitigation with the fabric of governing. For example, when appropriate, mitigation goals may be integrated with the jurisdiction's comprehensive plan or its capital improvement plan.

Integration Actions do <u>not</u> go on an Action Worksheet because they are fairly simple to implement. They should be included in the plan as a simple list. An explanation of why Integration Actions are important and sample listing of Integration Actions follow on the next two slides.



Integration increases efficiency and avoids conflicting outcomes.

At the start of the planning process existing plans, studies and reports should have been reviewed to determine what information they contained should be incorporated into the Hazard Mitigation Plan. Now that the Hazard Mitigation Plan is nearly complete, the reverse consideration should take place. Each

jurisdiction should ask what information in the Hazard Mitigation Plan should be incorporated into other

The integration actions will be unique to each jurisdiction. They should be listed in the plan by jurisdiction, where the planning mechanism that will incorporate the information is named and a brief explanation is given stating how the integration will take place.

Examples are given on the next slide.



Here are some examples of Integration Actions



- In summary, some of the key point we hope you take away from today's workshop are:

 The overarching goal is for Mitigation to become a way of doing business in all jurisdictions.
 - Involve a diverse team in making key judgments and decisions for your jurisdiction
 - The Mitigation Strategy is the heart of the Mitigation plan. Other sections of the plan support the decisions reflected in the Mitigation Strategy.

 Make sure there is a link between the Risk Assessment section in the plan and the
 - Mitigation Strategy.
 - · Problem Statements, when used to summarize the Risk Assessment, are a powerful link to the mitigation actions

Functionally Diverse Jurisdictional Planning Team

FEMA Region II and/or NYSOEM require that each local jurisdiction¹ invite the participation of their elected officials; local land use planner (and planning consultants, if applicable); local emergency manager, fire and police chiefs), local hazard mitigation coordinator and floodplain administrator; local code enforcement officer; local highway superintendent / public works director; and local engineers (or engineering consultants, if applicable)².

These jurisdictional personnel will be summarizing the specific problems their jurisdiction faces. For each problem they will develop and consider (evaluate) a range of potential mitigation actions before selecting the best mitigation action for implementation. The important perspectives they bring to the table are as follows:

- . Elected and executive officials are mindful of the community as a whole and communicate how the mitigation plan can support other social, economic, or environmental goals for the community.
- Local community planners can help the jurisdiction understand past, current, and future community development trends, the policies or activities that affect development, and the relationship between hazards and development, and how hazard mitigation can be incorporated into various planning mechanisms, (a key to successful mitigation planning).
- Emergency managers are first responders to disasters, have information on past occurrences and
 existing preparedness measures, and have a direct line of communication with the NYS Office of
 Emergency Management.
- GIS specialists can analyze and map data to support the planning process and communicate complex
 information, such as the locations of assets at risk in hazard prone areas and estimates of damage for
 a particular disaster scenario. [This might be done in consultation with County GIS staff.]
- Floodplain administrators provide information on local flood hazard maps, floodplain ordinance, repetitive loss properties, and actions to continue compliance with the National Flood Insurance Program and reduce flood losses.
- Public works staff can help identify current or projected problems for the community's infrastructure
 that can be addressed through capital improvements supported by the mitigation plan.

- Assess Capabilities Opportunities to strengthen capabilities can be mitigation actions.
 The NFIP program is very important. Make sure it is well described and working well.
- · Finally, write specific mitigation actions and include integration actions in the plan



Thank you for your attention and commitment to mitigation planning.

This can be confusing. Rely on your consultant and FEMA publications for guidance, and do not hesitate to contact New York State with questions. The State is your primary contact. FEMA is here to support the State and County in any way we can.

Save this page (cut & paste to a new document). Modify the first column to ma the remainder of the table and submit it for inclusion in the Hazard Mitigation Pli ch the actual positions in the jurisdiction. Complete

Insert Jurisdiction Name Here Individuals Notified of the Mitigation Plan Development and Invited to Participate

Local Jurisdiction Role/Position	Name	Email	Phone	Date Invited	Agreed ? yes/no
Land Use/Community Planner					
Emergency Manager Floodplain Manager / Administrator					
Public Works Dir./ City Engineer					
Building Code Official					
Fiscal/Budget Officer					
Manager / Administrator					
Elected Officials					
	George Washington	gwashington@local.gov	123-555-1234	12/12/12	Yes
Example	George Washington	gwasningtofi@local.gov	123-355-1234	12/12/12	res

County's representatives should include Hazard Mitigation Coordinators and Floodplain Professionals; County Emergency Manager, Planners, and GIS staff; representatives from County Soil & Water Conservation Districts and if applicable, the Delaware and Susquehanna River Basin Commission; and Regional and Metropolitan (Transportation) Planning Organizations.

² FEMA Region II requires that a section of the plan (e.g. plan appendix) document that invitations were extended. A Sample Table at the end of this Guidance could be used for this purpose. It is understood that not all participating jurisdictions have each of these positions filled and that some individuals take on multiple and/or part-time duties in smaller communities. At a minimum, staff, stakeholders, and leaders in these key disciplines at the jurisdictional level should be aware of the Hazard Mitigation Plan and engaged in the planning process when possible.

	Action Worksheet
Name of Jurisdiction:	
Name of Haz. Mit. Plan:	
	Risk / Vulnerability
Problem being Mitigated:	
	Potential Actions/Projects (not being Implemented at this time)
Actions/Projects Considered	
with Summary Evaluation of	
Each:	
	Action or Project Intended for Implementation
Action/Project Number:	
Name of Action or Project:	
Action or Project Description:	
Summary of Evaluation ¹	
Benefits (losses avoided)	
Estimated Cost	
Other Factors Considered	
	Plan for Implementation
Responsible Organization:	•
Action/Project Priority:	
Timeline for Completion:	
Potential Fund Sources:	
Local Planning Mechanisms to	
be Used in Implementation, if	
any:	
	Progress Report
Date of Status Report:	
Report of Progress:	
Evaluation of Effectiveness:	

Example

	Example
	Action Worksheet
	St. Control of the Co
	1: River Road Home Elevations
Name of Jurisdiction: Name of Haz, Mit, Plan:	Town of London, Bristol County NY Bristol County Multi-Jurisdictional Hazard Mitigation Plan
Name of Haz. Mit. Plan:	
Problem being Mitigated:	Risk / Vulnerability The Taunton River is subject to ice jams near River Road. On multiple
Fromem being Mingated:	occasions homes in this area have been flooded. Homeowners have incurred
	high rebuilding costs, over and above insurance claims. Traffic along this
	thoroughfare is disrupted during flood events.
	Potential Actions/Projects (not being Implemented at this time)
Actions/Projects Considered	Taunton River Rock Removal – Remove the large rocks from the river that
with Summary Evaluation of	catch ice flows. This alternative is not being pursued because the financial
Each:	costs would be very high and the effectiveness of this is in doubt. It would
Z.HC III	also jeopardize the viability of the river as a fishing destination.
	and propagation in the many of the first to a triangle designation
	Acquire Homes - Offer to purchase the affected homes. Upon taking
	ownership, remove the homes and return the land to its natural state. This
	alternative is not being pursued because homeowners do not want to leave the
	community. Removal of these homes would also diminish the town's tax
	base.
	Educate River Road Homeowners - Distribute a brochure to River Road
	homeowners describing the probability of future flooding and suggesting
	possible mitigation steps they may take. This option is not being pursued
	because the homeowners are well aware of the risk and the mitigation actions
	they may take. They have already several smaller / affordable mitigation
	actions. They cannot afford to do more.
	Action or Project Intended for Implementation
Action/Project Number:	L-1: River Road Home Elevations
Name of Action or Project:	
	Offer to partially fund the elevation of homes that have been multiple times
Action or Project Description:	over the past thirty-years. When homeowners accept this offer, homes will
	be elevated above base flood evaluation and according to NYS building code.
Summary of Evaluation	Partially funding home elevations makes this option affordable to
Benefits (losses avoided)	homeowners and avoids a lessening of the town's tax base. The mitigation
Estimated Cost	action would avoid future flood damage of about \$750,000. The cost of the
Other Factors Considered	elevation program is expected to be just under \$500,000. The program would
	be voluntary, making it more socially and politically acceptable.
B #1.0	Plan for Implementation
Responsible Organization:	Town Planning Department
Action/Project Priority: Timeline for Completion:	High
I imeime for Completion:	An application for a FEMA grant will be made in year 1 and the program should be completed within 3 years.
Potential Fund Sources:	FEMA Hazard Mitigation Grant Program (HMGP) funds
r otential F und Sources:	FEMA Pre-Disaster Mitigation Program (PDM) funds
Local Planning Mechanisms to	The administration of this activity will be added to Planning Department's
be Used in Implementation, if	annual work plan.
any:	aliiliai work pari.
any.	Progress Panaut
Date of Status Report:	Progress Report No report at this time.
Report of Progress:	The report of this tille.
Evaluation of Effectiveness:	
D. HILLIAND OF EDITORITY (1933).	I.

Instructions

	Instructions
	Action Worksheet
Name of Jurisdiction:	Give the name of your municipality
Name of Haz. Mit. Plan:	Name of the Hazard Mitigation Plan when it is a Multi-Jurisdictional Plan
	Risk / Vulnerability
Problem being Mitigated:	Describe the specific problem or area of concern. Each Action Worksheet
	should describe a unique problem. A well written problem statement is key to
	a successful mitigation action.
	Potential Actions/Projects (not being Implemented at this time)
Actions/Projects Considered	For each problem, consider different types of mitigation actions/projects.
with Summary Evaluation of Each:	Document this consideration by naming the potential actions/projects considered and by explaining why each is not being implemented. The
Each:	documentation of alternatives encourages comprehensive thinking and
	facilitates the preparation of grant applications.
	Action or Project Intended for Implementation
Action/Project Number:	Give each action a unique number and name (title) for easy reference. It is
Name of Action or Project:	recommended that the municipality's initials be part of the action number to
rame of section of 1 rojects	avoid confusion in multi-jurisdiction plans. For example, the City of Long
	Beach might use the number LB-1 for their first action.
	Describe the work to be done. It should be a unique statement of work, not a
Action or Project Description:	generic statement. Sources, such as FEMA's Mitigation Ideas publication,
	include generic actions to trigger the brainstorming of specific actions that
	could be taken. These generic actions must be refined into specific actions
	that address the specific problem at hand.
Summary of Evaluation	Summarize the evaluation of the action/project. Part of this evaluation must
Benefits (losses avoided)	be a consideration of the benefits (losses avoided) and costs for the project.
Estimated Cost	Describe any other factors and how they affected the decision. Factors such
Other Factors Considered	as technical, legal, environmental, social, and political considerations. The
	capacity of the jurisdiction to undertake this work should also be considered.
	Plan for Implementation
Responsible Organization:	This should be the name of a department or agency, not the name of the
	municipality.
Action/Project Priority:	Actions may be numbered in priority order or could be assigned a general priority, such as high, medium, or low.
Timeline for Completion:	State the target time when the action/project will be completed. Other
Timeline for Completion.	timeline information might also be provided, such as the estimated start date.
	All actions must have a point in time when they will be completed in order to
	be considered a mitigation action as defined by FEMA. Actions which are
	"ongoing" (e.g. maintenance) reduce risk for the short-term and may be very
	worthy activities, but they do not meet the definition of mitigation action for
	this plan. Mitigation action for this plan must reduce risk for the long-term.
Potential Fund Sources:	Multiple sources of potential funding should be listed when appropriate.
Local Planning Mechanisms to	Other plans (e.g. land use plans) and processes (e.g. capital budgeting
be Used in Implementation, if	process) are often means through which mitigation actions can be more
any:	easily implemented. Consider the use of local planning mechanisms and
	identify any existing planning mechanisms that will be used to implement this
	action/project.
	Progress Report
Date of Status Report:	In the future this space may be used to report on progress. Leave this space
Report of Progress:	blank until it is time to complete a status report.
Evaluation of Effectiveness:	

A Guide for Identifying Integration Actions

Introduction:

Hazard Mitigation Plans analyze risk, identify vulnerabilities (problems), and propose mitigation actions (solutions) to reduce the risk. The mitigation planning process also points to the value of incorporating mitigation into daily decision-making, thus yielding ongoing benefits well beyond the life of the plan.

The incorporation of mitigation into the fabric of governing is enhanced when integration actions' formally incorporate mitigation data, information, and concepts into the other planning mechanisms the community uses to govern. Mitigation plans must identify opportunities for integration – the planning mechanisms where mitigation data, information, etc. may be incorporated; and, the process by which local governments will bring about that integration/incorporation. The recommended way of meeting this requirement is by listing integration actions in the plan. The lists of actions in a multi-jurisdictional plan would be community by community.

The intent of this plan requirement is that each community capitalizes on all available mechanisms at their disposal to accomplish mitigation and reduce risk. Each community is unique and the integration actions they choose will be somewhat unique. The plan should identify specific planning mechanisms (governance documents) by name and indicate with a short statement what mitigation data, information, or concepts will be incorporated. A team from each jurisdiction should be able to come up with a set of virtually cost free integration actions after a fairly brief discussion.

Example

The format for listing integration actions is optional. Examples of *integration actions* in an acceptable format for single jurisdictional and multi-jurisdictional plans follow:

For a single jurisdictional plan:

Integration Actions

Planned Actions to Incorporate Mitigation into Daily Decision-Making

Emergency Response Plan – The estimated frequency of hazard events and their worst case scenarios developed by the Hazard Mitigation Plan will be added to the Emergency Response Plan as an appendix.

Stormwater Management Plan – Planned flood mitigation actions and their intended effect will be reflected in the Stormwater Management Plan.

¹ Summarize the evaluation of potential actions and the action selected for implementation. Always consider the benefits and costs. Other criterion might include: Technical Feasibility, Political Support, Legal Authority, Environmental Impacts, positive and negative Social Impacts, and whether the jurisdiction has a person willing to be the Local Champion for implementation and is this person with the full support of the jurisdiction Administratively Capable of implementing the action selected for

¹ Integration of mitigation can be generally described as the routine consideration and management of hazard risks in your community's existing planning framework – that is, the collection of plans, policies, codes, and programs that guide development in your community, how those are maintained and implemented, and the roles of people, agencies and departments in evaluating and updating them. Source: Integrating Hazard Mitigation Into Local Planning – Case Studies and Tools for Community Officials, FEMA, March 1, 2013.

For a multi-jurisdictional plan:

Table x.x

Integration Actions
acorporate Mitigation into Daily Decision-Making Planned Actions to Incorpo

Jurisdiction	Planned Integration Actions
Town of Alpha	Emergency Response Plan – The estimated frequency of hazard events and their worst case scenarios developed by the Hazard Mitigation Plan will be added to the Emergency Response Plan as an appendix.
	Stormwater Management Plan – Planned flood mitigation actions and their intended effect will be reflected in the Stormwater Management Plan.
Village of Beta	Zoning Ordinance – A policy will be established of reviewing the zoning ordinance each time updated Flood Insurance Rate Maps (FIRMs) are adopted by the Village.
	Comprehensive Plan – The Hazard Mitigation Plan goal for protecting the Village's most vulnerable citizens will be added to the Comprehensive Plan.
	Highway Superintendent Job Description – The Highway Superintendent's job description will be amended to include hazard mitigation, protecting village roads from natural hazards, as an area of responsibility.
	Planning Committee Ordinances – The Village will use the Hazard Mitigation Plan as support for floodplain management actions.
City of Zeta	Grant Applications – Data and maps will be used as supporting documentation in grant applications
	Strategic Plan – Mitigation goals and actions will be incorporated when the Strategic Plan is updated.
	Building & Zoning Code – Prior to land use, zoning changes, or development permitting the City will review the Hazard Mitigation Plan and other hazard analysis to ensure consistent and compatible land use.
Omega County	Economic Development – The County Economic Development Committee will utilize the identification of hazard areas when assisting new business in finding a location.
	Emergency Preparedness Plan – The hazard identification and profiling from the Hazard Mitigation Plan will be incorporated into the County's Emergency Preparedness Plan.
	Fire Plan – The Hazard Mitigation Plan will be used as a resource for the development of a future Fire Plan.
	Three Year Capital Program — The consideration of new capital projects will include the consideration of a potential project's effect on County resistance to hazards. There will be a mitigation criterion added to the other criteria applied when making capital budget decisions.

Great Lakes Coastal Resilience Planning Guide



http://greatlakesresilience.org/



The Great Lakes Coastal Resilience Planning Guide shows how coastal communities are using science based information to address coastal hazards such as flooding, shore erosion, and lake-level fluctuations. This new online resource connects people with the tools and data needed to consider natural hazards and climate change in local planning efforts.

The planning guide features the following resources

- $\underline{\textbf{Local stories}} \textbf{Learn what's happening in Great Lakes communities. Information ranges from}$ news articles to outreach materials.
- <u>Case studies</u> Discover specific solutions and tested strategies communities are applying to land use and zoning concerns, habitat and environmental protection issues, and infrastructure
- Maps, Data, and Tools Access geospatial data, tools, applications, and Web map services
- People and Organizations Connect with others working to address coastal hazard and climate change impacts in the region.
- Events and Funding Identify events and funding sources related to coastal resilience and
- Climate and Environment Learn about the Great Lakes and its coastal hazards and climate.
- Library Uncover relevant publications that include legal and regulatory documents, best practices, ordinances, comprehensive plans, and more

Additional Information Available Online: http://www.fema.gov/library/viewRecord.do?id=7130

Integrating Hazard Mitigation Into Local Planning: Case Studies and Tools for Community Officials



provides practical guidance on how to incorporate risk reduction strategies into existing local plans, policies, codes, and programs that guide community development or redevelopment patterns. It includes recommended steps and tools to assist with local integration efforts, along with ideas for overcoming possible impediments, and presents a series of case studies to demonstrate successful integration in practice. The document also includes several pull-out fact sheets to provide succinct guidance on specific integration topics. This resource is intended for those who are engaged in any type of local planning, but primarily community planners and emergency managers who are involved with hazard mitigation planning and implementation.

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting - Mitigation Actions

NAME AND TITLE	AGENCY/ORGANIZATION	E-MAIL
Dawn Forth	Town of chili	Atote & townorthis.
Michael Slattery	Meder	mslattery & menner con
Paul Robinson	Village of Churchulte	paul @ Churcher! le
Gary Penders	Village of Spareport	ghanders @ vil. Sperc
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753-4710







Thursday, November 19, 2015 | 9:00 a.m. - 11:00 a.m.

SIGN-IN

NAME AND TITLE	AGENCY/ORGANIZATION	E-MAIL	PHONE
Super of Debola Wate of webster	Villak of Webster	JOSUNG HE VIllepost waters. 281-8602	201-8604
GREGENERSON VOF FULL	Vod Homeove Falls	CREG UHFE RONTIER NET 624-3020	624-20
Deven Helfer	McParty	Devado helles court, 9 m	753-728C
Gregory D. Marrick Fire Morshal	Town of Irondequoit	gnerrick@irondeguoit 330 6097	330-6097
Justin Cole Ambist	MCGIS	Jeole@monrecounty.sou 753 7504	753 7504
Kar Carelock Evideniples. Div. Mores	MCOPIT	Klarelock Monnecourty-500 753-87	50V 753-507
John Moore	RIT	stanforsant, edn 475-2154	475-2154
BENNS CLOSTA	Town of Papers	1311-01. CARING UT. OR 203-49:	303-498
Michael & Sayors PHEP, MCDPH	MC Ory + of Public Stalk msayors@ monroe courty.	Msayers@Monroecourty.	753-510

Page 4 of 5







MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting - Mitigation Actions

SIGN-IN

Thursday, November 19, 2015 | 9:00 a.m. - 11:00 a.m.

NAME AND TITLE	AGENCY/ORGANIZATION	E-MAIL	PHONE
Ton Mar Framush	Ton Mari Fre Mashed Town of Now 1, Journal 550 Shay	Torranger 55@ SMG.	4200-704
LYNN DALEY COUTHURY	LYNN THEETER, RUSHESS, FOCH INST OF TECH HORINGSEIT, odly 475-7812	Halimssert. odu	475-7812
Anshar Days the Monoe Co O Em	Monoe Co OEM	Kdaushe Hoveranenby 755-3833	755-3893
CHIRCLIE JOHNSON acc	CHINGUE LEADSON GED VILL HONDONE FALLY	CEO eVIUNTECHTONO ONTHU, OT 9	6749-9483
FRITZ MAX	VILHGE OF FAIRPORT	Anna Famportny. Con 421-3209	585-
	16		

Kimberly Pape SPERIEN BOTZ SC

John Ganthier

ina Carson

Jason Helfer

SHAWS HARD Janie Rome

Grey Seighal





MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Mitigation Actions

SIGN-IN

NAME AND TITLE	AGENCY/ORGANIZATION	E-MAIL PH	PHONE
Dave Kester	RERTA	dkester Omysts.com 654	654
Paul Hoole	FEMA	paul, hoole @ Ferna, dls. 301	
William Platt	Red Cross	William. Hatt ORE derossor	55.00 PO 02.00
Enz Ammerym	Health Deat.	PARMMENTAN @ MONYORCOUNTY, OCK	757-5058
Kelly Cline	Town Magk Rtstord	*Chine @ bannofil History. org	
MICHELLE VICTS	HCDES	un.	585-
TERRY RECH	Two of Whatled	twreeh@tounofwhatlandiony 585899 1553	ESSI 1853
Melnole Nand RIT	KIT	Williamss @ vitedu	475-6135
M. Ka M. SHEWY	Villageofth Hoy	Jawoh. 1 tonny. org 392-9633	372-943
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NAME AND TITLE

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active Sullivain

DE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Mitigation Actions Thursday, November 19, 2015 9:00 a.m. – 11:00 a.m.		SIGN-IN	
AGENCY/ORGANIZATION	E-MAIL	PHONE	
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Village of Sperimport	15-565 21. W. France / 1/19 novilluse	Jrry-625	
11/6	4445918910000000000000000000000000000000000	ph11-622	
Town of Greece	10 this @ greece w, con 723-2376	123-2376	
Town of Riga	townsker Ketownskeigen on 293-3880	, 293-3880	
KFD .	Lots PatjoBolvenigor 309-4644	304-41941	
RFD	removie atherachery 753-3713	V 753-3713	
MCDOH	SSHALLO MUROSECONONIGO X3-5128	3-215-82	
Greece AD	THELFER BOSE GENT CON 581-6319	581-63	0
Town of Pacinton	35-510 per-2-47 325-0173	223-0770	
	,		







MEETING NOTES

Meeting	Monroe County Hazard Mitigation Plan (HMP)	Steering	Committee Meeting				
Date	December 14, 2015	Time	9:30 a.m. – 10:30 a.m.				
Location	Monroe County Office of Emergency Manager	ment, Ro	chester, NY				
	Frederick Rion, Monroe County Office of Eme	Frederick Rion, Monroe County Office of Emergency Management (MCOEM)					
	Kristina Daugherty, MCOEM						
Attendees	Andy Sansone, Monroe County Department of	f Environ	mental Services (MC DES)				
	Robin Finnerty, Monroe County Department of	f Plannin	g (for Tom Goodwin)				
	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)						

The purpose of the Steering Committee meeting was to review progress on the Hazard Mitigation Plan (HMP) update; examine the participation status of the County's municipalities and stakeholders; and discuss evacuation, shelter, and temporary housing issues.

Discussion Points

This section summarizes each discussion point addressed during the Steering Committee meeting.

Mr. Rion discussed the community meeting held in the Village of Churchville on December 10, 2015. Approximately 20-30 people from the Village attended the meeting. The Village is planning to create a project plan for protecting homes on Willowbank Drive along the Black Creek; the homes are being threatened by streambed erosion. The Village is also concerned about silt buildup at the dam. Steering Committee members are aware of no other outreach being conducted in regards to the HMP.

Review Status of Worksheet Completion

Mr. Subbio reviewed the Worksheet Completion Status handout with the group. The handout shows the worksheets completed by each municipality. Mr. Rion was surprised at the fact that several jurisdictions had not submitted their worksheets, because they have been represented at Planning Committee meetings throughout the process.

Review Planning Participation/Non-participating Jurisdictions

Mr. Subbio then reviewed the Participation Status handout with the group. The Towns of Mendon and Ogden have not participated in the planning process at all. The Towns of Rush and Sweden were represented at the Planning Committee Kick-off Meeting in July 2015, but have not participated since. Mr. Rion asked Mr. Subbio to develop a letter that Mr. Rion can send to these four municipalities, listing the ramifications of not participating in the planning process or having a Federal Emergency Management Agency (FEMA)-approved HMP.

Mr. Rion asked Ms. Daugherty to reach out to the municipalities that have not completed their worksheets or attended any planning meetings to solicit their participation.



MEETING NOTES

- The December 2015 Planning Committee meeting will be held from 9:00 a.m. to 11:00 a.m. on December 16, 2015.
- A public meeting to review the mitigation strategy will be conducted in the evening of December 16, 2015.
- The next Steering Committee meeting will be to review the draft HMP, and will be held on January 25, 2016.

With no further questions, Mr. Subbio and Mr. Rion thanked attendees for their time. The meeting concluded at 10:30 a.m.



MEETING NOTES

Evacuation Routes

Mr. Subbio discussed the New York State Division of Homeland Security and Emergency Services' (NYS DHSES) requirement to identify in the HMP the evacuation routes in each jurisdiction, and emergency shelters to house evacuees. The HMP may also simply refer to an existing plan that contains this information. Mr. Rion stated that the County works with the American Red Cross (ARC) as the County's sheltering agent. ARC identifies and certifies facilities for use as emergency shelters.

Monroe County OEM maintains an Evacuation and Shelter Plan that discusses how shelter locations will be identified and operated. Mr. Rion is leading an update of this plan, and will ensure that it incorporates the NYS DHSES

The County's Radiological Plan for events at the Ginna Nuclear Generating Station includes a sheltering component, as well as evacuation routes for the Towns of Penfield and Webster. The County's road network is incorporated into the County's geographic information system (GIS). Evacuation routes will be determined at the time of an incident.

Tetra Tech will incorporate this information into the Capabilities section of the HMP to meet the NYS DHSES

Mr. Subbio next discussed the NYS DHSES requirement to identify areas that can be used for temporary housing of evacuees following a flood event. These areas can include dormitories at local colleges or universities, or large areas where temporary housing can be erected. The Steering Committee requested that identifying these areas and collecting the information required by NYS DHSES be included as a mitigation action in the updated HMP. The County can incorporate this information into the Evacuation and Shelter Plan. Conducting this planning now would take too long to have it finalized and incorporated into the updated HMP.

Schedule

Mr. Subbio reviewed the project schedule for the next 2 months. Tetra Tech plans to have a full draft of the HMP complete by the end of January 2016. The Steering Committee and Planning Committee will both meet to review the draft, and the draft will be posted to the project website for public review.

Mr. Rion asked when the HMP would be available for adoption by the County Legislature. Mr. Subbio estimated that the plan would have received Approvable Pending Adoption status and be ready for adoption at the August 2016 meeting of the Legislature.

Next Steps

The following next steps were identified during the meeting:

- . Mr. Rion and/or Ms. Daugherty will reach out to representatives of the Towns of Mendon, Ogden, Rush, and Sweden to advise them to attend the next Planning Committee meeting and provide their worksheets as soon as possible.
- Each jurisdiction will identify mitigation actions for inclusion in the plan
- · Tetra Tech will work with the jurisdictions to complete their annexes



AGENDA

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Steering Committee Meeting Agenda

Monday, December 14, 2015 | 9:30 - 10:30 a.m.

- 1. Welcome 2. Outreach 3. Review Status of Worksheet Completion 4. Review Planning Participation 5. Non-participating Jurisdictions 6. Evacuation Routes 7. Temporary Housing 8. Schedule 9. Next Steps Identify mitigation actions with each jurisdiction Finalize jurisdictional annexes Finalize other sections of the HMP Next Planning Committee Meeting
 - Mitigation Strategy Public Meeting December 16, 2015 Next Steering Committee Meeting
 - Review Mitigation Strategy December 16, 2015
 - Review Draft January 25, 2016

10. Questions and Concerns

Monroe County Hazard Mitigation Plan Update - Worksheet Completion Status

The following table shows the worksheets that have been submitted by each jurisdiction, as of December 4, 2015.

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	Worksheet 1 · Events and Losses	Worksheet 2 · Cap. Assessment	Worksheet 3 - NFIP FPA	Worksheet 4 - Past Action Progress	Worksheet 5 · Plan Integration	Worksheet 6 - New Development	Worksheet 7 - Hazards of Concern	Other data or information provided
Monroe County	X	Х		Х			Х	
Town of Brighton	Х	Х	Х	Х	Х	Х	Х	CEMP and Stormwater Plan
Village of Brockport	X	Х	Х	Х	Х	Х	Х	
Town of Chili	Х	Х	Х	Х	Х	Х	Х	Additional documentation for Worksheets #1 and #7
Village of Churchville	X	Х	Х	Х	Х	Х	X	
Town of Clarkson	X	Х	Х	Х	Х	Х	Х	
Town/Village of East Rochester								
Village of Fairport	X	Х	Х	X	Х	Х	X	
Town of Gates	X	X	Х	Х	Х	Х	X	
Town of Greece	X	X	Х	X	Х	Х	Х	
Town of Hamlin	Х	Х	Х		Х	Х	Х	
Town of Henrietta	X	Х	Х	Х	Х	Х	Х	
Village of Hilton	Х	Х	Х		Х	Х	Х	
Village of Honeoye Falls	Х	Х	Х	Х	Х	Х	Х	
Town of Irondequoit								
Town of Mendon								
Town of Ogden								
Town of Parma				Х	Х	Х		
Town of Penfield	Х	Х	Х	Х	Х	Х	Х	
Town of Perinton	Х	Х	Х	Х	Х	Х	Х	
Town of Pittsford	Х	Х	Х	Х	Х	Х	Х	
Village of Pittsford	Х	Х	Х	Х	Х	Х	Х	
Town of Riga	Х	Х	Х	Х	Х	Х	Х	Comprehensive Plan
City of Rochester	Х	Х	х	х	Х	Х	х	Heat Sweep Plan, Cool Sweep Plan

Monroe County HMP Update – Worksheet Completion Status As of 12/04/15

1

Monroe County HMP Update – Participation Status As of 12/04/15

rown of Ogden

Village of Hilton Village of Honeoye Falls Town of Irondequoit

Town of Henrietta

Town of Hamlin Town of Greece

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Village of Churchville

Town of Chili

Town of Clarkson

Town of Brighton Village of Brockport

Monroe County

Town/Village of East Rochester Village of Fairport

Town of Gates

Monroe	County	HMP	Update -	Worksheet	Completion Statu	ıs
As of 12	/04/15					

Worksheet 3 - NFIP FPA Worksheet 4 - Past Action Progress Worksheet 5 - Plan Integration Worksheet 6 - New Development Worksheet 7 - Hazar of Concern

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Past Action Worksheets

2

Worksheet 2 · Cap. Assessment

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Town of Rush Village of Scottsville Village of Spencerport

Town of Sweden Town of Webster Village of Webster

Town of Wheatland

Planning					Attend	Attended Meetings			
	Jurisdiction	Submitted Worksheets	Planning Committee Kickoff 07/29/15	Municipal Meetings 08/18/15- 08/20/15	Plenning Committee Hazard Profiles 08,26/15	Planning Committee Vulnerability Assessment 09/23/15	Planning Committee Vulnerability Assessment, G&O 10/20/15*	Mitigation Solutions Workshops 11/19/15	Number of Participants
	of Parma	×					×	×	2
	of Penfield	×	×	×	×				4
Ford	of Perinton	×	×	×	×	×	×	×	4
Ford	of Pittsford	×	×	×	×		×	×	2
ter X	s of Pittsford	×	×	×	×		×	×	1
ж ж ж ж ж ж ж ж ж ж ж ж ж ж ж ж ж ж ж	of Riga	×		×	×	×	×	×	7
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× × × × ×	of Webster		×	×			×		2
×	of Webster	×	×		×	×	×	×	2
	of Wheatland	×				×	×	×	1

Monroe County Hazard Mitigation Plan Update - Participation Status

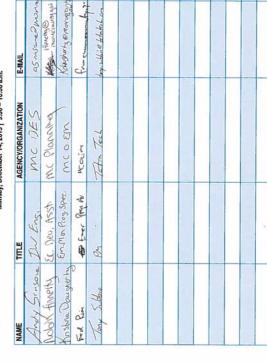
The following table shows the jurisdictions that have participated in the project, as of December 4, 2015.

				Attend	Attended Meetings		
Jurisdiction	Submitted Worksheets	Planning Committee Kickoff 07/29/15	Municipal Meetings 08/18/15- 08/20/15	Plenning Committee Hazard Profiles 08/26/15	Planning Committee Vulnerability Assessment 09/23/15	Plaming Committee Vulnerability Assessment, G&O 10/20/15*	Mitigati Solutio Worksh
Town of Parma	×					×	×
Town of Penfield	×	×	×	×			
Town of Perinton	×	×	×	×	×	×	×
Town of Pittsford	×	×	×	×		×	×
Village of Pittsford	×	×	×	×		×	×
Town of Riga	×		×	×	×	×	×
City of Rochester	×		×	×	×	×	×
Town of Rush		×					
Village of Scottsville					×	×	
Village of Spencerport	×		×	×	×	×	×
Town of Sweden							
Town of Webster		×	×			×	
Village of Webster	×	×		×	×	×	×
Town of Wheatland	×				×	×	×

Monroe County HMP Update – Participation Status As of 12/04/15

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Steering Committee Meeting

9:30 - 10:30 Monday, December 14, 2015 |



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The following table shows the stakeholder agencies that have participated in the project, as of December 4, 2015.

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American Red Cross

Brighton Fire

MEETING NOTES

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Monroe County Community College, Agricultural and Life Sciences Institute

Greater Rochester FEMA Region II

Rochester Institute of Technology

National Grid

Rochester-Genesee

Time Warner Cable

Meeting	Monroe County Hazard Mitigation Plan (HMP) Annex Workshop #1								
Date	December 15, 2015 Time 10:00 a.m. – 11:00 a.m.								
Location	Monroe County Office of Emergency Management, Rochester, NY								
	Justin Cole, Monroe County Geographic Information Systems								
	Chad Roscoe, Town of Brighton								
	Nancy Steedman, Village of Churchville								
	Fritz May, Village of Fairport								
	Chuck Marshall, Town of Henrietta								
	Mike Lissow, Village of Hilton								
	Mike McHenry, Village of Hilton								
	Greg Siegfried, Town of Perinton								
Attendees	Eric Williams, Town of Perinton								
Attenuess	Kelly Cline, Town of Pittsford and Village of Pittsford								
	Debbie Campanella, Town of Riga								
	Gary Penders, Village of Spencerport								
	Jackie Sullivan, Village of Spencerport								
	Will Barham, Village of Webster								
	Jake Swingly, Village of Webster								
	Jay Coates, Town of Wheatland								
	Terry Rech, Town of Wheatland								
	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)								

The purpose of the Annex Workshop was to review the layout of the jurisdictional annexes and answer Planning Committee members' questions regarding completing the annexes. This was the first of two identical workshops.

Discussion Points

rizes each discussion point addressed during the workshop.

Jurisdictional Annex Layout

Mr. Subbio reviewed the different sections of the jurisdictional annexes, as follows

- The HMP Point of Contact section should list the primary and alternate individuals responsible for development of the annex that will serve on the Planning Committee for the next 5 years
- . The Municipal Profile section describes the jurisdiction based on existing plans and the information provided on the New Development Worksheet.



MEETING NOTES

- . The Natural Hazard Event History summarizes hazard impacts listed in the hazard profiles, specific to the jurisdiction. It is based on the Events and Losses Worksheet and research conducted by Tetra Tech. Planning Committee members should review the information captured for accuracy.
- The Hazard Vulnerability and Ranking table will be completed by Tetra Tech. It shows the expected losses and risk priority of each of the hazards of concern.
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 The National Flood insurance Program (NFIP) Summary table shows NFIP statistics for the jurisdiction.

 The Federal Emergency Management Agency (FEMA) provided the numbers of repetitive loss (RL) and severe repetitive loss (SRL) properties. Activities that mitigate the flood hazard for these properties may be eligible for an increased federal share under FEMA's Flood Mitigation Assistance (FMA) program. A property must have a flood insurance policy in effect to be classified as an RL or SRL property.

 The critical facilities within the 1% and 0.2% annual chance floodplains are shown in the Critical Facilities
- table. Mr. Swingly asked if a jurisdiction's critical facilities that are located in another jurisdiction will be on the list. Mr. Subbio replied that they would.
- The Capability Assessment section is populated with information provided on the Municipal Capability Assessment Worksheet. Planning Committee members should ensure that all applicable items are filled in. Tetra Tech staff will work with each jurisdiction to ensure that they are.
- The Past Mitigation Initiative Status table is populated with information from the Action Review Worksheet. Planning Committee members should review the table to ensure it is accurate.
- Mitigation actions that are being carried over into the updated HMP will appear in the Proposed Hazard Mitigation Initiatives table. Planning Committee members should also list new actions in this table. Tetra Tech will work with Planning Committee members to ensure the table is complete, and that Action Worksheets are completed for any actions that require them.
- Each annex will include two maps. The first map shows the 1% and 0.2% annual chance floodplains and the jurisdiction's critical facilities. The second map shows the landslide and wildfire hazard areas with the jurisdiction's critical facilities.

Action Worksheet

Mr. Subbio provided a copy of Tetra Tech's version of the Action Worksheet, which Paul Hoole from FEMA Region II discussed at the November 2015 Planning Committee meeting. Mr. Subbio reiterated that Tetra Tech staff will work with each jurisdiction to ensure that the Action Worksheets are completed. The Action Worksheets will be included at the end of each jurisdictional annex

Next Steps

The following next steps were identified during the meeting:

- Each jurisdiction will identify mitigation actions for inclusion in the plan.
- Tetra Tech will work with the jurisdictions to complete their annexes
- The December 2015 Planning Committee meeting will be held from 9:00 a.m. to 11:00 a.m. on December 16. 2015.
- . A public meeting to review the mitigation strategy will be conducted on the evening of December 16, 2015.

With no further questions, Mr. Subbio thanked attendees for their time. The meeting concluded at 11:00 a.m.



AGENDA

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Annex Workshop - Morning Agenda

Tuesday, December 15, 2015 | 10:00 a.m. - 12:00 p.m.

1. Welcome

Jurisdictional Annex Layout a. HMP Point of Contact b. Municipal Profile

- c. Natural Hazard Event History d. Hazard Vulnerability and Ranking
- e. Capability Assessment
 f. Integration of Hazard Mitigation into Existing and Future Planning Mechanisms
- g. Mitigation Strategy and Prioritization
 h. Future Needs to Better Understand Risk/Vulnerability
 i. Hazard Area Extent and Location

3. Action Worksheet

- Next Steps
 a. Identify mitigation actions with each jurisdiction

 - Identify mitigation actions that call
 Finalize jurisdictional annexes
 Next Planning Committee Meeting
 Review Mitigation Strategy
 - - ii. December 16, 2015
 - d. Mitigation Strategy Public Meeting December 16, 2015

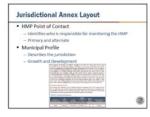
5. Questions









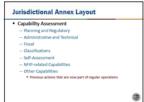








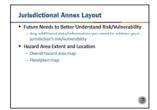














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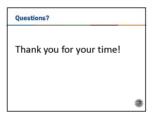


Next Steps

- Identify mitigation actions
 Finalize jurisdictional annexes
 Next Planning Committee Meeting
- gation Strategy Review ember 16, 2015, 9:00 11:00 a.m.

Public Meeting – Mitigation Strategy Review
 December 16, 2015, 6:00 – 7:30 p.m.

(8)







9.1 MUNICIPALITY NAME

This section presents the jurisdictional annex for the MUNICIPALITY NAME.

9.1.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan's primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
NAME, TITLE	NAME, TITLE
ADDRESS	ADDRESS
PHONE	PHONE
EMAIL	EMAIL

9.1.2 Municipal Profile

PUT TOGETHER A BRIEF DESCRIPTION OF THE MUNICIPALITY DICLUDE THE SIZE OF THE MUNICIPALITY (SQUARE MILES), THE 2010 CENSUS, UNINCORPORATED AREAS, AND BODIES OF WATER. ALSO INCLUDE ITS LOCATION WITHIN THE COUNTY AND WHAT MUNICIPALITIES BORDER IT.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2010 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the map in Section 9.8.8 of this annex which illustrates the hazard areas along with the location of potential new development.

The MUNICIPALITY NAME did not note any recent residential/commercial development since 2010 or any major residential or commercial development, or major infrastructure development planned for the next five years in the municipality.

Table 9.2-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zone(s)	Description/Status of Development
	R	Recent Develo	pment from 2010 to p	resent	
	Known or	Anticipated D	evelopment in the Ne	xt Five (5) Years	

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Section 9.X: MUNICIPALITY NAME

9.1.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant's vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the MI PALITY NAME. For additional vulnerability information relevant to this jurisdiction, refer to

Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the MUNICIPALITY NAME.

Table 9.2-3. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard * <	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b

- Building damage ratio estimates based on FEMA 386-2 (August 2001)
 The valuation of general building stock and loss estimates was based on custom inventory for the municipality.
 High * Total hazard priority risk runking score of 31 and above
 Medium * Total hazard priority risk runking of 20-30+
 Low * Total hazard risk runking below 20
 Low = Total hazard risk runking below 20
 Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the values of the severe storm and severe winter storm hazards are structural values only and do not include the values.
- Loss estimates for the flood and earthquake hazards represent both stru
 The HAZUS-MH earthquake model results are reported by Census Tract.



Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zone(s)	Description/Status of Development

Only location-specific haz

9.1.3 Natural Hazard Event History Specific to the Municipality

Monroe County has a history of natural and non-natural hazard events as detailed in Volume I. Section 5.0 of Monroe County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. For the purpose of this plan update, to the extent possible, all events that have occurred in the County were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.2-2 Hazard Event History

Table 9.2-2. Hazare	a Event mistory			
Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses

Tt

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Section 9.X: MUNICIPALITY NAME

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the MUNICIPALITY NAME.

Table 9.2-4. NFIP Summary

	Municip	Polic lity (1			# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100- year Boundary (3)	# Polices in 500- Boundary (3)	# Policies Outside the 500- year Flood Hazard (3)
--	---------	------------------	--	--	--------------------------------	--	--	---	---

Critical Facilities

The table below presents HAZUS-MH estimates of the damage and loss of use to critical facilities in the community as a result of a 1- and 0.2-percent annual chance flood events.

Table 9.2-5. Potential Flood Losses to Critical Facilities

			Potential Loss from Exposure 1% Flood Event			Potential Loss from 0.2% Flood Event				
Name	Туре	Exposure	1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	Days to 100- Percent ⁽²⁾	Percent Structure Damage	Percent Content Damage	Days to 100- Percent ⁽²⁾
	_									

HAZUS-MH 2.1

HAZUS-MH 2.1 provides a general indication of the maximum restoration time for 100% operations. Clearly, a great deal of effort is needed to quickly restore essential facilities to full functionality; therefore this will be an indication of the maximum downtime (HAZUS-MH 2.1 User Manual).

En some case, a facility may be located in the DFIRM flood hazard boundary; however HAZUS did not calculate potential loss. This may be because the depth of flooding does not amount to any damages to the structure according to the depth damage function used in HAZUS for that facility type. Further, HAZUS-MH may estimate potential damage to a facility that is outside the DFIRM because the model generated a depth grid beyond the DFIRM boundaries.





Other Vulnerabilities Identified

The municipality has identified the following vulnerabilities within their community:

IDENTIFIED IN THE FIS FOR FLOODING AREAS IN THE MUNICIPALITY





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9.X-7



Section 9.X: MUNICIPALITY NAME

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Municipal Separate Storm Sewer System (MS4)				
Natural Hazard Ordinance				
Post-Disaster Recovery Ordinance				
Real Estate Disclosure Requirement				
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]				

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the MUNICIPALITY NAME.

Table 9.2-7. Administrative and Technical Capabilities

	Is this in	
Resources	place? (Yes or No)	Donaton and Association
Administrative Capability	(Tes or No)	Department/ Agency/Position
Planning Board		
Mitigation Planning Committee		
Environmental Board/Commission		
Open Space Board/Committee		
Economic Development Commission/Committee		
Maintenance Programs to Reduce Risk		
Mutual Aid Agreements		
Technical/Staffing Capability		
Planner(s) or Engineer(s) with knowledge of land development and land management practices		
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure		
Planners or engineers with an understanding of natural hazards		
NFIP Floodplain Administrator		
Surveyor(s)		
Personnel skilled or trained in GIS and/or HAZUS-MH applications		
Scientist familiar with natural hazards		
Emergency Manager		
Grant Writer(s)		
Staff with expertise or training in benefit/cost analysis		
Professionals trained in conducting damage assessments		



Section 9.X: MUNICIPALITY NAME

9.1.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability Community classification
- National Flood Insurance Program
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms

Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the MUNICIPALITY NAME.

Table 9.2-6. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan				
Capital Improvements Plan				
Floodplain Management / Basin Plan				
Stormwater Management Plan				
Open Space Plan				
Stream Corridor Management Plan				
Watershed Management or Protection Plan				
Economic Development Plan			i i	
Comprehensive Emergency Management Plan				
Emergency Response Plan				
Post-Disaster Recovery Plan			ĺ	
Transportation Plan			i i	
Strategic Recovery Planning Report				
Other Plans:			i i	
Regulatory Capability				
Building Code				
Zoning Ordinance				
Subdivision Ordinance				
NFIP Flood Damage Prevention Ordinance				
NFIP: Cumulative Substantial Damages				
NFIP: Freeboard				
Growth Management Ordinances				
Site Plan Review Requirements				
Stormwater Management Ordinance				



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Section 9.X: MUNICIPALITY NAME

Fiscal Capability

The table below summarizes financial resources available to the MUNICIPALITY NAME.

Table 9.2-8. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	
Capital Improvements Project Funding	
Authority to Levy Taxes for specific purposes	
User fees for water, sewer, gas or electric service	
Impact Fees for homebuyers or developers of new development/homes	
Stormwater Utility Fee	
Incur debt through general obligation bonds	
Incur debt through special tax bonds	
Incur debt through private activity bonds	
Withhold public expenditures in hazard-prone areas	
Other Federal or State Funding Programs	
Open Space Acquisition Funding Programs	
Other	

Community Classifications

The table below summarizes classifications for community program available to the MUNICIPALITY NAME.

Table 9.2-9. Community Classifications

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)			
Building Code Effectiveness Grading Schedule (BCEGS)			
Public Protection (ISO Fire Protection Classes 1 to 10)			
Storm Ready			
Firewise			
Disaster/Safety Programs in/for Schools			
Organizations with Mitigation Focus (advocacy group, non-government)			
Public Education Program/Outreach (through website, social media)			
Public-Private Partnerships			

N/A = Not applicable. NP = Not participating. - = Unavailable. TBD = To be determined.

The classifications listed above relate to the community's ability to provide effective services to lessen its rule classifications inseed adove cracie to the commandy's adoubt to provide returner services or bessent its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community's capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class



applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

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

Self-Assessment of Capability

The table below provides an approximate measure of the MUNICIPALITY NAME's capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.1-1. Self-Assessment Capability for the Municipality

	Degree of H	azard Mitigation Cap	ability
Area	Limited (If limited, what are your obstacles?)*	Moderate	High
Planning and Regulatory Capability			
Administrative and Technical Capability			
Fiscal Capability			
Community Political Capability			
Community Resiliency Capability			
Capability to Integrate Mitigation into Municipal Processes and Activities.			

NAME, TITLE

ADD INFO FROM FPA HERE

ADD INFO FROM FPA HERE

ADD INFO FROM FPA HERE



Tt

Section 9.X: MUNICIPALITY NAME

9.1.6 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritization

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Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2010 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under 'Capability Assessment' presented previously in this



ADD INFO FROM FPA HERE

Community Rating System

The MUNICIPALITY NAME does/does not participate in the Community Rating System (CRS) program.

Other Capabilities Identified

Previous actions that are now on-going programs and capabilities are described below. Refer to Table 9.X-11 presented later in this annex.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-today local government operations. As part of this planning effort, each community was surveyed to obtain a better understanding of their community's progress in plan integration. A summary is provided below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

Planning

INSERT INFO IF APPLICABLE

Regulatory and Enforcement (Ordina

INSERT INFO IF APPLICABLE

Operational and Administration

INSERT INFO IF APPLICABLE

Funding

INSERT INFO IF APPLICABLE

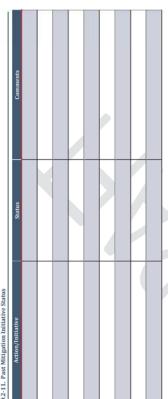
Education and Outreach

INSERT INFO IF APPLICABLE

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item.

Section 9.X: MUNIC

Fable 9.1-2. Proposed Hazard Mitigation Initiatives

Croffedan 2813					
Mitigation			3	17	
Priority	A CONTRACTOR OF THE PARTY OF TH		100	0	
Timeline					
Sources of Funding					
Estimated Estimated Benefits Cost					
Lead and Support Agencies					
Goals and Objectives Met					
Hazard(s) Mitigated					
Applies to New and/or Existing H Structures*					
Mitigation Initiative					
evitsitinl					

P

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P





High

and Regulations (LPR) – These actions nd Infrastructure Project (SIP)- These apply to public or private structures as

Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The MUNICIPALITY NAME has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2010 Plan:

Proposed Hazard Mitigation Initiatives for the Plan Update

The MUNICIPALITY NAME participated in a mitigation action workshop in XXXX and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 'Selecting Appropriate Mitigation Measures for Floodprone Structures' (March 2007) and FEMA 'Mitigation Ideas — A Resource for Reducing Risk to Natural Hazards' (January 2013). In XXXXX the MUNICIPALITY NAME participated in a second workshop and was provided the results to the risk assessment to further assist with the identification of mitigation activities. mitigation actions.

Table 9.2-11 summarizes the comprehensive-range of specific mitigation initiatives the MUNICIPALITY
NAME would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be
previous actions carried forward for this plan update. These initiatives are dependent upon available funding
(grants and local match availability) and may be modified or omitted at any time based on the occurrence of
new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and
the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of
activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as 'High', 'Medium', or 'Low.' The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.8-12 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.

Tt

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9.X-14



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able 9.8-12. Summary of Prioritization of Actions

Section 9.X: MUNICIPALITY NAME

Figure 9.1-1. MUNICIPALITY NAME Hazard Area Extent and Location Map 1

Figure 9.1-2. MUNICIPALITY NAME Hazard Area Extent and Location Map 2

Figure 9.1-3. MUNICIPALITY NAME Hazard Area Extent and Location Map 3

Figure 9.1-4. MUNICIPALITY NAME Hazard Area Extent and Location Map 4



Section 9.X: MUNICIPALITY NAME

9.1.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.1.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the MUNICIPALITY NAME that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the MUNICIPALITY NAME has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.1.9 Additional Comments

None at this time.



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9.X-18



Section 9.X: MUNICIPALITY NAME

ACTION WORKSHEETS WILL GO HERE



9.X-19

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

Please review the following suggested initiatives for inclusion into your mitigation strategy. At a minimum, we highly recommend that you include:

- An initiative identifying how your community will support efforts to mitigate vulnerable private property via elevation and/or acquisition.
- At least one public outreach/education initiative that outlines <u>specific ways</u> that you intend to expand or enhance your current outreach efforts.
- At least one initiative that addresses continued <u>and enhanced</u> participation in the NFIP, with <u>specific details</u> of those activities that will enhance your local NFIP program.
- An initiative identifying how the findings and recommendations of this Hazard Mitigation Plan can be applied to other related planning and regulatory programs within your municipality.

High

Low-Medium

High

Flood

New and Existing

8

High

Short

Low

Including natural hazard risk and risk reduction information through social media channels and e-mail bast systems.

Posting of figers and other readily available NFIP informational materials at TownVillage/City half or distributing at regular civic meetings.

Preparing, distributing, and analyzing public surveys.

Preparing, distributing, and analyzing public surveys.

Preparing, distributing, and analyzing public surveys.

Enhancing public outreach and mapping can be posted.

Enhancing public outreach are readeries in NFIP floodplain areas to inform them of annual grant opportunities, which may include distributing perificition by hundrods in the annual newsetter.

egulating all new and community. Further meet

adoption and enfo floodplain identific

NFIP including a

tanding in the

compliance with and good

All Hazards

Š

See above.

If you choose to incorporate an initiative_please expand/customize it for your municipality_your way of operating, your capabilities, etc.

P. S

Estimated Cost

Lead

Objectives Met

Applies to New and/or Existing Structures*

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Prio rity
Migation education for natural disasters (natural hazard awareness and personal scale risk reduction capabilities (see Section 8.1), specifically: Migation education for natural disasters (natural hazard awareness and personal scale risk reduction/mitigation public education and outseach program) Local floodpain management and disaster recovery capabilities (enhanced floodpain management, and post-disaster assessment and encovery capabilities) Jurisdictional knowledge of mitigation needs of property owners (improwed undentanding of damage and mitigation interest/activity of private property owners) Algoment of mitigation initiatives through all levels of government (effort to build state and federal-level recognition and support of the County and local hazard mitigation planning strangles identified in this plan).	ed initiatives inte atural disasters (nent and disaste of miggation ree Riaïves through	ended to build loc (natural hazard a r recovery capab ds of property on all levels of gove this plan).	al and regional wareness and p ilities (enhance mers (improvec	mitigation and ris personal scale ris of floodslain man i understanding c	k-reduction capat k reduction/mitga agement, and pos f damage and mit federal-level recog	ilities (see Se ion public edi disaster assigation interes prition and su	ction 9.1), spe	cifically: treach program) covery capabilities rate property owner unty and local haz	s) and
See above	New and Existing	All Hazards	All Objectives	County, as supported by relevant local department leads,	High (compre- hensive improvements, mitigation and risk-reduction capabilities)	Low- Medium (locally)	Local (staff resources)	Short	E E
Segonithe process to promote or dealers the segonithe process to promote or dealers and segonithe process to manage according statement segulations and segonities and segulation segulations in cases where appeals are directly leaf to compliance with the intent of facilitations (e.g. overall and process where appeals are directly leaf to compliance with the intent of facilitations (e.g. overall and process where appeals are directly leaf to compliance with the intent of faciolisms to guidant and walkways). Problett ill in the faciolism and adopt a currulative substantial dismagnification ements or dismagnification and admission or dismagnification or dismagnification and admission admission and admission and admission and admission admission and admission and admission admission admission and admission admission and admission admission admission admission and admission admission admission and admission admiss	New and Existing	Flood		Town Village NEIP FPA and Town Village Board, Village Board, of NYSDEC for model ordinance	Medium	Low	Municipal Budget	Short	HgH

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

# evitatiful	Support the severe reg	Specificall	Assessar	repetitive willing par	See above.
Mitigation Initiative	Support the mitigation of vuherable structures via retroff (e.g. elevation, flood-proofing) or acquisition/relocation to protect them from future clamager, repetitive loss and severe regetive loss properties should be a priority when epiticable. Phase 2. Vorthiff appropriate candidates and detrime most onde-effective mitigation colori (in progress). Phase 2. Vort with the proporties candidates and detrime most onde-effective mitigation colori. (in progress). Phase 2. Vort with the proporties progress and progress and progress and progress and progress of the progress of the progress of the properties of the progress of the prog	Specifically identified are properties in the following areas:	Alternative wording: Assass and nivinitive fissels non-attrictural food hazard mitication alternatives for at-risk oronaries within the flooridain (includion those that have been identified as	repetitive loss) such as acquisitionhelocation, or eleration. The parameters for leashility for the initiative would include the following itending, benefits versus costs, and willing percent as funding becomes available. Specifically identified are properties in the following areas: • ### • ### • ### • ### • ### • ### • ###	4
Applies to New and/or Existing Structures*	e structures via ould be a priori indidates and d	s in the followin	structural flood	relocation, or e ers. Implement	Existing
Hazard(s) Mitigated	retrofit (e.g. eleva ity, when applicab etermine most co lement selected a	g areas:	hazard militation	leration. The par t as funding becor	Flood, Severe Storm, Widfire, Winter Storm
Objectives Met	ation, flood-proxile.		alternatives for	ameters for fea	
Lead	ofing) or acquisitive gation option (in payana)		at-risk properties	sibility for this ini Specifically ident	Town/Village/ City Engineering (via NFIP FPA) with NYS DHSES,
Estimated Benefits	on/relocation to pr progress).		within the flood	iative would inclu	High
Estimated Cost	otect them fro		lain (including	de the followings in the following	Hgh
Sources of Funding	m future dama vailability.		those that hav	g: funding, ber ng areas:	FEMA Mitigation Grant Programs and local budget (or property
Timeline	ge; repetitive loss an		e been identified as	nefits versus costs, a	Ongoing (outreach and specific project identification); Long-term DOF (specific project application and
至長	P			pue	įį

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

	Develo	•	See at
# evitatini			
Prio rity	Medi En		High
Timeline	Short		Ongoing
Estimated Sources of Cost Funding	Local Budget Short		Local Budget Ongoing
Estimated Cost	Medium		Low
Estimated Benefits	Medium – High (reduced risk of utility outages; life safety)		Medium – High (reduced utility outages)
Lsad Agency	Engineering and DPW, working with confractors and local utilities	Froninearing	and DPW, working with local utilities and developers
Objectives Met			
Hazard(s) Mitigated	Severe Storm; Severe Winter Storm		Severe Storm; Severe Winter Storm
Applies to New and/or Existing Structures*	Edisting		New and Edisting
Mitigation Initiative	Enhance or expand tree maintenance program (under contract with ####) and coordinate with utility companies.	Work with utility companies and developers to bury utility lines	Consider requiring underground utilities for any new development. Work with Planning Board so that burying utilities is promoted in development plans.
# evitatini			

Sources	e need to r	reported to	Municipal Budget	Municipal Budget
Estimated Sources Cost Fundin	y owners of th	ises, etc.) as	Low- Medium	Low
Estimated Benefits	s:) to inform property ng substantial carr	age, economiclos	Medium – High (life Safety; Increased eligibility for mitigation grant funding)	Medium - High
Lead Agency	ollowing element Initiatives above ssments, includii	ice, property dam	Engineering (Town/Village /City NFIP FPA); Town/Village Supervisor's Office	Town/Village/ City NFIP FPA, as fully supported by local government
Objectives Met	including the I and Awareness at damage ass	es (loss of serv		
Hazard(s) Mitigated	ssment program. Jublic Education a airs, if necessary.	database) of losse cess).	Flood; Severe Storm; Severe Winter Storm	Flood
Applies to New and/or Existing Structures*	nt damage asse education (see F hen making rep al resources to o	system and/or o	Existing	N/A
Mitigation Initiative	Develop and implement a post-event damage assessment program, including the following elements: Conduct public outreachleducation (see Public Education and Awareness Initiatives above) to inform property owners of the need to redain required parmits when making repairs. If necessary. Develop and organize local resources to conduct post-event damage assessments, including substantial camage determinations as w	 Develop an invertory (file system and/or database) of losses (loss of service, property damage, economic losses, etc.) as reported to Town/Village/City (e.g. building permit process). 	See above.	Support participation in the NFIP Community Ratio System (CRS) program by attending CRS workshop(s) if offered within the country. Join the CRS program if adequate resources to program if adequate resources to he deficient
# eviteitinl	_			
Prio rity	Medi		High	
Timeline			Ongoing	
Estimated Sources of Cost Funding	Local Budget Short		Local Budget Ongoing	
Estimated Cost	Medium	Low 1		
	_	- High utility		I
Estimated Benefits	Medium – High (reduced risk of utility outages; life safety)		Medium – Hig (reduced utilit outages)	
s Lead Estimated Agency Benefits	Engineering and DPW, Medium – High working with (reduced risk of contractors utility outages; and local life safety)	Frontegrina		

High

High

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

Timeline	Short (DOF)	ť	Short (DOF)	
es of ling	=	Short	-	
Sources of Funding	Municipal Budget	Local Budget	Local Budget; Emergency Manageme nt grants as available	
Estimated Cost	Low	Low	Medium - High	
Estimated Benefits	Medium	Medium (improved understanding of flood risk areas)	High (reduced interruption of critical facilities and services; life safety)	
Lead Agency	City NFIP FPA	Engineering, Planning Board	Engineering and DPW	
Objectives Met				
Hazard(s) Mitigated	Flood	Flood, Wildfire	Severe Storm; Severe Winter Storm	Severe Storm; Severe Winter Storm
Applies to New and/or Existing Structures*	NA	New and Existing	Existing	Existing
Mitigation Initiative	Delegione w RIPP Fiscoplain Administrator (FA), and other fiscon difficient who vauld breneft, become a Certified Floodpian Menager (CFM) through the Association of State Produptin Menager (CFM) through the Menager (CFM) and deve- menager (CFM) and deve- menager (CFM) and deve- selected through the Cost Annaysis (CFM) and Substantial Demage Estimation (SDE)	Develop and maintain mapping of all matural hazard risk areas in the Town/Village/City, FEIM4-delineated or otherwise, the support land use decision making (e.g. Planning Board, site plan riskew process.).	Install back-up power at the following critical facilities in the Town/Allage/City: ### ### ###	Work with County and power companies to identify roads within the Town/Nillage/City considered 'critical' would be the first priority for cleaning after an event involving downed cower lines.
# evitetini				

High

High

High



MONROE COUNTY 2015 HAZARD MITIGATION PLAN Mitigation Action Worksheet



Please complete !	the following	two tables per	NEW	action/project	with a	as much	detail	as possible,	using	th
guidance beginnin	ng on page 3									

ame of Jurisdiction:	
ame and Title Completing Worksheet:	
ction Number:	
litigation Action Name:	

	Assessing the Risk
Hazard(s) addressed:	
Specific problem being mitigated:	
Eva	luation of Potential Actions/Projects
Actions/Projects Considered (name of project and reason for not selecting):	
	n/Project Intended for Implementation
Description of Selected Action/Project	
Mitigation Action Type	
Goals Met	
Applies to existing and or new development, or not applicable	
Benefits (losses avoided)	
Estimated Cost	
Priority*	
	Plan for Implementation
Responsible Organization	
Local Planning Mechanism	
Potential Funding Sources	
Timeline for Completion	
	Reporting on Progress
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



MONROE COUNTY 2015 HAZARD MITIGATION PLAN



Action	

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety		
Property Protection		
Cost-Effectiveness		
Technical		
Political		
Legal		
Fiscal		
Environmental		
Social		
Administrative		
Multi-Hazard		
Timeline		
Agency Champion		
Other Community Objectives		
Total		
Priority (Tier I, II or III)		



MONROE COUNTY 2015 HAZARD MITIGATION PLAN Mitigation Action Workshee



Education and Awareness Programs (EAP) - These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

Goals: Please insert the goals that would be met if the action/project is implemented

- Goal 1. Coordinate hazard mitigation programs that affect the County.
- Goal 2. Prevent hazards from impacting life, property, and the environment
- Goal 3. Protect life, property, and the environment from hazard impacts.
- Goal 4. Increase public awareness of hazards, their impacts, and ways to reduce vulnerability.
- Goal 5. Protect, preserve, and restore the functions of natural systems

Benefits: Please describe the losses avoided when the project is implemented. This includes physical property damage; loss of function; road closing/detours; etc.

Please provide the estimated cost or use the following ranges:

Low = < \$10,000 Medium = \$10,000 to \$100,000 High = > \$100,000

Priority: Please enter Tier I. II. or III. Refer to the prioritization exercise and table

Plan for Implementation

Potential Funding Source: Please identify the anticipated funding source, which could be "Grant funding with local cost share". Sources may include federal, state and local sources

Timeline for Completion: Short = 1 to 5 years. Long Term= 5 years or greater. OG = On-going program.

Reporting on Progress

For the current planning effort, this section does not need to be filled out. Each jurisdiction will have to update this section for each of their actions on an annual basis, prior to the annual Planning Committee update outlined in Section 7 (Plan Maintenance) of the HMP.

Please provide a status update on the selected action/project. Along with this description, please indicate if the action/project is completed or not completed.

Actions which are not complete may be dropped with a rational provided (e.g., project deemed unfeasible...).

Other incomplete actions should clearly be indicated as continuing; indicate percent complete, and identify any hurdles/obstacles/reasons for change in schedule. Even actions that have had no progress to date can be identified as continuing. For any action that is not yet complete and will continue, always consider modifying the action to promote implementation.



MONROE COUNTY 2015 HAZARD MITIGATION PLAN



Guidance to Complete the Mitigation Action Worksheet The following provides additional guidance on how to complete the Mitigation Action Worksheet. If you have any questions, please contact: Tony Subbio (tony.subbio@tetratech.com or 717-545-3580) or Alysse Stehli

Hazard(s) addressed: Please enter the hazard of concern you are mitigating. For this plan, the hazards of concern identified for the County are:

- Drought
- Earthquake
- Extreme Temperatures
- Flooding
- Infestation Landslide
- Severe Storms (windstorms, thunderstorms, hail, lightning, and tomados)
- Severe Winter Storms (heavy snow, blizzards, ice storms)

(alysse stehli @tetratech.com or 717-545-3580) at Tetra Tech

- Wildfin
- Hazardous Materials Incidents
- Terrorism
- Utility Failure (power, sewer, water, communications)

Specific problem being mitigated: Please describe the specific problem being mitigated.

Evaluation of Potential Actions/Projects

Actions/Projects Considered: Please consider different options to mitigate the problem identified. One alternative is always to accept the current level or risk (tolerate the vulnerability/problem) by deciding to take no action at this time.

Please include the name of the action considered and a brief reason as to why the action was not selected. The reasoning documents the consideration of these alternatives.

Action/Project Intended for Implementation

Description of the Selected Project: Please provide a brief description of the selected project.

- . Local Plans and Regulations (LPR) These actions include government authorities, policies or codes
- that influence the way land and buildings are being developed and built.

 Structure and Infrastructure Project (SIP) These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct mammade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.



MONROE COUNTY 2015 HAZARD MITIGATION PLAN



Guidance to Complete the Prioritization Table

Complete this table to help evaluate and prioritize each mitigation action being considered by your municipality. Please use these 14 criteria below to assist in evaluating and prioritizing new mitigation actions identified. Specifically, for each new mitigation action, assign a numeric rank (-1, 0, or 1) for each of the 14 evaluation criteria in the provided table, defined as follows:

- 1 = Highly effective or feasible
- 0 = Neutral
- -1 = Ineffective or not feasible

Use the numerical results of this exercise to help prioritize your actions as "Tier II", "Tier II" or "Tier III" priority. Four maneipanty may recognize outer factors of considerations that prioritization; these should be identified in narrative in the Priority field of the worksheet

- 1. Life Safety How effective will the action be at protecting lives and preventing injuries?
- 2. Property Protection How significant will the action be at eliminating or reducing damage to structures
- 3. Cost-Effectiveness Are the costs to implement the project or initiative commensurate with the benefits
- 4. Technical Is the mitigation action technically feasible? Is it a long-term solution? Eliminate actions that
- 5. Political Is there overall public support for the mitigation action? Is there the political will to support it?
- 6. Legal Does the jurisdiction have the authority to implement the action?
- Fiscal Can the project be funded under existing program budgets (i.e., is this initiative currently budgeted for)? Or would it require a new budget authorization or funding from another source such as grants?
- 8. Environmental What are the potential environmental impacts of the action? Will it comply with environmental regulations?
- 9. Social Will the proposed action adversely affect one segment of the population? Will the action disrupt established neighborhoods, break up voting districts, or cause the relocation of lower income people?
- 10. Administrative Does the jurisdiction have the personnel and administrative capabilities to implement the action and maintain it or will outside help be necessary?
- 11. Multi-hazard Does the action reduce the risk to multiple hazards?
- 12. Timeline Can the action be completed in less than 5 years (within our planning horizon)?
- 13. Local Champion Is there a strong advocate for the action or project among the jurisdiction's staff, governing body, or committees that will support the action's impler
- 14. Other Local Objectives Does the action advance other local objectives, such as capital improvements, economic development, environmental quality, or open space preservation? Does it support the policies of other plans and programs?

December 15, 2015 | 10:00 a.m. - 12:00

Tuesday





6

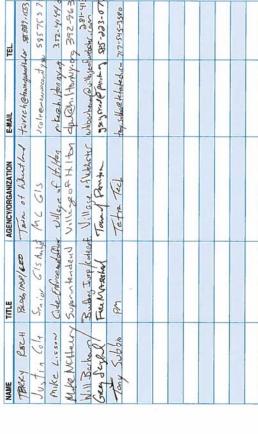
MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT



Annex Workshop - Morning











Meeting	Monroe County Hazard Mitigation Plan (HMP)	Monroe County Hazard Mitigation Plan (HMP) Annex Workshop #2						
Date	December 15, 2015	December 15, 2015 Time 2:00 – 3:00 p.m.						
Location	Monroe County Office of Emergency Manager	Monroe County Office of Emergency Management, Rochester, NY						
Attendees	David Miller, Village of Brockport							
	Dawn Forte, Town of Chili							
Attendees	Gregory D. Merrick, Town of Irondequoit							
	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)							

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The purpose of the Annex Workshop was to review the layout of the jurisdictional annexes and answer Planning committee members' questions regarding completing the annexes. This was the second of two identical workshops.

Discussion Points

This section summarizes each discussion point addressed during the workshop.

Iurisdictional Annex Layout

Mr. Subbio reviewed the different sections of the jurisdictional annexes, as follows:

- The HMP Point of Contact section should list the primary and alternate individuals responsible for
- development of the annex that will serve on the Planning Committee for the next 5 years.

 The Municipal Profile section describes the jurisdiction based on existing plans and the information provided on the New Development Worksheet.
- The Natural Hazard Event History summarizes hazard impacts listed in the hazard profiles, specific to the jurisdiction. It is based on the Events and Losses Worksheet and research conducted by Tetra Tech. Planning Committee members should review the information captured for accuracy.
- The Hazard Vulnerability and Ranking table will be completed by Tetra Tech. It shows the expected losses and risk priority of each of the hazards of concern.
- The National Flood Insurance Program (NFIP) Summary table shows NFIP statistics for the jurisdiction. The Federal Emergency Management Agency (FEMA) provided the numbers of repetitive loss (RL) and severe repetitive loss (SRL) properties. Activities that mitigate the flood hazard for these properties may be eligible for an increased federal share under FEMA's Flood Mitigation Assistance (FMA) program. A operty must have a flood insurance policy in effect to be classified as an RL or SRL pro
- The critical facilities within the 1% and 0.2% annual chance floodplains are shown in the Critical Facilities
- The Capability Assessment section is populated with information provided on the Municipal Capability Assessment Worksheet. Planning Committee members should ensure that all applicable items are filled in Tetra Tech staff will work with each jurisdiction to ensure that they are.
- The Past Mitigation Initiative Status table is populated with information from the Action Review Worksheet Planning Committee members should review the table to ensure it is accurate



MEETING NOTES

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- Mitigation actions that are being carried over to the updated HMP will appear in the Proposed Hazard Mitigation Initiatives table. Planning Committee members should also list new actions in this table. Tetra Tech will work with Planning Committee members to ensure the table is complete, and that Action Worksheets are completed for any actions that require them.
- . Each annex will include two maps. The first map shows the 1% and 0.2% annual chance floodplains and the jurisdiction's critical facilities. The second map shows the landslide and wildfire hazard areas with the jurisdiction's critical facilities.

Action Worksheet

Mr. Subbio provided a copy of Tetra Tech's version of the Action Worksheet, which Paul Hoole from FEMA Region II discussed at the November 2015 Planning Committee meeting. Mr. Subbio reiterated that Tetra Tech staff will work with each jurisdiction to ensure that the Action Worksheets are completed. The Action Worksheets will be included at the end of each jurisdictional annex

Next Steps

The following next steps were identified during the meeting:

- Each jurisdiction will identify mitigation actions for inclusion in the plan.
- Tetra Tech will work with the jurisdictions to complete their annexes.
- The December 2015 Planning Committee meeting will be held from 9:00 a.m. to 11:00 a.m. on December
- A public meeting to review the mitigation strategy will be conducted on the evening of December 16, 2015.

With no further questions, Mr. Subbio thanked attendees for their time. The meeting concluded at 3:00 p.m.



AGENDA

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Annex Workshop - Afternoon Agenda

Tuesday, December 15, 2015 | 2:00 - 4:00 p.m.

1. Welcome

Jurisdictional Annex Layout a. HMP Point of Contact b. Municipal Profile

- c. Natural Hazard Event History d. Hazard Vulnerability and Ranking
- e. Capability Assessment
 f. Integration of Hazard Mitigation into Existing and Future Planning Mechanisms
- g. Mitigation Strategy and Prioritization
 h. Future Needs to Better Understand Risk/Vulnerability
 i. Hazard Area Extent and Location

3. Action Worksheet

- Next Steps
 a. Identify mitigation actions with each jurisdiction

 - Identify mitigation actions that call
 Finalize jurisdictional annexes
 Next Planning Committee Meeting
 Review Mitigation Strategy

 - ii. December 16, 2015
 - d. Mitigation Strategy Public Meeting December 16, 2015

5. Questions







Agenda Welcome Jurisdictional Annex Layout Action Worksheet Next StepsQuestions 0

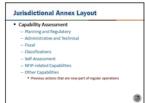






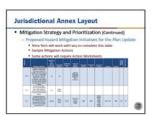
















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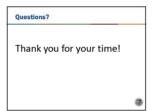


Next Steps

- Identify mitigation actions
 Finalize jurisdictional annexes
 Next Planning Committee Meeting
- gation Strategy Review ember 16, 2015, 9:00 11:00 a.m.

Public Meeting – Mitigation Strategy Review
 December 16, 2015, 6:00 – 7:30 p.m.

(8)







9.1 MUNICIPALITY NAME

This section presents the jurisdictional annex for the MUNICIPALITY NAME.

9.1.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan's primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
NAME, TITLE	NAME, TITLE
ADDRESS	ADDRESS
PHONE	PHONE
EMAIL	EMAIL

9.1.2 Municipal Profile

PUT TOGETHER A BRIEF DESCRIPTION OF THE MUNICIPALITY DICLUDE THE SIZE OF THE MUNICIPALITY (SQUARE MILES), THE 2010 CENSUS, UNINCORPORATED AREAS, AND BODIES OF WATER. ALSO INCLUDE ITS LOCATION WITHIN THE COUNTY AND WHAT MUNICIPALITIES BORDER IT.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2010 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the map in Section 9.8.8 of this annex which illustrates the hazard areas along with the location of potential new development.

The MUNICIPALITY NAME did not note any recent residential/commercial development since 2010 or any major residential or commercial development, or major infrastructure development planned for the next five years in the municipality.

Table 9.2-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zone(s)	Description/Status of Development			
	Recent Development from 2010 to present							
Known or Anticipated Development in the Next Five (5) Years								

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DMA 2000 Hazard Mitigation Plan Update - Monroe County, New York MONTH 2016



Section 9.X: MUNICIPALITY NAME

9.1.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant's vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the MI PALITY NAME. For additional vulnerability information relevant to this jurisdiction, refer to

Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for the MUNICIPALITY NAME.

Table 9.2-3. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard * <	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b

- Building damage ratio estimates based on FEMA 386-2 (August 2001)
 The valuation of general building stock and loss estimates was based on custom inventory for the municipality.
 High * Total hazard priority risk runking score of 31 and above
 Medium * Total hazard priority risk runking of 20-30+
 Low * Total hazard risk runking below 20
 Low = Total hazard risk runking below 20
 Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the values of the severe storm and severe winter storm hazards are structural values only and do not include the values.
- Loss estimates for the flood and earthquake hazards represent both stru
 The HAZUS-MH earthquake model results are reported by Census Tract.



Section 9.X: MUNICIPALITY NAME

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zone(s)	Description/Status of Development

^{*} Only location-specific hazard zones or vulnerabilities identified.

9.1.3 Natural Hazard Event History Specific to the Municipality

Monroe County has a history of natural and non-natural hazard events as detailed in Volume I. Section 5.0 of Monroe County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. For the purpose of this plan update, to the extent possible, all events that have occurred in the County were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.2-2. Hazard Event History

Table 5.2-2. Hazard Event History									
Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses					

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Section 9.X: MUNICIPALITY NAME

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the MUNICIPALITY NAME.

Table 9.2-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100- year Boundary (3)	# Polices in 500- Boundary (3)	# Policies Outside the 500- year Flood Hazard (3)
Source: FEMA,								

Critical Facilities

The table below presents HAZUS-MH estimates of the damage and loss of use to critical facilities in the community as a result of a 1- and 0.2-percent annual chance flood events.

Table 9.2-5. Potential Flood Losses to Critical Facilities

			Exposure		Potential Loss from 1% Flood Event			Potential Loss from 0.2% Flood Event		
Name	Туре	Exposure	1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	Days to 100- Percent ⁽²⁾	Percent Structure Damage	Percent Content Damage	Days to 100- Percent ⁽²⁾
	_									

HAZUS MH 2.1

HAZUS MH 2.1 provides a general indication of the maximum restoration time for 100% operations. Clearly, a great deal of effort is needed to quickly restore essential facilities to full functionality; therefore this will be an indication of the maximum downtime (HAZUS MH 2.1 User Manual).

In some cases, a facility may be located in the DFIRM flood hazard boundary; however HAZUS did not calculate potential loss. This may be because the depth of flooding does not amount to any damages to the structure according to the depth damage function used in HAZUS for that facility type. Further, HAZUS-MH may estimate potential damage to a facility that is outside the DFIRM because the model generated a depth grid beyond the DFIRM boundaries.





Other Vulnerabilities Identified

The municipality has identified the following vulnerabilities within their community:

IDENTIFIED IN THE FIS FOR FLOODING AREAS IN THE MUNICIPALITY





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9.X-7



Section 9.X: MUNICIPALITY NAME

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Municipal Separate Storm Sewer System (MS4)				
Natural Hazard Ordinance				
Post-Disaster Recovery Ordinance				
Real Estate Disclosure Requirement				
Other [Special Purpose Ordinances (i.e., sensitive areas, steep slope)]				

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the MUNICIPALITY NAME.

Table 9.2-7. Administrative and Technical Capabilities

	Is this in	
Resources	place? (Yes or No)	Donaton and Association
Administrative Capability	(Tes or No)	Department/ Agency/Position
Planning Board		
Mitigation Planning Committee		
Environmental Board/Commission		
Open Space Board/Committee		
Economic Development Commission/Committee		
Maintenance Programs to Reduce Risk		
Mutual Aid Agreements		
Technical/Staffing Capability		
Planner(s) or Engineer(s) with knowledge of land development and land management practices		
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure		
Planners or engineers with an understanding of natural hazards		
NFIP Floodplain Administrator		
Surveyor(s)		
Personnel skilled or trained in GIS and/or HAZUS-MH applications		
Scientist familiar with natural hazards		
Emergency Manager		
Grant Writer(s)		
Staff with expertise or training in benefit/cost analysis		
Professionals trained in conducting damage assessments		



Section 9.X: MUNICIPALITY NAME

9.1.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability Community classification
- National Flood Insurance Program
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms

Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the MUNICIPALITY NAME.

Table 9.2-6. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan				
Capital Improvements Plan				
Floodplain Management / Basin Plan				
Stormwater Management Plan				
Open Space Plan				
Stream Corridor Management Plan			i i	
Watershed Management or Protection Plan				
Economic Development Plan				
Comprehensive Emergency Management Plan				
Emergency Response Plan			i i	
Post-Disaster Recovery Plan			i i	
Transportation Plan			i i	
Strategic Recovery Planning Report			i i	
Other Plans:			i i	
Regulatory Capability				
Building Code				
Zoning Ordinance				
Subdivision Ordinance				
NFIP Flood Damage Prevention Ordinance				
NFIP: Cumulative Substantial Damages				
NFIP: Freeboard				
Growth Management Ordinances				
Site Plan Review Requirements				
Stormwater Management Ordinance				



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Section 9.X: MUNICIPALITY NAME

Fiscal Capability

The table below summarizes financial resources available to the MUNICIPALITY NAME.

Table 9.2-8. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	
Capital Improvements Project Funding	
Authority to Levy Taxes for specific purposes	
User fees for water, sewer, gas or electric service	
Impact Fees for homebuyers or developers of new development/homes	
Stormwater Utility Fee	
Incur debt through general obligation bonds	
Incur debt through special tax bonds	
Incur debt through private activity bonds	
Withhold public expenditures in hazard-prone areas	
Other Federal or State Funding Programs	
Open Space Acquisition Funding Programs	
Other	

Community Classifications

The table below summarizes classifications for community program available to the MUNICIPALITY NAME.

Table 9.2-9. Community Classifications

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)			
Building Code Effectiveness Grading Schedule (BCEGS)			
Public Protection (ISO Fire Protection Classes 1 to 10)			
Storm Ready			
Firewise			
Disaster/Safety Programs in/for Schools			
Organizations with Mitigation Focus (advocacy group, non-government)			
Public Education Program/Outreach (through website, social media)			
Public-Private Partnerships			

N/A = Not applicable. NP = Not participating. - = Unavailable. TBD = To be determined.

The classifications listed above relate to the community's ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community's capabilities in all phases of energency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class



applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

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

Self-Assessment of Capability

The table below provides an approximate measure of the MUNICIPALITY NAME's capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.1-1. Self-Assessment Capability for the Municipality

	Degree of Hazard Mitigation Capability							
Area	Limited (If limited, what are your obstacles?)*	Moderate	High					
Planning and Regulatory Capability								
Administrative and Technical Capability								
Fiscal Capability								
Community Political Capability								
Community Resiliency Capability								
Capability to Integrate Mitigation into Municipal Processes and Activities.								

NAME, TITLE

ADD INFO FROM FPA HERE

ADD INFO FROM FPA HERE

ADD INFO FROM FPA HERE



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Section 9.X: MUNICIPALITY NAME

9.1.6 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritization

Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2010 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under 'Capability Assessment' presented previously in this



ADD INFO FROM FPA HERE

Community Rating System

The MUNICIPALITY NAME does/does not participate in the Community Rating System (CRS) program.

Other Capabilities Identified

Previous actions that are now on-going programs and capabilities are described below. Refer to Table 9.X-11 presented later in this annex.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-today local government operations. As part of this planning effort, each community was surveyed to obtain a better understanding of their community's progress in plan integration. A summary is provided below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

Planning

INSERT INFO IF APPLICABLE

Regulatory and Enforcement (Ordina

INSERT INFO IF APPLICABLE

Operational and Administration

INSERT INFO IF APPLICABLE

Funding

INSERT INFO IF APPLICABLE

Education and Outreach

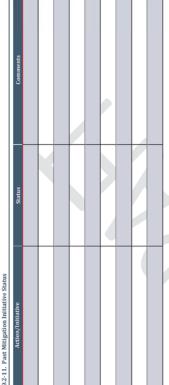
INSERT INFO IF APPLICABLE



DMA 2000 Hazard Mitigation Plan Update – Monroe County, New York MONTH 2016

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Section 9.X: MUNIC

Fable 9.1-2. Proposed Hazard Mitigation Initiatives

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Mitigation			3	17	
Priority	A CONTRACTOR OF THE PARTY OF TH		100	0	
Timeline					
Sources of Funding					
Estimated Estimated Benefits Cost					
Lead and Support Agencies					
Goals and Objectives Met					
Hazard(s) Mitigated					
Applies to New and/or Existing H Structures*					
Mitigation Initiative					
evitsitinl					

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DMA 2000 Hazard Mitigation Plan Update – Monroe County, New York MONTH 2016



DMA 2000 Hazard Mitigation Plan Update – MONTH 2016

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High

and Regulations (LPR) – These actions nd Infrastructure Project (SIP)- These apply to public or private structures as

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Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy The MUNICIPALITY NAME has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2010 Plan:

Proposed Hazard Mitigation Initiatives for the Plan Update

The MUNICIPALITY NAME participated in a mitigation action workshop in XXXX and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 'Selecting Appropriate Mitigation Measures for Floodprone Structures' (March 2007) and FEMA 'Mitigation Ideas — A Resource for Reducing Risk to Natural Hazards' (January 2013). In XXXXX the MUNICIPALITY NAME participated in a second workshop and was provided the results to the risk assessment to further assist with the identification of mitigation activities. mitigation actions.

Table 9.2-11 summarizes the comprehensive-range of specific mitigation initiatives the MUNICIPALITY
NAME would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be
previous actions carried forward for this plan update. These initiatives are dependent upon available funding
(grants and local match availability) and may be modified or omitted at any time based on the occurrence of
new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and
the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of
activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as 'High', 'Medium', or 'Low.' The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.8-12 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.

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DMA 2000 Hazard Mitigation Plan Update – Monroe County, New York MONTH 2016

9.X-14

DMA 2000 Hazard Mitigation Plan Update – MONTH 2016 **P**

able 9.8-12. Summary of Prioritization of Actions

Section 9.X: MUNICIPALITY NAME

Figure 9.1-1. MUNICIPALITY NAME Hazard Area Extent and Location Map 1

Figure 9.1-2. MUNICIPALITY NAME Hazard Area Extent and Location Map 2

Figure 9.1-3. MUNICIPALITY NAME Hazard Area Extent and Location Map 3

Figure 9.1-4. MUNICIPALITY NAME Hazard Area Extent and Location Map 4



Section 9.X: MUNICIPALITY NAME

9.1.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

9.1.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the MUNICIPALITY NAME that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the MUNICIPALITY NAME has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.1.9 Additional Comments

None at this time.



DMA 2000 Hazard Mitigation Plan Update – Monroe County, New York MONTH 2016

9.X-18



Section 9.X: MUNICIPALITY NAME

ACTION WORKSHEETS WILL GO HERE



9.X-19

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

Please review the following suggested initiatives for inclusion into your mitigation strategy. At a minimum, we highly recommend that you include:

- An initiative identifying how your community will support efforts to mitigate vulnerable private property via elevation and/or acquisition.
- At least one public outreach/education initiative that outlines <u>specific ways</u> that you intend to <u>expand or enhance</u> your current outreach efforts.
- At least one initiative that addresses continued <u>and enhanced</u> participation in the NFIP, with <u>specific details</u> of those activities that will enhance your local NFIP program.
- An initiative identifying how the findings and recommendations of this Hazard Mitigation Plan can be applied to other related planning and regulatory programs within your municipality.

If you choose to incorporate an initiative_please expand/customize it for your municipality_your way of operating, your capabilities, etc.

P. S

Estimated Cost

Lead

Objectives Met

Applies to New and/or Existing Structures*

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

High

Low-Medium

High

Flood

New and Existing

8

High

Short

Low

Including natural hazard risk and risk reduction information through social media channels and e-mail bast systems.

Posting of figers and other readily available NFIP informational materials at TownVillage/City half or distributing at regular civic meetings.

Preparing, distributing, and analyzing public surveys.

Preparing, distributing, and analyzing public surveys.

Preparing, distributing, and analyzing public surveys.

Enhancing public outreach and mapping can be posted.

Enhancing public outreach are readeries in NFIP floodplain areas to inform them of annual grant opportunities, which may include distributing perificition by hundrods in the annual newsetter.

natural hazard risk preparedness and mitigation,

egulating all new and community. Further meet

adoption and enfo floodplain identific

NFIP including rd flood areas).

tanding in the

compliance with and good

All Hazards

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See above.

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

	GENE	KAL MI IG	A I I ON SI KA	EGIES LO	K CONSIDER	GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS	PARIC	PANIO		
# evitatini	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Laad Agency	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Prio rity
	Support and participate in county-led initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1), specifically; • Mitigation education for natural dissaters (natural hazard awareness and personal scale risk reduction/mitigation public education and outreach program) • Local floodplain management and dissater recovery capabilities (enhanced flood)sian management, and post-dissater assessment and recovery capabilities) • Jurisdictional knowledge of mitigation needs of property owners (improved understanding of damage and mitigation interstanding of property owners) • Aligment of mitigation initiatives through all levels of government (effort to build state and federal-level recognition and support of the County and local hazard	ed initiatives intra atural disasters nent and disaste of mitigation nee itiatives through	ended to build loc (natural hazard a er recovery capab eds of property on all levels of gove	al and regional wareness and lailities (enhance whers (improve	mitigation and rispersonal scale rispersonal scale rispersonal characteristic dunderstanding conditions to build state and	sk-reduction capat k reduction/mitigal agement, and posi of damage and mit federal-level recog	ilities (see Se son public edi disaster assigation interes prition and su	ction 9.1), spe acation and out assment and re ************************************	cifically: reach program) covery capabilities; rate property owner unty and local haza	g g
	mitigation planning strategies identified in this plan). New and Evisting All Hazar	ples identified in New and Existing	this plan).	All Objectives	County, as supported by relevant local deparment leads,	High (compre- hensive improvements, mitigation and risk-reduction capabilities)	Low- Medium (locally)	Local (staff resources)	Short	Ę
	Begin the process to promote or adopt high required to an adopt high required to the control of	New and Existing	Flood		Town/Village NEIP FPA and Town/ Village Board, with support of WYSDEC for model ordinance	Medium	Low	Municipal Budget	Short	HgH

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

# evitatini	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead Agency	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	all y
	Support the mitgation of vulnerable structures via retroff (e.g. elevation, flood-proofing) or acquisition/relocation to protect them from future clamage, repetitive loss and severe repetitive loss properties should be a priority when applicable.	e structures via lould be a priori	retrofit (e.g. eleva ity, when applicabl	tion, flood-proo le.	ning) or acquisibo	n/relocation to pro	stect them fro	m future damag	e; repetitive loss a	D.
	Phase 1: Identify appropriate candidates and debarmine most cost-effective mitigation option (in progress). Phase 2: Work with the property owners to implement selected action based on available funding from FEMA and local match availability.	indidates and d y owners to imp	etermine most co element selected a	st-effective miti	gation option (in g available funding	from FEMA and	local match av	railability.		
	Specifically identified are properties in the following areas: ### ### ###	s in the followin	g areas:							
	Alternative wording:									
	Assess and prioritize feasible non-structural flood hazard mitigation alternatives for at-risk properties within the floodplain (including those that have been identified as repetitive feasible closs) such as acquisition relative sources. The parameters for feasibility for this inflative would founde the following, funding, benefits vertus costs, and willing participation of property owners. Inclinate the funding becomes available. Specifically identified are properties in the following areas: • ### • ### • ###	structural flood frelocation, or e ners. Implement	hazard mitigation levation. The part t as funding becon	alternatives for ameters for fea nes available.	at-risk properties sibility for this init Specifically identi	within the floodpl ative would inclu fied are propertie	ain (including de the followin s in the followi	those that having; bening areas:	s been identified as effts versus costs, i	Pu
	排				Town/Village/ City Engineering			FEMA Mitigation Grant	Ongoing (outreach and	
	See above.	Existing	Storm, Widfire, Winter Storm		(via NFIP FPA) with NYS DHSES, FEMA support	Hgh	High	Programs and local budget (or property owner) for	specific project identification); Long-term DOF (specific project application and	High

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

	Develo	•	See at
# evitatini			
Prio rity	Medi En		High
Timeline	Short		Ongoing
Estimated Sources of Cost Funding	Local Budget Short		Local Budget Ongoing
Estimated Cost	Medium		Low
Estimated Benefits	Medium – High (reduced risk of utility outages; life safety)		Medium – High (reduced utility outages)
Lsad Agency	Engineering and DPW, working with confractors and local utilities	Froninearing	and DPW, working with local utilities and developers
Objectives Met			
Hazard(s) Mitigated	Severe Storm; Severe Winter Storm		Severe Storm; Severe Winter Storm
Applies to New and/or Existing Structures*	Edisting		New and Edisting
Mitigation Initiative	Enhance or expand tree maintenance program (under contract with ####) and coordinate with utility companies.	Work with utility companies and developers to bury utility lines	Consider requiring underground utilities for any new development. Work with Planning Board so that burying utilities is promoted in development plans.
# evitatini			

Sources	e need to r	reported to	Municipal Budget	Municipal Budget
Estimated Sources Cost Fundin	y owners of th	ises, etc.) as	Low- Medium	Low
Estimated Benefits	s:) to inform property ng substantial carr	age, economiclos	Medium – High (life Safety; Increased eligibility for mitigation grant funding)	Medium - High
Lead Agency	ollowing element Initiatives above ssments, includii	ice, property dam	Engineering (Town/Village /City NFIP FPA); Town/Village Supervisor's Office	Town/Village/ City NFIP FPA, as fully supported by local government
Objectives Met	including the I and Awareness at damage ass	es (loss of serv		
Hazard(s) Mitigated	ssment program. Jublic Education a airs, if necessary.	database) of losse cess).	Flood; Severe Storm; Severe Winter Storm	Flood
Applies to New and/or Existing Structures*	nt damage asse education (see F hen making rep al resources to o	system and/or o	Existing	N/A
Mitigation Initiative	Develop and implement a post-event damage assessment program, including the following elements: Conduct public outreachleducation (see Public Education and Awareness Initiatives above) to inform property owners of the need to redain required parmits when making repairs. If necessary. Develop and organize local resources to conduct post-event damage assessments, including substantial camage determinations as w	 Develop an invertory (file system and/or database) of losses (loss of service, property damage, economic losses, etc.) as reported to Town/Village/City (e.g. building permit process). 	See above.	Support participation in the NFIP Community Ratio System (CRS) program by attending CRS workshop(s) if offered within the country. Join the CRS program if adequate resources to program if adequate resources to he deficient
# eviteitinl	_			
Prio rity	Medi		High	
Timeline			Ongoing	
Estimated Sources of Cost Funding	Local Budget Short		Local Budget Ongoing	
Estimated Cost	Medium		Low	
	_		£ >	I
Estimated Benefits	Medium – High (reduced risk of utility outages; life safety)		Medium – High (reduced utility outages)	
s Lead Estimated Agency Benefits	Engineering and DPW, Medium – High working with (reduced risk of contractors utility outages; and local life safety)	Frontegrina		

High

High

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

Timeline	Short (DOF)	Short	Short (DOF)	
Sources of Funding	Municipal Budget	Local Budget	Local Budget; Emergency Manageme nt grants as available	
Estimated Cost	Low	Low	Medium - High	
Estimated Benefits	Medium	Medium (improved understanding of flood risk areas)	High (reduced interruption of critical facilities and services; life safety)	
Lead Agency	Town//illage/ City NFIP FPA	Engineering. Planning Board	Engineering and DPW	
Objectives Met				
Hazard(s) Mitigated	Flood	Flood, Wildfire	Severe Storm; Severe Winter Storm	Severe Storm; Severe Winter Storm
Applies to New and/or Existing Structures*	N/A	New and Existing	Existing	Existing
Mitigation Initiative	Designate with PF Picoplain Administrator (FA), and other Incoal difficials are to would tenefit, become a Certified Floodplain Manager (CER) through the Association of State Prodplain Manager (CER) and flew Manager (ASPM) and flew (IN SSPM), and pruse (IN SSPM), and purse floodplain Managers Association (IN SSPM), and purse floodplain Managers Association floodplain Managers Association Cost Analysis (SCA) and Substantial Demage Estimation (SCE).	Develop and maintain mapping of all matural hazard risk areas in the Town/Village/City, FEMAdelineated or otherwise, to support and use decision marking (e.g. Planning Board, site marking rocess.).	Install back-up power at the following critical facilities in the Town/Misge/City: ### ### ###	Work with County and power companies to identify roads within the Town/Villagoa/City considered 'critical' would be the first priority for clearing after an event involving downed power litres.
# evitatini				

High

High

High



MONROE COUNTY 2015 HAZARD MITIGATION PLAN Mitigation Action Worksheet



Please complete !	the following	two tables per	NEW	action/project	with a	as much	detail	as possible,	using	th
guidance beginnin	ng on page 3									

ame of Jurisdiction:	
ame and Title Completing Worksheet:	
ction Number:	
litigation Action Name:	

Mitigation Action Name:	
	Assessing the Risk
Hazard(s) addressed:	
Specific problem being mitigated:	
Evi	luation of Potential Actions/Projects
Actions/Projects Considered (name of project and reason for not selecting):	
Actio	n/Project Intended for Implementation
Description of Selected Action/Project	
Mitigation Action Type	
Goals Met	
Applies to existing and or new development, or not applicable	
Benefits (losses avoided)	
Estimated Cost	
Priority*	
	Plan for Implementation
Responsible Organization	
Local Planning Mechanism	
Potential Funding Sources	
Timeline for Completion	
	Reporting on Progress
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:



MONROE COUNTY 2015 HAZARD MITIGATION PLAN



Action	

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety		
Property Protection		
Cost-Effectiveness		
Technical		
Political		
Legal		
Fiscal		
Environmental		
Social		
Administrative		
Multi-Hazard		
Timeline		
Agency Champion		
Other Community Objectives		
Total		
Priority (Tier I, II or III)		



MONROE COUNTY 2015 HAZARD MITIGATION PLAN Mitigation Action Workshee



Education and Awareness Programs (EAP) - These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities.

Goals: Please insert the goals that would be met if the action/project is implemented

- Goal 1. Coordinate hazard mitigation programs that affect the County.
- Goal 2. Prevent hazards from impacting life, property, and the environment
- Goal 3. Protect life, property, and the environment from hazard impacts.
- Goal 4. Increase public awareness of hazards, their impacts, and ways to reduce vulnerability.
- Goal 5. Protect, preserve, and restore the functions of natural systems

Benefits: Please describe the losses avoided when the project is implemented. This includes physical property damage; loss of function; road closing/detours; etc.

Please provide the estimated cost or use the following ranges:

Low = < \$10,000 Medium = \$10,000 to \$100,000 High = > \$100,000

Priority: Please enter Tier I. II. or III. Refer to the prioritization exercise and table

Plan for Implementation

Potential Funding Source: Please identify the anticipated funding source, which could be "Grant funding with local cost share". Sources may include federal, state and local sources

Timeline for Completion: Short = 1 to 5 years. Long Term= 5 years or greater. OG = On-going program.

Reporting on Progress

For the current planning effort, this section does not need to be filled out. Each jurisdiction will have to update this section for each of their actions on an annual basis, prior to the annual Planning Committee update outlined in Section 7 (Plan Maintenance) of the HMP.

Please provide a status update on the selected action/project. Along with this description, please indicate if the action/project is completed or not completed.

Actions which are not complete may be dropped with a rational provided (e.g., project deemed unfeasible...).

Other incomplete actions should clearly be indicated as continuing; indicate percent complete, and identify any hurdles/obstacles/reasons for change in schedule. Even actions that have had no progress to date can be identified as continuing. For any action that is not yet complete and will continue, always consider modifying the action to promote implementation.



MONROE COUNTY 2015 HAZARD MITIGATION PLAN



Guidance to Complete the Mitigation Action Worksheet

The following provides additional guidance on how to complete the Mitigation Action Worksheet. If you have any questions, please contact: Tony Subbio (tony.subbio@tetratech.com or 717-545-3580) or Alysse Stehli (alysse stehli @tetratech.com or 717-545-3580) at Tetra Tech

Hazard(s) addressed: Please enter the hazard of concern you are mitigating. For this plan, the hazards of concern identified for the County are:

- Drought
- Earthquake
- Extreme Temperatures
- Flooding
- Infestation Landslide
- Severe Storms (windstorms, thunderstorms, hail, lightning, and tomados)
 - Severe Winter Storms (heavy snow, blizzards, ice storms)
- Wildfin
- Hazardous Materials Incidents
- Terrorism
- Utility Failure (power, sewer, water, communications)

Specific problem being mitigated: Please describe the specific problem being mitigated.

Evaluation of Potential Actions/Projects

Actions/Projects Considered: Please consider different options to mitigate the problem identified. One alternative is always to accept the current level or risk (tolerate the vulnerability/problem) by deciding to take no action at this time.

Please include the name of the action considered and a brief reason as to why the action was not selected. The reasoning documents the consideration of these alternatives.

Action/Project Intended for Implementation

Description of the Selected Project: Please provide a brief description of the selected project.

- . Local Plans and Regulations (LPR) These actions include government authorities, policies or codes
- that influence the way land and buildings are being developed and built.

 Structure and Infrastructure Project (SIP) These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct mammade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.



MONROE COUNTY 2015 HAZARD MITIGATION PLAN **Guidance to Complete the Prioritization Table**

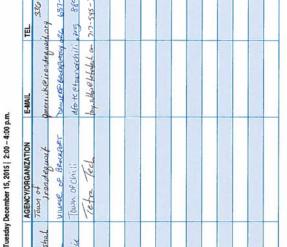


Complete this table to help evaluate and prioritize each mitigation action being considered by your municipality. Please use these 14 criteria below to assist in evaluating and prioritizing new mitigation actions identified. Specifically, for each new mitigation action, assign a numeric rank (-1, 0, or 1) for each of the 14 evaluation criteria in the provided table, defined as follows:

- 1 = Highly effective or feasible
- 0 = Neutral
- -1 = Ineffective or not feasible

Use the numerical results of this exercise to help prioritize your actions as "Tier II", "Tier II" or "Tier III" priority. Four maneipanty may recognize outer factors of considerations that prioritization; these should be identified in narrative in the Priority field of the worksheet

- 1. Life Safety How effective will the action be at protecting lives and preventing injuries?
- 2. Property Protection How significant will the action be at eliminating or reducing damage to structures
- 3. Cost-Effectiveness Are the costs to implement the project or initiative commensurate with the benefits
- 4. Technical Is the mitigation action technically feasible? Is it a long-term solution? Eliminate actions that
- 5. Political Is there overall public support for the mitigation action? Is there the political will to support it?
- 6. Legal Does the jurisdiction have the authority to implement the action?
- Fiscal Can the project be funded under existing program budgets (i.e., is this initiative currently budgeted for)? Or would it require a new budget authorization or funding from another source such as grants?
- 8. Environmental What are the potential environmental impacts of the action? Will it comply with environmental regulations?
- 9. Social Will the proposed action adversely affect one segment of the population? Will the action disrupt established neighborhoods, break up voting districts, or cause the relocation of lower income people?
- 10. Administrative Does the jurisdiction have the personnel and administrative capabilities to implement the action and maintain it or will outside help be necessary?
- 11. Multi-hazard Does the action reduce the risk to multiple hazards?
- 12. Timeline Can the action be completed in less than 5 years (within our planning horizon)?
- 13. Local Champion Is there a strong advocate for the action or project among the jurisdiction's staff, governing body, or committees that will support the action's impler
- 14. Other Local Objectives Does the action advance other local objectives, such as capital improvements, economic development, environmental quality, or open space preservation? Does it support the policies of other plans and programs?





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MEETING NOTES

Meeting	Monroe County Hazard Mitigation Plan (HMP) Plannin	g Commit	ttee Meeting	
Date	December 16, 2015	Time	9:00 a.m. – 10:00 a.m.	
	Mike Vergari, Fire Marshal, Town of Sweden			
	Rob Boutillier, Fire Marshal, Town of Webster			
	Jake Swingly, Superintendent of Public Works, Village of Webster Jay Coates, Fire Marshal, Town of Wheatland			
Attendees	Eric DiPalma, American Red Cross			
(continued)	William Platt, Disaster Specialist, American Red Cross			
	Todd B. Bane, Chief, Rochester Airport			
	Dave Kester, Safety, Rochester Genesee Regional Tra Service	ansportati	ion Authority Regional Transit	
	Tony Subbio, Project Manager, Tetra Tech, Inc. (Tetra	Tech)		

The purpose of the Planning Committee meeting was to discuss the mitigation actions that appear in the updated HMP. This meeting aligned with the "Draft an Action Plan" step of the mitigation planning process

Discussion Points

Discussion points addressed during the Planning Committee meeting are summarized below.

Mr. Rion discussed the community meeting that occurred in the Village of Churchville on December 10, 2015. Approximately 20-30 residents of the Village attended the meeting to discuss the erosion of the banks of Black Creek along Willowbank Drive. Natural erosion is threatening to destroy the residences along the creek. Representatives from the Village, MCOEM, and the State of New York Department of Environmental Conservation were present to discuss the issue. The Village will be reaching out to the U.S. Army Corps of Engineers and local institutions of higher education to discuss the issue and identify options for mitigating the impacts on residences

Mr. Rion also discussed that he has been posting to the MCOEM's Facebook page to provide information to the

No other outreach activities have been conducted.

Mitigation Actions Review

Mr. Subbio led a discussion regarding the mitigation actions that each jurisdiction may include in its annex, and actions that have already been identified by some jurisdictions for inclusion. He pointed out the difference between actions that have already often increment by some jurisdictors for industrial, the pointed some are uncrement exercises heazard mitigation action categories between the Islaster Mitigation Act of 2000 (IAM 2000) the Community Rating System (CRS). Current FEMA hazard mitigation planning guidance identifies the following categories of mitigation actions: (1) local plans and regulations, (2) structure and infrastructure projects, (3) natural systems protection, and (4) education and awareness programs. CRS still uses the previous set of mitigation categories: (1) prevention, (2)



4

MEETING NOTES

Meeting	Monroe County Hazard Mitigation Plan (HMP)	Planning Committee Meeting
Date	December 16, 2015	Time 9:00 a.m. – 10:00 a.m.
Location	Monroe County Office of Emergency Management (MCOEM), Rochester, New York	
	Fred Rion, Emergency Preparedness Administrator, MCOEM	
	Kristina Daugherty, Emergency Management (EM) Program Specialist, MCOEM	
	Mark Leszczynski, EM Tech, MCOEM	
	Tina Carson, Operations Manager, Monroe County 9-1-1	
	Michelle Virts, Associate Engineer, Monroe County Department of Environmental Services (MI DES)	
	Perry Wheeler, Director of Operations, Monroe County Department of Human Services	
	Jennifer Kusse, Chief Information Officer, Monroe County Department of Information Services	
	Robin Finnerty, Economic Development Assistant, Monroe County Department of Planning an Development	
	Eric Ammerman, Senior Public Health Sanitarian, Monroe County Department of Public Health (DPH)	
	Justin Cole, Senior GIS Analyst, Monroe County Geographic Information System (GIS)	
	Michael Slattery, Monroe County Department of Transportation (MCDOT)	
	Brad Smith, Monroe County Water Authority	
	Chad Roscoe, Engineer, Town of Brighton	
	Dawn Forte, Supervisor's Office, Town of Chili	
Attendees	Paul Robinson, Superintendent of Public Works, Village of Churchville	
	Fritz May, Mayor, Village of Fairport	
	Jason Helfer, Deputy Chief, Town of Greece Police Department	
	Chuck Marshall, Safety Officer, Town of Henrietta	
	Mike Lissow, Code Enforcement Officer/Fire Marshal, Village of Hilton	
	Mike McHenry, Superintendent, Village of Hilton	
	Gregory D. Merrick, Fire Marshal, Town of Irondequoit	
	John Moffitt, Town Supervisor, Town of Mendon	
	Chris Mears, Chief, Town of Ogden Police Department	
	Greg Seigfred, Fire Marshal, Town of Perinton	
	Kelly Cline, Fire Marshal, Town of Pittsford and Village of Pittsford	
	Deborah Campanella, Councilwoman, Town of Riga	
	Rick Tracy, Fire Marshal, Town of Rush	
	Gary Penders, Mayor, Village of Spencerport	
	Jackie Sullivan, Clerk, Village of Spencerport	
	Brian Ingraham, Highway Superintendent, Tow	yn of Sweden

PAGE 1 OF 4



MEETING NOTES

property protection, (3) natural resources protection, (4) emergency services, (5) structural projects, and (6) public information. To earn the maximum number of CRS points for the HMP, each jurisdiction should identify mitigation actions in as many of the six CRS categories as possible.

Mr. Subbio pointed out that actions included in each annex might reflect the need to solve a problem or address a problem area in the jurisdiction, even if the jurisdiction does not know the specific actions it will take. An example given was to study drainage issues at the intersection of two roads to determine the best action to reduce local flooding causing road closures.

Mr. Subbio then led the discussion of the six mitigation action categories, as follows:

- . Prevention This category may include updating the floodplain management ordinance to exceed the requirements of the National Flood Insurance Program (NFIP), treating trees against invasive species, establishing buffers around wildlands, imposing restrictions on the transportation of hazardous materials along certain roadways, requiring new power lines to be buried, and other such measures. Some jurisdictions have included these actions in their list of mitigation actions.
- Property Protection New York State and FEMA will expect actions related to acquiring, elevating, or retrofitting structures in the floodplain in each annex. The State also requires that each jurisdiction protect critical facilities to the 0.2% annual chance flood level, and have an action in the plan to protect any facilities that do not meet that criterion. Other property protection actions include protecting critical facilities against any hazard, working with power companies to bury existing power lines, and installing backup generators.

 Mr. Subbio pointed out that FEMA expects specific information in these actions, such as which facilities (by name) will have a generator installed, and which sections of power lines will be buried.
- Natural Resources Protection These actions include protecting a section of streambank from erosion, studying a waterway to determine the best location for protection measures to be implemented, and clearing
- Emergency Services Monroe County will include an action in its annex to enhance the Evacuation and Sheltering Plan to meet the State requirements for each jurisdiction to identify evacuation routes and shelters, and to document the adequacy of those shelters for use during an emergency. Mr. Swingly asked if each jurisdiction could refer to the American Red Cross for the shelter requirement, because the jurisdictions would call upon the American Red Cross for emergency shelters during an emergency. Mr. Platt asked the jurisdictions' representatives to help coordinate with local schools and other facilities to enter into agreements with the American Red Cross to vet those facilities as potential shelters, stating that it is much easier to open a shelter at a pre-identified and assessed facility than to use a facility that the American Red Cross has not evaluated.

Other emergency service actions include developing a flood warning and response plan, working with power companies to prioritize roadways to be cleared following an event that downs power lines, upgrading communications equipment, recruiting volunteers, and fraining responders. Mr. Subbio pointed out that such actions should go above and beyond the normal training activities carried out by a response organization to expand the organization's capabilities.



MEETING NOTES

Structural Projects – These projects include upgrading stormwater management infrastructure, designing
and building detention/retention basins, designing floodwalls and levees, and any other activity in which
physical structures are constructed. Each jurisdiction needs to be specific about the work to be done and
the location of the project. Specific culverts, bridges, sections of roadway, and other structural points need

Mr. Mears discussed an issue in the Town of Ogden in which former railroad culverts cause Manitou Road and Washington Street to flood, and pointed out that actions may require coordination among local, County, and possibly State (when dealing with State roads, for instance) agencies to carry them out. Mr. Slattery discussed the possibility of each jurisdiction establishing a drainage district wherein the jurisdiction could levy taxes or fees to be used for drainage problems, in the same way that a jurisdiction can charge fees for areas with streetlights to help pay the cost of the power used to light them.

The Village of Churchville wants to install a lift station with a floodwall to protect it.

 Public Information – These actions include conducting outreach to floodplain properties on the ways residents can protect their homes; developing a flood-specific page on the municipal websites; and linking from town/village/city websites to the County HMP, including mitigation information in a municipal newsletter. Mr. Subbio pointed out that each jurisdiction should have at least one public information action

Next Steps

The following next steps were identified during the meeting:

- Tetra Tech will work with jurisdiction representatives to complete the jurisdictional annexes.
- A public meeting to review the full mitigation strategy will be conducted on the evening of December 16, 2015.
- Tetra Tech will work with the County to develop the full draft of the HMP by the end of January 2016. The HMP will then enter the 30-day public comment period.
- Following the public comment period, Tetra Tech will make any required revisions and submit the plan to the State and FEMA for formal review.

With no further questions, Mr. Rion and Mr. Subbio thanked the attendees for their time. The meeting concluded at 10:00 a.m.

PAGE 4 OF 4

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1





Agenda

- Outreach
- Mitigation Actions Review

- Officials Involved in the Planning Process
- · Organizations Contacted sentations Delivered



Mitigation Actions Review

- HMP vs. CRS Program
- Education and Awar
 CRS Program
 Prevention (PR)
 Property Protection
 Natural Resources P
 Emergency Services
 Structural Projects (

Mitigation Actions Review

- Categories
- Problem Areas
 Along Black Creek or other waterway
 Particular roadways/intersections
 Particular culverts

Mitigation Actions Review

4



AGENDA

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting - Mitigation Strategy Review

Agenda

Wednesday, December 16, 2015 | 9:00 a.m. - 11:00 a.m.

1 Welcome

2. Outreach

3. Mitigation Actions Review a. HMP vs. CRS Program

- b. Categories
- Problem Areas
- d. Prevention Property Protection
- e. Property Protection f. Natural Resources Protection
- Emergency Services
- g. Emergency Service
 h. Structural Projects
- i. Public Information

- Next Steps
 a. Public Meeting Mitigation Strategy Review
 - b. Finalize Jurisdictional Annexes
 - Finalize the HMP
 - d. Next Planning Committee Meeting Draft HMP Review
 e. Public Review Period
 f. Submission to NYS DHSES and FEMA

5. Questions



(8)

(8)

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Mitigation Actions Review

- Property Protection

 Acquire, elevate, or retrofit structures in the floc
 Determine the most appropriate method for pro-cribited facilities within the O-Xi annual chance floodylain, and implement when funding becom-available

(8)

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Mitigation Actions Review

- Property Protection (Continued)

 - Conduct a drainage analysis

Mitigation Actions Review

Natural Resources Protection

- Protect a particular section of waterway against erosion
 Shudy a particular waterway to determine where erosio control, wetlands protection, etc., should be implement

Mitigation Actions Review Emergency Services

- - Develop a Flood Warning and Response Plan

Mitigation Actions Review

Emergency Services (Continued)

- Develop and implement a training program fo

Mitigation Actions Review

Structural Projects

4



Mitigation Actions Review

- Public Information

Next Steps

- Public Meeting Mitigation Strategy Review
- Eat, Drink, and Be Merry!
 Finalize Jurisdictional Anne
 Finalize the HMP
- · Next Planning Committee Meeting

 - January 25, 2016 9:00 11:00 a.m. Draft HMP Review

Next Steps

- Public Review Period
 Submission to NYS DHSES and FEMA

Questions?

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Happy Holidays!

High

Orgoing
(outreach and
specific project
identification);
Long-term DOF
(specific project
specific project
application and
implementation)

High

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TownVillage/ City Engineering (via NFIP FPA) with NYS DHSES, FEMA support

Flood, Severe Storm, Wildfire, Winter Storm

Existing

88

Contacts 7E tony subbings (717) 545-358

3

Estimated Cost Estimated Benefits Lead Objectives Met

evitatiin

Pris H

n program on natural hazard risks and what please identify SPECIFICALLY how your c ucation / mitigation information will include [examples follow...

- social media channels and e-mail blast systems.
- materials at Towr/Village/City

hall or distributing at regular civic meetings

- Including natural hazard risk and risk reduction information through is Posting of fiyers and other readily available NFIP informational mate Preparing, distributing, and analyzing public surveys.
- Developing/maintaining a natural hazard risk management webpage on the municipal website where information and mapping can be posted. Develop and implement an enhanced al-bazards, public outread mitigation and preparedness, including food insurance. This proyinenes is providing general natural hazard risk preparedness and c. Including nearral natural hazard risk enduction information.

 Posting of fiver's and other readily available NIPP information.

 Preparing, distributing, and analyzing public surveys.

 Enhancing public near-
- Enhancing public outreach to residents in NFIP floodplain areas to inform them of annual grant opportunities, which may include distributing periodic articles including handouts in the annual newsletter.

I	eet	I
Short	ing all new and nunity. Further m initiatives.	Ongoing
Municipal Budget; HMA programs with local or county match	its (e.g. regulat ch to the comm in subsequent	Municipal Budget
Low	nt requiremen urance outrea ons identified	Low- Medium
Medium	dplain manageme ping, and flood insi of compliance acti	Medium - High
TownVillage Supervisor's Office	forcement of floor fication and mapp 2-related continue	NFIP Floodplain Admiristrator (FPA) with support from
	doption and er codplain identi following NFIR	
All Hazards	NFIP including a rd flood areas), fluction of the flood areas and the flood areas are recorded to the flood of the flood o	Flood
NA	I-standing in the inspecial-haza standards and cr	New and Existing
See above.	Adminish conpliance with and good-standing in the NFP including adoption and enforcement of floodplain management requirements (e.g., regulating all new and abstantiably improve construction impossible hazard most procedule management to the community. Further meet audio recorded construction impossible hazard intologing the following NFP registed confined complaince adding the finished in subsequent initiatives.	See above.

High

High

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

ary ar s and prioritize feasible non-structural flood hazard mitigation alternatives for at-risk properties within the floodplain (including those that have been identified as we keep such as acquisition/risbcation, or elevation. The parameters for feasibility for this initiative would include the following funding, benefits versus costs, and stats attaining becomes available. Specifically identified are properties in the following areas:

mitgation option (in progress). don available funding from FEMA and local i

Phase 1: Identify appropriate candidates and determine Phase 2: Work with the property owners to implement se

Specifically identified are properties in the following areas:

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Estimated Benefits

Lead

Objectives

Applies to New and/or Existing Structures*

Mitigation Initiative

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

Please review the following suggested initiatives for inclusion into your mitigation strategy. At a minimum, we highly recommend that you include:

- An initiative identifying how your community will support efforts to mitigate vulnerable private property via elevation and/or acquisition.
- At least one public outreach/education initiative that outlines specific ways that you intend to expand or enhance your current outreach efforts.
- At least one initiative that addresses continued <u>and enhanced</u> participation in the NFIP, with <u>specific details</u> of those activities that will enhance your local NFIP program.
- An initiative identifying how the findings and recommendations of this Hazard Mitigation Plan can be applied to other related planning and regulatory programs within your municipality

If you choose to incorporate an initiative, please expand/customize it for your municipality, your way of operating, your capabilities, etc.

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

Prio rtty	E E	H PH	HgH	
Timeline	Short (DOF)	Short	Short (DOF)	
Sources of Funding	Municipal	Local Budget	Local Budget; Emergency Manageme nt grants as available	
Estimated Cost	Low	Low	Medium - High	
Estimated Benefits	Medium	Medium (improved understanding of flood risk areas)	High (reduced interruption of critical facilities and services; life safety)	
Lead	TownVillage/ City N°IP FPA	Engineering, Planning Board	Engineering and DPW	
Objectives Met				
Hazard(s) Mitigated	Flood	Flood, Wildfire	Severe Storm; Severe Winter Storm	Severe Storm; Severe Winter Storm
Applies to New and/or Existing Structures*	NA	New and Existing	Existing	Edisting
Mitigation Initiative	Designate a NRP Floodglain Administrator (PR), and other local officials who voted benefit. By soome a carefuled Roodglain Manager (CRI) through the Association of State Floodglain Managers (ASFN) and New York State Somwaker and New Hoodglain Managers Association (IN SSEM), and Duste of Roodglain Managers Association (IN SSEM), and Duste of Roodglain Managers Association (IN SSEM), and Duste of Roodglain Managers Association (IN SSEM), and Duste of Substantial Demage Estimation (SDE).	Develop and maintain mapping of all matural hazard risk areas in the TownVillagalCity, FEMA-delineated or otherwise, to support and use decision making (e.g. Planning Board, site plan review process.).	Install back-up power at the following critical facilities in the Town/Nilage/City: • ### • ###	Work with County and power companies to identify roads within the TownVillage/City considered "critical" would be the first priority for clearing after an event involving downed power lines.
# evitatini				

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Prilo rtty
5 6 6 6	Enhance or expand tree maintenance program (under contract with ####) and coordinate with utity companies.	Existing	Severe Storm; Severe Winter Storm		Engineering and DPW, working with contractors and local utilities	Medium – High (reduced risk of utility outages; life safety)	Medium	Local Budget Short	Short	Medi
2 8 S	Work with utility companies and developers to bury utility lines underground, wherever possible.				Engineering					
응물	Consider requiring underground utilities for any new development.	New and Existing	Severe Storm; Severe Winter Storm		working with local utilities	Medium – High (reduced utility outages)	Low	Local Budget Ongoing	Ongoing	High
\$ 5 \$	Work with Planning Board so that burying utilities is promoted in development plans.				developers					

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

Prio rity	(a P	High	High
Timeline	cifically: reach program) bcovery capabilities) rate property owner unty and local hazar	Short	Short
Sources of Funding	sction 9.1), spe ucation and ou essment and n stractivity of prin pport of the Co	Local (staff resources)	Municipal
Estimated Cost	bilities (see So tricin public ed tricisaster ass tigation interer gnition and su	Low- Medium (locally)	Low
Estimated Benefits	sk-reduction casa) k reduction/mitga agement, and pos of damage and mi federal-level reco	High (compre- hensive improvements, mitigation and risk-reduction capabilities)	Medium
Lead Agency	mitigation and ris personal scale ris ed floodplain man d understanding of to build state and	County, as supported by relevant local department leads,	Neip FPA and Town Village and Town Village Board, Willage Board, with support of NYSDEC for model ordinance
Objectives Met	al and regional wareness and ilities (enhance wners (improve mment (effort t	All Objectives	
Hazardis) Mitigated	inded to build loo fratural hazard a rrecovery capat ds of property ov all levels of gove this plan).	All Hazarcs	Flood
Applies to New and/or Existing Structures*	ed initiatives inte atural disasters (nent and disaste of mitgation nee stiatives through	New and Existing	New and Existing
Mitigation Initiative	Support and participate in county-led initiatives interded to build local and regional mitigation and risk-reduction carabilities (see Section 9.1), specifically: • Milgation education for natural disasters (ratural hazard awareness and personal scale risk reduction/mitigation public education and outcach program) • Lucial foodplain management and disaster recovery capabilities (enhanced floodplain management, and post-disaster assessment and recovery capabilities) • Jurisdictional knowledge of mitigation needs of property owners (improved understanding of damage and mitigation interestilactivity of private property owners) • Alignment of mitigation intaitives through all levels of government (effort to build state and federal-level recognition and support of the County and local hazard mitigation planning strategies identified in this plan).	See above	Begin the process to promote or adopt higher regulatory and adopt higher regulatory and according statements to manage froot hazard sike; specificatify through locative the first prediction or adjustment variances in cases where appeals are directly fade to compliance with the intent of floodpain regulators (e.g. overall method walloway). Problek fill in the floodpain or Develop and adopt a contralative substantial damage and adopts and and additing and additing and additing and additing and a
# eviltiative #			

GENERAL MITIGATION STRATEGIES FOR CONSIDERATION BY ALL PARTICIPANTS

Prio	pue		흈	Ę
Timeline	t property damage,	inted. for identified by the	Short	Short (year 1)
Sources of Funding	e need to repor	ations as warra eported to and	Municipal Budget	Municipal Budget
Estimated Cost	y owners of th	nage determin ises, etc.) as r	Low- Medium	Low
Estimated Benefits	s: to inform property	g substantial can age, economic los	Medium – High (iffe Safety, Increased efgibility for mitigation grant funding)	Medium - High
Lead Agency	ollowing elements Initiatives above)	ssments, includir ce, property dam	Engineering (Town/Village /City NFIP /FCHX; Town/Village Supervisor's Office	TownVillage/ City NFIP FPA, as fully supported by local government officials
Objectives Met	including the found in Awareness	t damage asse s (loss of servi		
Hazard(s) Mitigated	ssment program, ublic Education a irs, if necessary.	onduct post-ever atabase) of losse cess).	Flood; Severe Storm; Severe Winter Storm	Flood
Applies to New and/or Existing Structures*	nt damage asse ducation (see P en making repa	al resources to c system and/or d ilding permit pro	Existing	N/A
Mitigation Initiative	Develop and implement a post-event damage assessment program, including the following elements: • Conduct public outreach/education (see Public Education and Awareness Initiatives above) to inform proprity owners of the need to report property damage, and obtain required permits when making repairs, if repossary.	 Develop and organize local resources to conduct post-event damage assessments, including substantial camage determinations as warranted. Develop and organize local resources to conduct post-event damage assessments, including substantial constructions as warranted. Town/Misgac(D₁) (e.g. building permit process). 	See above.	Support participation in the NFIP Community Rating System (CRS) workshoop is if effected CRS workshoop is fettered within the county. John the CRS workshoop is support host tem participation can be edicitated. See following maked Community Assistance Vist (CAX) Initiative.
# evitsitinl				



MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Mitigation Strategy Review

SIGN-IN

pay, subbinetehnolina 217-545-3580 223-0720 William. Aatt Okolerus.or 545-753-7523 dock charaleld; 8896111 6540219 241-447B provess (dayle highware 753-303 x3816 PHONE VILLES OF FAICHT Phrography con of seightle dkester@nysts MON GECOUNTY CON Sousemenderand NICHELLENES O Frime E-MAIL Wednesday, December 16, 2015 | 9:00 a.m. - 11:00 a.m. Having Courty O'Ger KGRTA/RTS Mouroecounty Red Gass Tar - Perith AGENCY/ORGANIZATION Ton a of chilir Teta tech MCOEM ASSOCIATE ENGINER MCDES DISASTER SPECIMIS Eweyen Reg. Mal Superner Office En Rog Spec The second FRITZ MAY MAYOR Salah CIO TILE E William Platt In Stra Bugherty Dave Kester Jenifar Kusse MICHELLEVER Grey Serpho Tony Sulbis Greek P. Down Forth

Page 3 of 4

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MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Mitigation Strategy Review

Wednesday, December 16, 2015 | 9:00 a.m. - 11:00 a.m.

SIGN-IN

NAME	TILLE	AGENCY/ORGANIZATION	E-MAIL	PHONE
JOHN MUFFOR SUNDOSVICE	Jour Supposition	TRUM OF MELDIN SHOUTH COUNT 624-	STADERS - JOHN	1900/
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JASON HEIRE	DeputyChitch	Inson Helke DeputyCHICH GREECE PLICE THEHEROGERGIENY (2)	THE HEROGERE	Sections (20)
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MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Mitigation Strategy Review

SIGN-IN

Wednesday, December 16, 2015 | 9:00 a.m. - 11:00 a.m.

NAME	TITLE	AGENCY/ORGANIZATION	E-MAIL	PHONE
Mark Leveryniki	Em Teca	Meden	PLEASTAIRT Charles County, 60 V	5 P. 2 781-3872
Michael Slatters		MCOBO	Madhey Dinnancondy gu 783. 7734	753.7734
Ray Rebursan	And Reburson Sept of Public with	village of churchywi	paul @ chuedrulle not	746-8025 nt
Gregory D. Merrick Fire Morshall	Fire Morshad	Tour of Irond equest	gmerriche irondequest. org	7. org
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Gary Penders	Mayor	Spancerpers	gounders Quil.	944-4723
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MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Mitigation Strategy Review Wednesday, December 16, 2015 | 9:00 a.m. - 11:00 a.m.

SIGN-IN

NAME	TITLE	AGENCY/ORGANIZATION	E-MAIL	PHONE
Rick Town	Fra Mynistral	Town or Rush	11-Ketambrish 533-1312	533-1312
Kuly Cline	Fire marshal	Town/village RHSEND	KCIINECELMOFRASED OVS-	0.0rg
(als 3. 3 An.	Chiet	Loc Airpant	+ 60 La Quine - 900 303-7114	303-7114
CHEUS MÖDRAS	Const	OKLOÓN PO	CMERIES @ CLOSTING 617-6131	617-6131
mila Vergori	Fine Marshal	Tour of Smeden	Michael V @ tomoff. 04 739-7667	1991-1667
Time Carson	Time Curson operations Hammed 911	116	Kursan Hontectors Ludery	279-1144
ELE Chamerman Sa. Pablic Horlin Son.	Se. Public Health, Son.	Health	Elmonermondo 185-5058	153-5058
Brian Investan	Highway supprovedestat	Brian Instead an Historica screenistist Town of Sweden	briani Perunssueden 330-7879	330-7879
Robin finnethy Economic occinoment	Convenic Development	4		753-2037
mike Lissow	(E) Fire mikh.1	mike Lissow (CED) Fire midel village of 1/11/tha	Mike Ch. Hanny Sc 352. 4144	252 - 41144



For Immediate Release Monday, December 14, 2015

MONROE COUNTY TO HOST PUBLIC MEETING ON HAZARD MITIGATION PLAN

Monroe County's Office of Emergency Management will host a public meeting for its Hazard Mitigation Plan (HMP) on Wednesday, December 16th, 2015 from 6:00-7:30 p.m. at the Monroe County Office of Emergency Management located at 1190 Scottsville

The County has begun updating its HMP which documents the County's vulnerability to hazards and its strategy to reduce vulnerability.

For more information contact Frederick J. Rion, Jr., Emergency Preparedness Administrator, at 753-3810 or visit www.monroecountyhmp.com.

###

Media Inquiries, contact: Department of Communications at 753-1080



AGENDA

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Mitigation Strategy Review Public Meeting Agenda

Wednesday, December 16, 2015 | 6:00 p.m. - 7:30 p.m.

- 1. Welcome
- 2. Review Goals and Objectives
- 3. Review Mitigation Actions
 - HMP vs. CRS Program Problem Areas
 - Prevention
 - Property Protection
 - Natural Resources Protection
 - Emergency Services Structural Projects
 - Public Information
- 4. Next Steps
 - Planning Committee Meeting Draft Review
 - i. January 25, 2016 ii. 9:00-11:00 a.m.
 - Public Meeting Draft Review
 i. March 2016
- 5. Questions



MEETING NOTES

Meeting	Monroe County Hazard Mitigation Plan (HMP) Meeting	Mitigatio	n Strategy Review Public
Date	December 16, 2015	Time	6:00 p.m 6:15 p.m.
Location	Monroe County Office of Emergency Management (MCOEM), Rochester, New York		
Attendees	Frederick Rion, MCOEM		
Attendees	Tony Subbio, Tetra Tech, Inc. (Tetra Tech)		

The purpose of this public meeting was to review the mitigation strategy of the updated HMP with the general public, and to solicit input on the goals, objectives, and actions in the plan.

Discussion Points

Although public notice of the meeting was distributed via (1) e-mail invitations sent to the towns, villages, and other stakeholder groups associated with Monroe County; (2) advertisements broadcast throughout the community; and (3) the MCOEM's Facebook page, no county residents attended the meeting. Mr. Rion and Mr. Subbio waited until 6:15 p.m. for any potential latecomers, but no residents arrived to attend the meeting.

Mr. Rion and other Planning Committee members will promote the project website, which will contain information about the HMP and the planning process.







Review Goals and Objectives 17 Objectives 0

HMP • Local Plans and Regulations (LPR) • Structure and Infrastructure Projects (SIP)	
 Natural Systems Protection (NSP) 	
 Education and Awareness Programs (EAP) 	
CRS Program	
Prevention (PR)	
 Property Protection (PP) 	
 Natural Resources Protection (NRP) 	
 Emergency Services (ES) 	
 Structural Projects (SP) 	
Public Information (PI)	

Mitigation Actions Review	
Problem Areas	
- Along Black Creek or other unterways	
 Particular roadways/intersections 	
- Particular culverts	
- Subdivisions	
- Railroad crossings	
	(3)
	die





Mitigation Actions Review

- Property Protection

Mitigation Actions Review

- Property Protection (Continued)

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Mitigation Actions Review

- Natural Resources Protection

Mitigation Actions Review

- Emergency Services

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- Mitigation Actions Review Emergency Services (Continued)

Mitigation Actions Review

- Structural Projects





Mitigation Actions Review

- Public Information

Next Steps

- Planning Committee Meeting Draft Review
- Public Meeting Draft Review



Questions?

Thank you for your time!



(8)

(8)



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Goals and Objectives

Goal 1: Coordinate hazard mitigation programs that affect the county

- Objective 1.1: Develop and maintain multi-jurisdictional coordination efforts related to hazard mitigation
- Objective 1.2: Develop and maintain partnerships with external federal, state, municipal, and stakeholder agencies that have a role in hazard mitigation
- Objective 1.3: Track and/or recommend local, county, state, and federal legislation and regulations related to hazard mitigation

Goal 2: Prevent hazards from impacting life, property, and the environment

- Objective 2.1: Develop and maintain local regulations that reduce vulnerability to hazards
- Objective 2.2: Develop and maintain local plans that reduce vulnerability to hazards
- Objective 2.3: Improve the county's stormwater management systems

Goal 3: Protect life, property, and the environment from hazard impacts

- Objective 3.1: Encourage homeowners, renters, and businesses to insure their properties against all hazards, including flood coverage under the National Flood Insurance Program
- Objective 3.2: Acquire, relocate, elevate, and/or retrofit existing structures located in hazard areas
- Objective 3.3: Acquire, relocate, elevate, and/or retrofit repetitive loss properties from floodprone areas
- Objective 3.4: Encourage local participation in the Community Rating System (CRS) Program
- Objective 3.5: Maintain emergency response capability

Goal 4: Increase public awareness of hazards, their impacts, and ways to reduce vulnerability Objective 4.1: Improve public alert, warning, and communications systems by promoting

- redundant and multi-faceted communications methods Objective 4.2: Conduct a coordinated public information program related to hazards and their
- impacts throughout the county
- Objective 4.3: Encourage residents to implement hazard mitigation and preparedness measures on
- Objective 4.4: Promote personal and family preparedness

Goal 5: Protect, preserve, and restore the functions of natural systems

- Objective 5.1: Encourage the use of green and natural infrastructure
- Objective 5.2: Coordinate with local, county, state, federal, international, and other stakeholder agencies to maintain natural systems, including wetlands, parks, and riverine and coastal areas

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MEETING NOTES

3

Meeting	Monroe County Hazard Mitigation Plan (HMP)	Steering	Committee Meeting	
Date	February 1, 2016	Time	9:00 – 9:50 a.m.	
Location	Monroe County Office of Emergency Manager	nent, Ro	chester, NY	
	COEM			
	Fred Rion, Emergency Preparedness Administrator, MCOEM Kristina Daugherty, Emergency Management (EM) Program Specialist, MCOEM			
Attendees	Justin Cole, Senior GIS Analyst, Monroe County Geographic Information System (
Attendees	Tom Goodwin, Planning Manager, Monroe Co	unty Dep	artment of Planning	
	Mark Noll, PhD, State University of New York	(SUNY) -	- Brockport	
	Tony Subbio, Tetra Tech, Inc. (Tetra Tech) (vi	a telepho	ne)	

The purpose of the Steering Committee meeting was to review progress on the Hazard Mitigation Plan (HMP) update; examine the participation status of the County's municipalities and stakeholders; and discuss options for maximizing participation.

Discussion Points

This section summarizes each discussion point addressed during the Steering Committee meeting.

Mr. Rion summarized the outreach efforts he conducted over the last month. Mr. Rion discussed the HMP during the meeting of the Monroe County Local Emergency Planning Committee (LEPC) on January 13, 2016, during a training portion of the Bakken Crude Oil tabletop exercise on January 25, 2016, and to a community group on January 26,

Mr. Goodwin stated that the County's planning board is beginning to update the Capital Improvement Plan (CIP), and will be meeting regularly. Mr. Subbio encouraged Mr. Goodwin to review the jurisdictional annexes for projects to include in the updated CIP.

Review Status of Worksheet Completion

Mr. Subbio reviewed the Worksheet Completion Status handout with the group. The handout shows the worksheets completed by each municipality

Review Planning Participation/Non-participating Jurisdictions

Mr. Rion stated that his office will conduct one more round of outreach to jurisdictions that still need to provide information, and that the HMP needs to reflect participation by all of the County's jurisdictions. Mr. Subbio reported that every jurisdiction has participated to some degree (for instance, either attended a meeting or provided information) to meet the participation requirements of the Disaster Mitigation Act of 2000, but not all jurisdictions have done everything they need to in order to meet those requirements

Dr. Noll led a discussion of the possibility of having student interns from SUNY-Brockport reach out to jurisdictions to complete their participation requirements. There would be a nominal fee for each jurisdiction that works with an



MEETING NOTES

AGENDA

intern. The committee agreed that if jurisdictions still do not participate after being offered an intern to help complete their requirements, the County has conducted its due diligence to ensure 100% participation in the planning process.

The final public meeting to review the draft plan will be scheduled after outreach by the students is completed. The updated HMP needs to be approved by the County Legislature in October 2016 to ensure that the plan is approved before the existing version expires. Mr. Subbio stated that the plan would have to be submitted to the state and Federal Emergency Management Agency (FEMA) for formal review no later than mid-April 2016 to meet that

Next Steps

The following next steps were identified during the meeting:

- The next Planning Committee meeting will be held from 9:00 a.m. to 11:00 a.m. on February 2, 2016.
 Tetra Tech, Monroe County, and students from SUNY-Brockport will work with the jurisdictions to complete
- The public review period will be announced, and the public draft review meeting will be scheduled at a later

With no further questions, Mr. Subbio and Mr. Rion thanked attendees for their time. The meeting concluded at 9:50

PAGE 2 OF 2

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Steering Committee Meeting Agenda

Monday, February 1, 2016 | 9:00 - 11:00 a.m.

- 1. Welcome
- 2. Outreach
- 3. Status of Worksheet Completion
- 4. Planning Participation
- 5. Non-participating Jurisdictions
- 6. Schedule
- 7. Next Steps
 a. Next Planning Committee Meeting
 - i. Review Draft ii. February 2, 2016

 - b. Public Review Period
 c. Public Draft Review Meeting March 2016
 - d. Finalize Jurisdictional Annexes

 - Finishing Touches
 Submit to NYS DHSES and FEMA
- 8. Questions and Concerns



Monroe County Hazard Mitigation Plan Update - Worksheet Completion Status

The following table shows the worksheets that have been submitted by each jurisdiction, as of January 22, 2016.

	Norksheet 1 - Events and Losses	Norksheet 2 - Cap. Assessment	Norksheet 3 - NFIP FPA	Norksheet 4 - Past Action Progress	Morksheet 5 - Plan Integration	Norksheet 6 - New Development	Norksheet 7 - Hazards of Concern	Other data or information provided
Monroe County	Х	Х		X			X	
Town of Brighton	Х	Х	Х	Х	Х	Х	Х	CEMP and Stormwater Plan
Village of Brockport	Х	Х	Х	Х	Х	Х	Х	
Town of Chili	Х	Х	Х	X	Х	Х	X	Additional documentation for Worksheets #1 and #7
Village of Churchville	X	Х	X	X	X	X	X	
Town of Clarkson	Х	Х	Х	Х	X	Х	X	
Town/Village of East Rochester								
Village of Fairport	Х	Х	Х	Х	X	X	Х	
Town of Gates	Х	Х	Х	Х	Х	Х	Х	
Town of Greece	Х	Х	Х	Х	Х	Х	Х	
Town of Hamlin	Х	Х	Х	Х	Х	Х	Х	
Town of Henrietta	Х	Х	Х	Х	Х	Х	Х	
Village of Hilton	Х	Х	Х		Х	Х	X	
Village of Honeoye Falls	Х	Х	Х	Х	X	Х	X	
Town of Irondequoit	Х	Х	Х	Х	Х	Х	Х	
Town of Mendon								
Town of Ogden								
Town of Parma				Х	Х	Х		
Town of Penfield	Х	Х	Х	Х	Х	Х	Х	
Town of Perinton	Х	Х	Х	Х	Х	Х	Х	
Town of Pittsford	Х	Х	Х	X	Х	Х	Х	
Village of Pittsford	Х	Х	Х	Х	Х	Х	Х	
Town of Riga	Х	Х	Х	Х	Х	Х	Х	Comprehensive Plan
City of Rochester	Х	Х	Х	Х	х	Х	Х	Heat Sweep Plan, Cool Sweep Plan

	Worksheet 1 - Events and Losses	Worksheet 2 - Cap. Assessment	Worksheet 3 - NFIP FPA	Worksheet 4 - Past Action Progress	Worksheet 5 - Plan Integration	Worksheet 6 - New Development	Worksheet 7 - Hazards of Concern	Other data or information provided
Town of Rush								
Village of Scottsville								
Village of Spencerport	Х	Х	X	X	X	X	Х	
Town of Sweden								
Town of Webster								
Village of Webster	Х	Х	Х	Х	Х	Х	Х	Past Action Worksheets
Town of Wheatland	Х	Х	Х	Х	Х	Х	Х	

The following table shows the jurisdictions that have participated in the project, as of January 22, 2016. Monroe County Hazard Mitigation Plan Update – Participation Status

PC Vuln. Assess.

				Attende	Attended Meetings				
Jurisdiction	PC Kickoff 07/29/15	Muni. Mtgs. Aug. 2015	PC Hazard Profiles 08/26/15	PC Vuln. Assess. 09/23/15	PC Vuln. Assess., G&O 10/20/15*	Mit. Sol. Wkshps. 11/19/15	Annex Wkshps. Dec. 2015	PCMit. Strat. 12/16/15	# of Partic.
American Red Cross	×		×	×	×	×		×	8
Brighton Fire	×								1
FEMA Region II						×			2
Frontier			×						2
Greater Rochester International Airport	×				×			×	2
Iberdrola			×	×					1
Monroe County Community College, Agricultural and Life Sciences Institute		×		×					1
National Grid	×		×						2
Rochester Institute of Technology	×		×	×	×	×			m
Rochester Water Bureau			×						1
Rochester-Genesee Regional Transportation Authority	×			×	×	×		×	1
SUNY-Brockport									1
Time Warner Cable	×								1
						Total # of S	takeholder	Total # of Stakeholder Participants	21

TOTAL # OF PARTICIPANTS IN THE PLANNING PROCESS: 153

Monroe County HMP Update – Participation Status As of 01/22/16

Monroe County HMP Update – Participation Status As of 01/22/16

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Mit. Sol. Wkshps. 11/19/15

Meetings
PC
Vuln.
Assess.,
G&O
10/20/15*

PC Vuln. Assess. 09/23/15

Muni. Mtgs. Aug. 2015

PC Kickoff 07/29/15

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MEETING NOTES

One municipal participant represents both the Town and Village of Pittsford.

Meeting	Monroe County Hazard Mitigation Plan (HMP) Planning Committee Meeting						
Date	February 2, 2016 Time 9:00 a.m. – 10:10 a.m.						
Location	Monroe County Office of Emergency Management (MCOEM), Rochester, New York						
	Fred Rion, Emergency Preparedness Administrator, MCOEM						
	Kristina Daugherty, Emergency Management (EM) Program Specialist, MCOEM						
	Tina Carson, Operations Manager, Monroe County 9-1-1						
	Michelle Virts, Associate Engineer, Monroe County Department of Environmental Services (MC DES)						
	Michael Burkets, GIS Analyst, MC DES						
	Justin Cole, Senior GIS Analyst, Monroe County Geographic Information System (GIS)						
	Rodney Corry, Chief, Monroe County Office of Mental Health (MCOHM)						
	Sarah Moravan, MH Program Analyst, MCOMH						
	Robin Finnerty, Economic Development Assistant, Monroe County Department of Planning and Development						
	Kathy Carelock, Epidemiology Manager, Monroe County Department of Public Health (DPH)						
	Michael Slattery, Monroe County Department of Transportation (MCDOT) Brad Smith, Monroe County Water Authority						
	Chad Roscoe, Engineer, Town of Brighton						
	Dawn Forte, Supervisor's Office, Town of Chili						
Attendees	Nancy Steedman, Mayor, Village of Churchville						
	Paul Robinson, Superintendent of Public Works, Village of Churchville						
	Fritz May, Mayor, Village of Fairport						
	Jared Rene, Sergeant, Town of Greece Police Department						
	Thomas Maier, Fire Marshal, Town of Hamlin						
	Mike Lissow, Code Enforcement Officer/Fire Marshal, Village of Hilton						
	Gregory D. Merrick, Fire Marshal, Town of Irondequoit						
	Gregory D. Merrick, Fire Marshal, Town of Irondequoit Mike Barker, Supervisor, Town of Perinton						
	Greg Seigfred, Fire Marshal, Town of Perinton						
	Kelly Cline, Fire Marshal, Town of Pittsford and Village of Pittsford						
	Deborah Campanella, Councilwoman, Town of Riga						
	Richard Tracy, Fire Marshal, Town of Rush						
	Gary Penders, Mayor, Village of Spencerport						
	Jackie Sullivan, Clerk, Village of Spencerport						
	Will Barham, Building Inspector, Village of Webster						
	Jake Swingly, Superintendent of Public Works, Village of Webster						

X X X X Total # of Municipal Participants

Monroe County HMP Update – Participation Status As of 01/22/16



MEETING NOTES

Meeting	Monroe County Hazard Mitigation Plan (HMP) Planning	Commit	tee Meeting			
Date	February 2, 2016	Time	9:00 a.m. – 10:10 a.m.			
	Jay Coates, Fire Marshal, Town of Wheatland					
	William Platt, Disaster Specialist, American Red Cross					
Attendees	Dave Kester, Safety, Rochester Genesee Regional Transportation Authority Regional Transit Service					
(continued)	Lynn Daley, Director, Rochester Institute of Technology	(RIT)				
	Mark Noll, State University of New York (SUNY)-Brockp	oort				
	Tony Subbio, Project Manager, Tetra Tech, Inc. (Tetra	Tech)				

The purpose of the Planning Committee meeting was to discuss the completed draft of the updated HMP.

Discussion Points

Discussion points addressed during the Planning Committee meeting are summarized below

Mr. Rion discussed three presentations he gave in the previous month regarding the HMP update to a community group, the Monroe County Local Emergency Planning Committee (LEPC), and attendees of a tabletop exercise that the County conducted. Mr. May reported that information on the HMP was shared at the Village of Fairport's meeting

No other outreach activities have been conducted.

Draft Plan Review

Mr. Subbio led a discussion of the sections of the HMP. These sections are available on the project website.

- Section 1: Introduction describes mitigation planning, identifies the participating jurisdictions, and provides an overview of the HMP.
- Section 2: Plan Adoption describes the plan adoption process
- Section 3: Planning Process identifies the participants of the planning process, describes the planning activities undertaken during the HMP update process, and describes how the planning process will continue after the draft is approved.
- Section 4: County Profile describes the history of the County, its physical features, the population and demographics, building stock, land use and trends, and critical facilities.
- Section 5: Risk Assessment identifies the hazards of concern, describes how each hazard is prioritized based on the level of risk it poses to the County and its jurisdictions, and includes full profiles of each hazard
- Section 6: Mitigation Strategies describes past accomplishments in implementing hazard mitigation initiatives throughout the County; lists the hazard mitigation goals and objectives; describes the federal State, County, and local capabilities that can be leveraged to reduce vulnerability to hazards; and describes

DACE 2 OF 2



MEETING NOTES

how mitigation actions were identified, evaluated, and prioritized by each jurisdiction. Mr. Subbio pointed out that the prioritization of actions considers benefits versus cost.

- Section 7: Plan Maintenance identifies Mr. Rion as the HMP Coordinator and describes his responsibilities. It also identifies members of the Planning Committee that will maintain the plan over the next 5 years, and describes how the plan will be monitored, evaluated, and updated. This section also describes how the HMP is integrated into other planning mechanisms and vice versa.
- Section 8: Planning Partnership lists the participating jurisdictions and introduces the content of the jurisdictional annexes.
- Section 9: Jurisdictional Annexes contains an annex for each participating jurisdiction. Each annex identifies the primary and alternate point of contact for the jurisdiction, describes the jurisdiction, assesses the risk posed to the jurisdiction by the hazards of concern, describes how the National Flood Insurance Program (NFIP) is implemented in the jurisdiction, identifies critical facilities, describes the jurisdiction's capabilities to implement hazard mitigation, lists the status of all mitigation actions in the 2011 version of the HMP, identifies the actions that the jurisdiction included in the HMP update, and prioritizes those actions.

Mr. Rion discussed the jurisdictions that need to provide more information to complete their annexes. He discussed a planned partnership with SUNY-Brockport in which student interns will assist those jurisdictions in gathering the required information and providing it to the County and Tetra Tech for inclusion in the updated HMP.

Community Rating System

Mr. Subbio reiterated the benefits of joining the Community Rating System (CRS) Program. He discussed the CRS points that are available to jurisdictions through the State Uniform Minimum Credit, and the additional CRS points that a jurisdiction is eligible to earn for State programs if it can demonstrate enforcement of certain regulations. He pointed out that the HMP was updated in accordance with the CRS Program requirements for "Floodplain Management Plans," and that each participating jurisdiction could earn 250-300 CRS points from the HMP. He ssed a CRS project that Tetra Tech is conducting for Dauphin County, Pennsylvania, and pointed out that most of the municipalities in Dauphin County would earn a Class 8 rating (a 10% premium discount for policyholders in the floodplain) based almost entirely on their floodplain management and stormwater management ordinances. Monroe County's municipalities may be in a similar position.

He then discussed the handout that listed estimates of potential savings that policyholders in each jurisdiction would see at different class ratings. Mr. Subbio encouraged all jurisdictions to consider joining the CRS Program.

The following next steps were identified during the meeting:

- . The County OEM will work with SUNY-Brockport to arrange for student interns to work with jurisdictions.
- The public review period and date of the public draft review meeting will be announced at a later date. Tetra Tech will work with jurisdiction representatives to complete the jurisdictional annexes.
- Following the public comment period, Tetra Tech will make any required revisions and submit the plan to the State and Federal Emergency Management Agency (FEMA) for formal review.

With no further questions, Mr. Rion and Mr. Subbio thanked the attendees for their time. The meeting concluded at 10:10 a.m.

PAGE 3 OF 3



AGENDA

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting - Draft Plan Review

Agenda

Tuesday, February 2, 2016 | 9:00 a.m. - 11:00 a.m.

1. Welcome

2 Outreach

- 3. Draft Plan Review Section 1: Introduction
 - Section 2: Plan Adoption b.
 - Section 3: Planning Process Section 4: County Profile
 - Section 5: Risk Assessment
 - Section 6: Mitigation Strategies Section 7: Plan Maintenance
 - g. h.
 - Section 8: Planning Partnership
 - Section 9: Jurisdictional Annexes

4. Community Rating System

- b. Discounts

5. Next Steps a Public Review Period

- Public Draft Review Meeting
- Finalize Jurisdictional Annexes
- Finishing Touches
 Submit to NYS DHSES and FEMA
- Adoption
- 6. Questions





Agenda

- Outreach
- Draft Plan Revie

- Question



Draft Plan Review

- Section 1: Introduction
- Section 3: Planning Pro



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Draft Plan Review

- Section 4: County Profil

- tion 5: Risk Ass

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Draft Plan Review Section 6: Mitigation Strategies



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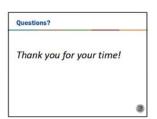














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New York UMC

CRS UNIFORM MINIMUM CREDIT NEW YORK

SUMMARY

The Community Rating System (CRS) provides Uniform Minimum Credit (UMC) for certain state laws, regulations, and standards that support floodplain management and have proven effective in reducing flood damage.

The following table summarizes UMC credit available to all communities. It also includes possible additional credit available for selected areas or state activities. Insurance Services Office (ISO)/CRS Specialists and the communities need to determine which possible additional credits apply to their area. These UMCs do not necessarily apply to Tribal Nations.

The range of credit available to communities within the state is shown below, followed by an explanation of each activity. The credit is based on the 2013 CRS Coordinator's Manual.

Activity	Element	Credit
	nimum Credit	the distribution
340	Other Disclosure Requirements (ODR)	15
450	Erosion and Sedimentation Control (ESC)	10
450	Water Quality Regulations (WQ)	20
	Total	45
Possible A	dditional Credit	
430	Building Codes (BC)	48
430	Local Drainage Protection (LDP)	10
430	State-mandated Standards (SMS)	13.3 - 20
430	Freeboard (FRB)	7.5 - 375
450	Stormwater Management Regulation (SMR)	29.9 - 219
630	State Dam Safety (SDS)	0 - 30
	Total	100 7 702

Credit for activities in the 400 series can increase based on the Community Growth Adjustment. The CRS requires participating communities to maintain elevation certificates, which provide an additional 38 points. Five hundred points are needed for Class 9.



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Contacts

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New York UMC

UNIFORM MINIMUM CREDIT

Activity 340. Flood Hazard Disclosure

Other Disclosure Requirements (ODR) – 15 points are awarded for the requirement that sellers disclose whether a property is located in a designated floodplain or designated wetland area and has flooding problems.

Legal basis: New York Property Condition Disclosure Act, New York Real Property Law 462(2) contained in Consolidated Laws, Real Property, Article 14 at https://duente.nu.us/Law8-BROWSER-EXPLORER+&TOKEN-07391939+&TARGET-VIEW.

Annual UMC verification: ISO/CRS Specialists will verify that the regulations are still in effect.

Activity 450. Stormwater Management

Erosion and Sediment Control Regulation (ESC) - 10 points are awarded for the requirement for developers to develop an Erosion and Sediment Control Plan for all land disturbances of one acre or more.

Legal basis: The New York State Stormwater Design Manual. and the New York Standards and Specifications for Erosion and Sediment Control. The Manual is at http://www.dec.nv.gov/chemical/29065.html. The standards are at http://www.dec.nv.gov/chemical/29066.html.

Verification: ISO/CRS Specialists will verify credit by reviewing permits and erosion control plans.

Annual UMC verification: ISO/CRS Specialists will verify that the requirement remains in effect.

Water Quality Regulations (WQ): 20 points are awarded for the requirement for developers to develop a stormwater pollution prevention plan (SWPPP) and obtain a State Pollutant Discharge Elimination System ("SPDES") General Permit for a project which disturbs five acres or more.

Legal basis: The New York State Stormwater Design Manual at http://www.dec.nv.gov/chemical/29072.html.

Verification: ISO/CRS Specialists will verify credit by reviewing the local ordinance and permit records to ensure best management practices for water quality are being implemented and enforced.

New York Uniform Minimum Credits 1 August 2014 New York Uniform Minimum Credits 2 August 2014



Annual UMC verification: ISO/CRS Specialists will verify that the regulations are still in effect.

New York Uniform Minimum Credits 3 August 2014



New York UMC

Structures are broken into four categories. Two feet of freeboard is required for Categories III and IV, one foot for Category II, and none for Category I which only includes agricultural facilities, certain temporary structures and minor storage facilities.

Legal basis: New York State Residential Code addresses freeboard in Chapter 3 - Building and Planning, Section R324.1.3.3 at http://publicecodes.citation.com/st/ny/st/index.htm

Verification: The CRS Specialist will verify credit by reviewing elevation certificates, permits, site plans and similar documents for new developments in the regulatory floodplain.

Annual UMC verification: ISO/CRS Specialists will verify that the regulations are still in effect, meet CRS standards, and are being enforced.

 $\label{eq:State-mandated Standards (SMS)} - 13.3 \ \ to \ 20 \ points \ may \ be awarded for state-mandated regulatory standards. Credit equals 0.10 times the sum of credit points for floodplain management regulatory standards. Total SMS is limited to 20 points.$

Activity	Element	Credit
430	Building Codes (BC)	48
430	Local Drainage Protection (LDP)	10
430	Freeboard (FRB)	75 - 375
	Total	133 - 433
	x 0.1	13.3 - 20

Source: Section 432.n of the CRS Coordinator's Manual.

Activity 450. Stormwater Management

Stormwater Management Regulation (SMR) - From 29.85 - 219 points are awarded for SMR based on requirements for all communities to manage new development of one acre or more (SZ = 60) and to prevent increases in peak flows from the 10- and 100-year storms (DS = 114). Additionally, LID is used as a first step to reducing runoff (LID = 25).

Legal basis: The New York State Stormwater Design Manual at http://www.dec.ny.gov/chemical/29072.html.

Verification: The community's ordinance provision and copies of drainage reports are needed to verify credit and will be provided to the technical reviewer for verification.

Annual UMC verification: The technical reviewer will verify that the requirement remains in effect.



New York UMC

POSSIBLE ADDITIONAL CREDIT

Some state standards are eligible for CRS credit, but may not be in effect in every community. These standards are addressed below. ISO/CRS Specialists and the communities need to determine whether they are creditable in their area.

Activity 430. Higher Regulatory Standards

Building Codes (BC) – Up to 48 points may be awarded for the New York State building codes, which is modeled after the 2006 edition of the International Building Code, Residential Code, Plumbing Code, Mechanical Code, and Fuel and Gas Code. The current New York State Building Code is the 2010 edition.

Legal basis: Exec. Law. Sections 370-383

Verification: ISO/CRS Specialists will verify that communities have adopted the relevant sections of the International Code Series, as described in the 2013 CRS Coordinator's Manual.

Annual UMC verification: ISO/CRS Specialists and BC Technical Reviewer will verify that the regulations are still in effect.

Local Drainage Protection (LDP) – 10 points may be awarded for requiring positive drainage away from the foundation. The IRC requires drainage away from all buildings, not just those in special hazard areas (IRC R401.3). IRC Chapter 18 has various requirements about foundation drainage, drainage for foundations, on or adjacent to slopes (Sec. 1808.7), but does not explicitly require lots to be graded to drain away. IBC Appendix J addresses drainage, but it is effective only if explicitly adopted.

Legal basis: IBC Chapter 18; IRC Chapter 4 (e.g. R 401.3 and R406).

Verified by: ISO/CRS Specialists will review permits, site plans, and similar documents that demonstrate enforcement.

Annual UMC verification: ISO/CRS Specialists will verify that the regulations still are in effect.

Freeboard (FRB) = 7.5 to 375 points may be given for regulations in the 2010 edition of the New York State Residential Building Code requiring that three feet of freeboard be added to the design flood elevation and mechanical equipment of residential buildings in the numbered A and V zones.

The 2010 edition, which is currently effective, refers to ASCE-24-05 which contains a freeboard requirement for all structures not covered by the residential building code.

New York Possible Additional Credit 4 August 2014



New York UMC

Activity 630. Dams

State Dam Safety (SDS) – Up to 30 points of credit for State Dam Safety Program activities based on the Dam Safety Program Management Tool. 15 points awarded for Risk Communication and Public Awareness and 15 points for Emergency Action Planning.

Verification: ISO/CRS Specialists will verify that the community is in compliance with the State Dam Safety Program. SDS credit is limited to communities that would be affected by a flood from the failure of a high-hazard-potential dam. This must be documented with a description and a map.

Annual UMC verification: The Federal Emergency Management Agency's Dam Safety Office annually verifies SDS credit.

MODEL ORDINANCE

New York has three model ordinances. The ordinances may contain additional creditable UMC provisions. The model ordinances are available from the state.

New York Possible Additional Credit 5 August 2014 New York Possible Additional Credit 6 August 2014

Monroe County - Estimated Community Rating System (CRS) Program Discounts on Flood Insurance

The following table presents National Flood Insurance Program (NFIP) policy statistics as of November 30, 2015 (the most current data available). It also shows the number of structures in the 1% annual chance floodplain (the Special Flood Hazard Area). The table reflects the estimated savings that NFIP policyholders from each jurisdiction will realize, if the jurisdiction participates in the CRS Program as a Class 9 or Class 8 community.

The estimated savings are based on the assumption that all of the NFIP policies in each jurisdiction are in effect on structures in the 1% annual chance floodplain. Where the number of policies exceeds the $number\ of\ structures\ in\ the\ 1\%\ annual\ chance\ floodplain,\ and\ NFIP\ policies\ are\ in\ effect,\ the\ analysis$ assumes that the excess policies are on structures in the 0.2% annual chance floodplain. Jurisdictions can contact the Federal Emergency Management Agency (FEMA) Region II to provide a "What If" analysis, which will show the actual savings at each CRS class, based on the actual policies in effect.

Jurisdiction	Policies	Annual Premiums	Average Annual Premium	Est. Class 9 Discount (5%) - Current	Est. Class 8 Discount (10%/5%)- Current	Structures in the 1% Floodplain
Town of Brighton	105	\$86,929	\$827.90	\$4,967	\$9,935	120
Village of Brockport	3	\$2,397	\$799.00	\$120	\$120	0
Town of Chili	180	\$184,820	\$1,026.78	\$19,149	\$38,299	373
Village of Churchville	7	\$4,182	\$597.43	\$478	\$956	16
Town of Clarkson	6	\$4,860	\$810.00	\$2,066	\$4,131	51
Town/Village of East Rochester	o	\$-	\$-	\$-	\$-	2
Village of Fairport	7	\$12,838	\$1,834.00	\$2,476	\$4,952	27
Town of Gates	322	\$416,688	\$1,294.06	\$50,663	\$101,325	783
Town of Greece	191	\$153,204	\$802.12	Already Pa	rticipates	348
Town of Hamlin	79	\$70,964	\$898.28	\$10,690	\$21,379	238
Town of Henrietta	178	\$287,063	\$1,612.71	\$18,466	\$36,931	229
Village of Hilton	23	\$33,303	\$1,447.96	\$1,665	\$3,186	21
Village of Honeoye Falls	19	\$21,505	\$1,131.84	\$2,207	\$4,414	39
Town of Irondequoit	259	\$130,144	\$502.49	\$6,507	\$10,376	154
Town of Mendon	19	\$23,562	\$1,240.11	\$5,642	\$11,285	91

Monroe County HMP Update – Estimated CRS Program Discounts on Flood Insurance

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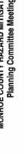
Jurisdiction	Policies	Annual Premiums	Average Annual Premium	Est. Class 9 Discount (5%) - Current	Est. Class 8 Discount (10%/5%)- Current	Structures in the 1% Floodplain
Town of Ogden	21	\$26,008	\$1,238.48	\$5,945	\$11,889	96
Town of Parma	102	\$100,666	\$986.92	\$15,643	\$31,285	317
Town of Penfield	106	\$141,284	\$1,332.87	\$8,730	\$17,461	131
Town of Perinton	55	\$51,473	\$935.87	\$5,054	\$10,107	108
Town of Pittsford	71	\$71,735	\$1,010.35	\$7,628	\$15,256	151
Village of Pittsford	3	\$2,265	\$755.00	\$113	\$113	0
Town of Riga	9	\$8,146	\$905.11	\$2,625	\$5,250	58
City of Rochester	86	\$132,289	\$1,538.24	\$6,614	\$10,306	48
Town of Rush	9	\$6,624	\$736.00	\$1,251	\$2,502	34
Village of Scottsville	17	\$14,233	\$837.24	\$1,088	\$2,177	26
Village of Spencerport	12	\$18,373	\$1,531.08	\$2,220	\$4,440	29
Town of Sweden	5	\$3,601	\$720.20	\$1,008	\$2,017	28
Town of Webster	72	\$73,702	\$1,023.64	\$11,721	\$23,441	229
Village of Webster	8	\$10,539	\$1,317.38	\$527	\$527	0
Town of Wheatland	18	\$9,575	\$531.94	\$984	\$1,968	37

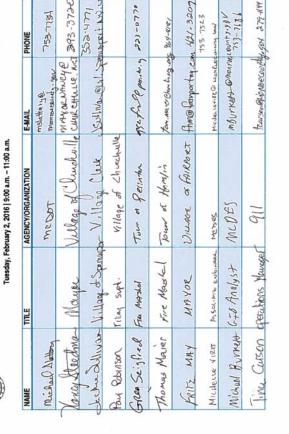
Monroe County HMP Update – Estimated CRS Program Discounts on Flood Insurance

As of 11/30/15

SIGN-IN

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Draft Plan Review





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223-0770

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SIGN-IN

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Draft Plan Review

Tuesday, February 2, 2016 | 9:00 a.m. - 11:00 a.m.

NAME	TITLE	AGENCY/ORGANIZATION	E-MAIL	PHONE
SyCoctes	For marchal	Town ct 12-1	o Tongt we His	
LYWN DALEY	LYNN THEY DIRECTOR P. T. T.	R. T. T.	last messarite du	edus
Redrey Gray Club	tro	MCOMH	rear Brownest su	32
Sarah Moravan	MH Rogram Analyst	MCOMH	Sarahmoravangmanroccounty.gx	753-2615 SourceCounty-Ga
Jake Swingly	Super utendent	Superintendent 1,11940 of Webs 8165	JB wingly@ Uillegeof webster a	ZBI-8602
Nill Basham		Building Inspector Village of Wibstr	whoorkan Dillagoophurbloter.com	200c.com
Mark Doll		5 UNY Brackport	mnoll brodgested 875-5717	515-5717
Submilayonel Concilworan		Town of RIGA	deempralletory of riga. org	746-1920

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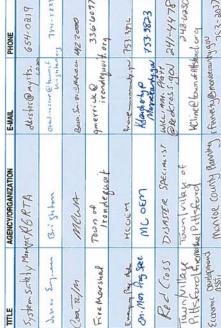


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Tuesday, February 2, 2016 | 9:00 a.m. - 11:00 a.m.

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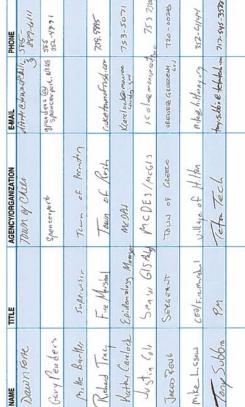
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MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT Planning Committee Meeting – Draft Plan Review





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MONROE COUNTY TO HOST PUBLIC MEETING ON HAZARD MITIGATION PLAN

Monroe County's Office of Emergency Management has completed a draft update to its Hazard Mitigation Plan (HMP). The HMP documents the County's vulnerability to hazards, and its strategy to reduce that vulnerability. The completed draft can be found at www.monroecountyhmp.com

There will be a public meeting to discuss the draft HMP on Monday, April 18, 2016, from 6:00-7:00 p.m. at the Monroe County Office of Emergency Management located at 1190

For more information contact Frederick J. Rion, Jr., Emergency Preparedness Administrator, at 753-3810 or visit www.monroecountyhmp.com.

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Media Inquiries, contact: Department of Communications at 753-1080





MEETING NOTES

Meeting	Monroe County Hazard Mitigation Plan (HMP) Draft Pla	n Reviev	v Public Meeting		
Date	April 18, 2016	Time	6:00 – 7:15 p.m.		
Location	Monroe County Office of Emergency Management (MCOEM), Rochester, New York				
Fred Rion, Emergency Preparedness Administrator, MCOEM					
Attendees	Tracy DiFlorio, Monroe County Legislator				
	David Miles, Monroe County Resident				

Purpose

The purpose of this meeting was to discuss the completed draft of the updated HMP with the general public and other interested parties.

Discussion Points

Discussion points addressed during the meeting are summarized below.

Mr. Rion led a discussion of the sections of the HMP. These sections are available on the project website

- Section 1: Introduction describes mitigation planning, identifies the participating jurisdictions, and provides an overview of the HMP.
- Section 2: Plan Adoption describes the plan adoption process
- . Section 3: Planning Process identifies the participants of the planning process, describes the planning activities undertaken during the HMP update process, and describes how the planning process will continue after the draft is approved.
- Section 4: County Profile describes the history of the County, its physical features, the popul demographics, building stock, land use and trends, and critical facilities.
- Section 5: Risk Assessment identifies the hazards of concern, describes how each hazard is prioritized. based on the level of risk it poses to the County and its jurisdictions, and includes full profiles of each hazard
- Section 6: Mitigation Strategies describes past accomplishments in implementing hazard mitigation
 initiatives throughout the County; lists the hazard mitigation goals and objectives; describes the federal State, County, and local capabilities that can be leveraged to reduce vulnerability to hazards; and describes how mitigation actions were identified, evaluated, and prioritized by each jurisdiction.
- Section 7: Plan Maintenance identifies Mr. Rion as the HMP Coordinator and describes his
 responsibilities. It also identifies members of the Planning Committee that will maintain the plan over the next 5 years, and describes how the plan will be monitored, evaluated, and updated. This section also describes how the HMP is integrated into other planning mechanisms and vice versa
- . Section 8: Planning Partnership lists the participating jurisdictions and introduces the content of the
- Section 9: Jurisdictional Annexes contains an annex for each participating jurisdiction. Each annex identifies the primary and alternate point of contact for the jurisdiction, describes the jurisdiction, assesses



MEETING NOTES

the risk posed to the jurisdiction by the hazards of concern, describes how the National Flood Insurance Program (NFIP) is implemented in the jurisdiction, identifies critical facilities, describes the jurisdiction's capabilities to implement hazard mitigation, lists the status of all mitigation actions in the 2011 version of the HMP, identifies the actions that the jurisdiction included in the HMP update, and prioritizes those actions.

The following next steps were identified during the meeting:

- The County and Tetra Tech, Inc. (Tetra Tech) will work with jurisdiction representatives to complete the jurisdictional annexes.
- The draft plan will be finalized in April 2016.
- Upon finalization, the plan will be submitted to the State and Federal Emergency Management Agency (FEMA) for formal review.
- The plan should be ready for adoption by the County and participating jurisdiction in the summer of 2016.

With no further questions, Mr. Rion thanked the attendees for their time. The meeting concluded at 7:15 p.m.

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Agenda

- Draft Plan Review
- Next Steps



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Draft Plan Review Section 1: Introduction Section 3: Planning Process MAN 8







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Draft Plan Review ection 8: Planning Partn Section 9: Jurisdictional Annexe (8)





- Finalize Jurisdictional Annexes April 2016
- Finishing Touches April 2016
 Submit to NYS DHSES and FEMA April/May 2016
- Adontion Estimated Summer 2016

Questions? Thank you for your time!

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AGENDA

MONROE COUNTY HAZARD MITIGATION PLAN UPDATE PROJECT **Public Draft Plan Review Meeting**

Agenda

Monday, April 18, 2016 | 6:00 p.m. - 7:00 p.m.

1. Welcome

- - Appendices

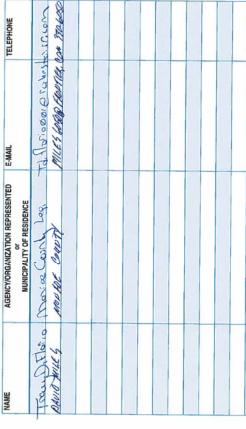
- 3. Next Steps
 a. Finalize Jurisdictional Annexes
 b. Finishing Touches
 c. Submit to NYS DHSES and FEMA
 d. Adoption

4. Questions



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Monday, April 18, 2016 | 6:00 p.m. - 7:00 p.m.





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