

APPENDIX H –

MEETING AGENDAS AND PRESENTATIONS

This Appendix contains copies of the agendas, attendance records, and presentations for key meetings, specifically:

July 12, 2010	Planning Process Kickoff Meeting of the CPG
October 4, 2010	Risk Assessment Progress Meeting of the CPG
November 1, 2010	Risk Assessment Question and Answer Session of the CPG
November 30, 2010	Mitigation Strategy Working Session of the CPG
November 30, 2010	Stakeholders Information Session
January 26, 2011	CPG Meeting to Discuss the Draft Plan <i>**Note – this meeting was not yet held as of document preparation; information will be inserted into the Final Plan.</i>

And also:

Date TBD, 2011	Meeting to Present the Draft Plan to Public and County Legislators <i>**Note – this meeting was not yet held as of document preparation; information will be inserted into the Final Plan. The County wishes to present to legislators after APA designation</i>
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Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project

Kickoff Meeting – July 12, 2010

Session One: 2-4pm

Agenda

- Call to Order í í í í í í í í í í í í í í í í í ...*Kelly Paslow, Director, RCBPS*
- Welcome and Opening Remarks í í í í í í í í í*Kathleen M. Jimino, Rensselaer County Executive*
- Overview of the Project í í í í í*Anna Foley, Project Manager, URS*
Richard Franks, Deputy Project Manager, URS
 - Intent of the Project
 - Why Prepare a Hazard Mitigation Plan?
 - What is a Multi-Jurisdictional Plan?
 - Why Participate in a Multi-Jurisdictional Plan Development Process?
 - Organizational Structure of the Planning Group
 - Overview of the Plan Development Process
 - The Role of Participating Jurisdictions, Contractors, the Public & Other Stakeholders
 - Participation Criteria
 - Key Deliverables
 - Data Collection//Supporting Documents
 - Project Timeline
 - Next Steps
 - Questions & Answers
- State Involvement í í í í í í í í í í í í í í í í í .*John Fishbein, Mitigation Planner, NYSEMO*
- Closing Remarks í í í í í í í í í í í í í í í í í .*Kelly Paslow, Director - RCBPS*
- Adjourn

*Please remember to
SIGN IN
if you haven't already done so.
Thank you.*



Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project

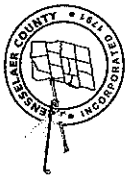
Kickoff Meeting – July 12, 2010

Session Two: 6-8pm

Agenda

- Call to Order í í í í í í í í í í í í í í í í ...*Kelly Paslow, Director, RCBPS*
- Welcome and Opening Remarks í í í í í í í í í *Kelly Paslow, Director, RCBPS*
- Overview of the Project í í í í í*Anna Foley, Project Manager, URS*
Richard Franks, Deputy Project Manager, URS
 - Intent of the Project
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 - Questions & Answers
- Closing Remarks í í í í í í í í í í í í í í í . *Kelly Paslow, Director - RCBPS*
- Adjourn

*Please remember to
SIGN IN
if you haven't already done so.
Thank you.*



Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project
 Project Kickoff Meeting - Monday, July 12, 2010
 Rensselaer County Government Center, 1600 Seventh Avenue, Troy, NY 12180 - Conference Room A

(Session One - 2pm) Pg. 1 of 2

Last Name	First Name	Representing	Email Address	Phone
Kasbrauck	Herbert	Town of Grafton		279-1737
Winn	JAMES	Town of Berlin		658-2162
MELAS	PETE	NYS DOT	AMELAS@DOT.STATE.NY.US	286-2301
Chad Weber	Janet	Village of Valley Falls	JWEBER1631@AOL.COM	753-6230
Weidlich	Idene	Rensselaer Co	jweidlich@renesco.com	270-2690
Stan Wagner	Ivan	BPS Fire Food	IWA@ERRC@AOL.COM	655-2893
David Vanderheide	Linda	Rens Co Planning	Lvanderheide@renesco.com	270-2924
MCCas5	Fred	Town of Nassau	nassauhighway@airpoint.net	766-9417
Carlson	Jean	T/Schaghticoke	Supervisor@townofschaghticoke.org	518-753-6915 x104
Selma	Jim	W/SEEG	JJSelma@W/SEEG.com	518-664-9634 x35
Rounds	Burt	Sand Lake	Super@Sand-lake.ny.us	518-674-2026 Ext 72
Goebel	Jonathan	Nassau BPS Rensselaer/Laigoebel	JonathanGoebel@renesco.com	518-266-2678



Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project
 Project Kickoff Meeting - Monday, July 12, 2010
 Rensselaer County Government Center, 1600 Seventh Avenue, Troy, NY 12180 - Conference Room A

(Session One - 2pm) PG. 2 of 2

Last Name	First Name	Representing	Email Address	Phone
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Eisenbandler	Ellen	Rens. Co. BPS	EllenE@adl.com	518) 265-7980
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Wilson	Jay	Town of North Greenbush	JWilson@NGB.org	518 467-8057
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Jordan	Brian	SEm Ry 3	Brian.Jordan@semo.state.ny.us	518-793-6646
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Franks	Richard	URS Corp.	richard-franks@urscorp.com	973-785-0700x449
Rosa	David	URS Corp.	david-rosa@urscorp.com	973-785-0700 x312



**Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project
Project Kickoff Meeting – Monday, July 12, 2010**

Project Kickoff Meeting – Monday, July 12, 2010

Rensselaer County Government Center, 1600 Seventh Avenue, Troy, NY 12180 - Conference Room A

(Session Two – 6pm)

1801


Last Name	First Name	Representing	Email Address	Phone
Barlow	Kelly	Rm Co BPS	KVAStewart@newsx.com	518-266-7676
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NABER	DAVE	VILLAGE OF Schoharie	ARNABER@NYSOAR.NY.gov	518-752-7646
Goodell	Jonathan	Rm County BPS	jgaebel@rensco.com	518-266-7678
Foley	Anna	URS Corp.	anna_foley@urscorp.com	973-785-0700 x339
Franks	Richard	URS Corp.	richard_franks@urscorp.com	" " x449
Rosa	David	URS Corp.	david_rosa@urscorp.com	" " x312

 **Rensselaer County Multi-Jurisdictional
Hazard Mitigation Planning Project**

Kickoff Meeting
July 12, 2010
 Session One: 2pm
 Session Two: 6pm

Rensselaer County Government Center
 Conference Room A
 1600 Seventh Avenue, Troy



 **Today's Agenda:**

- Project Overview
- Intent of the Project
- Organizational Structure of the Planning Group
- Overview of the Plan Development Process
- Roles and Responsibilities
- Participation Criteria
- Key Deliverables
- Data Collection / Supporting Documents
- Project Timeline
- Next Steps
- Questions and Answers


 **The Consultant**

URS

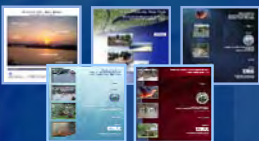
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Richard Franks, Deputy Project Manager
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 richard_franks@urscorp.com

Our Commitment:
A FEMA-Approved Plan

 **URS Wayne Office Hazard Mitigation Plans**

- 8 NY State Plans and 4 NJ Plans
- Five FEMA-approved plans (191 jurisdictions, 2004 to present)
- Six plans ongoing or under state/federal review covering additional 130 jurisdictions *(not including Rensselaer County)*




 **Mitigation and Mitigation Planning**

- **Hazard Mitigation** is any sustained action taken to reduce or eliminate long-term risk to life and property from a hazard event.
- **Hazard Mitigation Planning** is a *process* for State, local, and Indian Tribal governments to identify policies, activities, and tools to implement mitigation actions.
- Consultants walk you through the process needed to meet FEMA requirements and author the plan.



 **Intent of the Project:**
Why Prepare a Hazard Mitigation Plan?

- Study natural hazards,
- Evaluate hazard effects, and
- Identify **hazard mitigation** measures that will reduce risks.



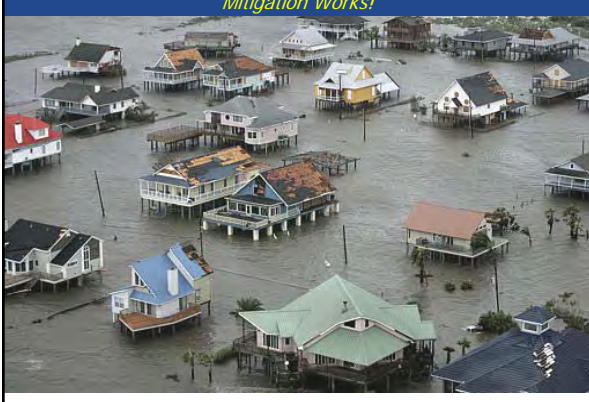


Mitigation Measures – Some Examples

- Elevating a house to reduce flood damages
- Installing hurricane clips to roofs to reduce wind damage
- Retrofit structures with fire-resistant materials (e.g. roofing)
- Modifying building codes to incorporate hazard-resistant design

Mitigation Works!



Elevated homes in Sweet Lake, LA (near Lake Charles) after Hurricane Rita (09/24/05).




Intent of the Project: Why Prepare a Hazard Mitigation Plan?




- Mitigation planning leads to judicious selection of risk reduction actions and established funding priorities.




- Implementation of mitigation actions is intended to reduce the costs of a future disaster.




Intent of the Project: Why Prepare a Hazard Mitigation Plan?




- Costs of a disaster can often exceed available State and Federal aid.




- Damages can be prevented by taking the time to:
 - ◆ learn about hazards and anticipate where and how they occur; and
 - ◆ allocate resources accordingly.



Intent of the Project: Why Prepare a Hazard Mitigation Plan?



- Disaster Mitigation Act of 2000 requires it!
- Plan preparation is funded by a FEMA grant
- No out-of-pocket cost to local municipalities
- Once the plan is approved by FEMA, participating jurisdictions will be eligible to apply for hazard mitigation project grants.



Key Point:

- Focus on natural hazards for the purposes of this planning effort.

Intent of the Project: *What is a Multi-Jurisdictional Plan?*

- Communities joining together to participate in a single local mitigation plan development process.
- Common:
 - Planning Process
 - Hazards
 - Goals
 - Plan Maintenance Procedures
- Unique:
 - Risks
 - Mitigation Actions
 - Participation
 - Plan Adoption

Intent of the Project: *What is a Multi-Jurisdictional Plan?*

- Each jurisdiction will identify its own set of mitigation actions for the plan
- No competition between municipalities
- Unique:
 - Risks
 - Mitigation Actions
 - Participation
 - Plan Adoption

Intent of the Project: *What is a Multi-Jurisdictional Plan?*

- Basic processes for single jurisdiction and multi-jurisdictional plans are identical.
- Difference lies in degree of complexity.

Intent of the Project: *Why Participate in a Multi-Jurisdictional Plan Development Process?*

- The burden on each municipality is minimal, but the cost to do a single jurisdiction plan is not.
- There are tremendous economies of scale (resources, staff hours, and \$\$) that are realized by coming together in a joint process.
- By participating in a multi-jurisdictional plan, your municipality will gain **all the benefits** of having a plan with the **minimum level of effort** in plan development.

Organizational Structure of the Planning Group

Jurisdictional Assessment Teams:

- For each participating jurisdiction
- Head member (plus alternate) on Core Planning Group



Key:


- RCEPS: Rensselaer County Bureau of Public Safety
- CPG: Core Planning Group
- JAT: Jurisdictional Assessment Team



Overview of the Plan Development Process: *Key Steps*




- Researching a full range of natural hazard events to determine which are the most prevalent;
- Identifying the location and extent of hazard areas;
- Identifying assets located within these hazard areas;








Overview of the Plan Development Process: *Key Steps*


- Characterizing existing and potential future assets at risk;
- Assessing vulnerabilities to the most prevalent hazards; and
- Evaluating and prioritizing goals, objectives, and mitigation actions to reduce or avoid long-term vulnerabilities to the most prevalent hazards.



Key Steps

- **Data Review - Incorporation of existing plans/studies/reports**



A Wish List for Core Planning Group Member completion is included in your handout packet. Please return any information/data/documents to URS by 08/12/10.




Key Steps

- **Identification of Potential Hazards**
 - Evaluation of a full range of natural hazards
 - Hazards identified for inclusion & why
 - Hazards not identified & why not



A questionnaire for Core Planning Group Member completion is included in your handout packet. Please return to URS by 08/12/10.



What is the "full range" of hazards that we consider for possible inclusion in the plan?

■ Avalanches	■ Ice Jams	■ Tornadoes
■ Coastal Erosion	■ Landslides	■ Winter Storms / Ice Storms
■ Wave Action	■ Land Subsidence	■ Tsunamis
■ Earthquakes	■ Drought	■ Volcanoes
■ Expansive Soils	■ Extreme Temps	■ Wildfires
■ Floods	■ Hail	■ Extreme Winds
■ Storm Surge	■ Hurricanes / Tropical Storms	■ Lightning
■ Dam Failure	■ Nor'easters	



Key Steps


- **Risk Assessment**
 - **Hazard Profiles**
 - Description of hazard
 - Location of hazard area
 - Extent (magnitude or severity)
 - Previous occurrences
 - Probability/likelihood of future occurrences






Key Steps


- **Risk Assessment**
 - **Asset Identification and Characterization**
 - Quantifies what is at risk
 - Five key types of assets considered:
 - Improved property
 - Emergency facilities
 - Utilities
 - Historic & cultural resources
 - Population



Key Steps




- **Risk Assessment**
 - **Damage Estimates**
 - Estimate potential losses (dollars/ qualitative) to assets located in hazard areas
 - *Why?* To identify centers where the cost of potential damage is the highest




Key Steps

- **Risk Assessment**
 - **Existing Land Uses and Future Development Trends in Hazard Areas**
 - Where is new development planned?
 - How much of this is in hazard areas?
 - Are there codes/regulations in place to provide a certain degree of protection from the most frequent events?



A brief questionnaire will be distributed by RCBPS to Core Planning Group Members for return by 09/13/10.



Key Steps

- **Capabilities and Resources**
 - Plans, codes, and ordinances currently in place
 - Can contribute to, or be utilized for, hazard mitigation
 - Local Municipalities, County, State, Federal

A brief questionnaire will be distributed by RCBPS to Core Planning Group Members for return by 10/12/10.




Key Steps

- **Mitigation Strategy**
 - Goals
 - Evaluate full range of actions
 - Select actions
 - Prioritize selected actions
 - Identify responsible party, potential funding source, and time frame




This step will be the subject of a working session where the Core Planning Group members will complete a series of three worksheets. (Targeted for mid-November)




Key Steps

- **Plan Maintenance**
 - Final Plan is a "living document"
 - DMA 2000 requires updates, 5 year cycle
 - Regular monitoring and review of progress




Key Steps

- **Plan Integration**
 - DMA 2000 requires integration of mitigation plan into
 - job descriptions,
 - other local plans,
 - permitting vehicles,
 - etc...



Break – Please return in 10 minutes



Plan Development

Consultant
County
Municipalities
General Public
Other Stakeholders



The Role of Participating Jurisdictions

- **Who Are Participating Jurisdictions:**
Jurisdictions that want the overall multi-jurisdictional plan to “count”, in FEMA’s eyes, as their jurisdiction’s mitigation plan.
 - ◆ Participate, contribute
 - AND**
 - ◆ Formally adopt the Final Plan

The Role of Participating Jurisdictions

- **Participating Jurisdictions must...**
 - ◆ Attend meetings (*four additional with URS- September, October and November plus early 2011 public meeting on the Draft Plan*)
 - ◆ Provide available data/documents on the “Wish List”
 - ◆ Respond to questionnaires (*three*)
 - ◆ Give the public and key stakeholders in their jurisdiction opportunities to participate in plan development (*see Guidance Memo #1; use Outreach Log to track your activities*)




 Broward County Multi-Jurisdictional Hazard Mitigation Planning Project OUTREACH LOG: <small>(Records of Outreach Activities to the General Public and Other Stakeholders)</small>			
PARTICIPATING JURISDICTION			
DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY LOCATION	LEAD DEPARTMENT/AGENCY/STAFF AND DESCRIPTION OF ACTIVITY

Please add additional pages as needed and return to URS. Attachments should only be kept if needed. Do not redistribute information. Distribution: Region: Broward County 40750 2000, Phone: 954.336.6000 Fax: 954.657.4000 Email: jones.broward@urscorp.com, jones.broward@urscorp.com

The Role of Participating Jurisdictions

- **Participating Jurisdictions must also...**
 - ◆ Select mitigation actions (*worksheet*)
 - ◆ Define implementation strategy (*worksheet*)
 - ◆ Adopt the plan (*by resolution*)
 - ◆ Participate in plan maintenance/updates



The Role of Participating Jurisdictions

- If you do not participate actively in the plan's development (through attendance at meetings and submittal of Core Planning Group Deliverables)

OR



- If you do not identify an implementation strategy including mitigation actions for each identified hazard

THEN

- FEMA will not approve the plan for your municipality.

The Rensselaer County Planning Project

THE
FINAL
COUNTY-
WIDE
PLAN

Recognized by FEMA:

- County
- Jurisdictions meeting ALL of the participation criteria

NOT Recognized by FEMA:

- Any jurisdictions that don't meet ALL of the participation criteria

The Role of the Public and Other Stakeholders

- Who Are Other Stakeholders?

<ul style="list-style-type: none"> ◆ Neighborhood groups ◆ Non-profit organizations (i.e. scout troops, Red Cross, Salvation Army) ◆ Housing organizations ◆ Environmental groups ◆ Historic preservation groups ◆ Parent-teacher organizations ◆ Church organizations ◆ Parks organizations 	<ul style="list-style-type: none"> ◆ State, federal, and local government offices ◆ Neighboring communities/counties ◆ Business and development organizations ◆ Academic institutions ◆ Utility providers ◆ Hospitals ◆ Tribal groups 	<ul style="list-style-type: none"> ◆ Transportation entities ◆ Regional planning organizations ◆ Emergency service providers ◆ Jurisdiction web site managers / IT staff ◆ Any local office and/or group with a public outreach focus
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The Role of the Public and Other Stakeholders

- Role of the Public and Other Stakeholders:
 - ◆ Advisory role
 - ◆ Provide feedback
 - ◆ Historic hazard effects
 - ◆ Proposed mitigation actions
 - ◆ Etc...
 - ◆ CPG gets the word out to the public and other stakeholders in their area

Key URS Deliverables


- Guidance Memorandums (3 throughout process, one of which is in today's handouts)
- Working Draft Plan Chapters (ongoing)
- Risk Assessment Interim Deliverable (October)
- Draft Plan (to CPG December; to NYSEMO January)

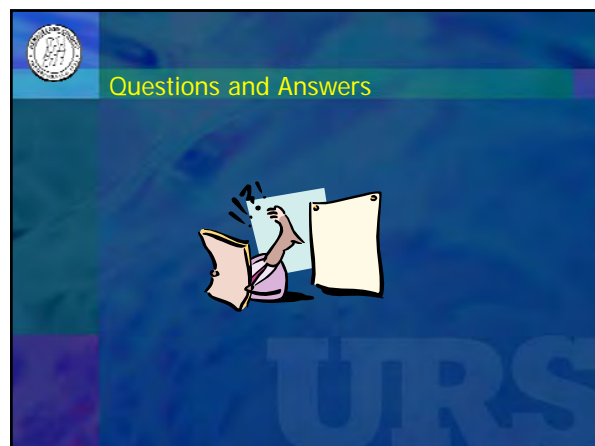
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Review: NYSEMO & FEMA

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- Final Plan (60 days from coordinated comments on Draft)

<div>  TABLE 100 IMPLEMENTATION SCHEDULE Rensselaer County, New York Multi-Jurisdictional Natural Hazard Mitigation Planning Project </div>			
Task	Deliverable	Days	Targeted Completion Date
1	Project Initiation Meeting - Solicitors of State Plan (Meeting 1)	7 days from NTF	05/11/10
2	Establish the Planning Committee (Guidance Memo 1 and Sample Letter)	21 days from Task 1	06/01/10
3	Project Kickoff Presentation with the Planning Team (Meeting 2)	21 days from Task 2	07/02/10
4	Outreach Tools (Fact Sheet and Web Site Support)	30 days from Task 1	06/10/10
5	Review of Available Data	60 days from Task 1	08/10/10
6	Hazard Identification (Questionnaire 1)	30 days from Task 1	06/10/10
7	Hazard Profiles	30 days from Task 6	07/10/10
8	Asset Inventory	30 days from Task 7	08/09/10
9	Estimating Losses	30 days from Task 8	09/09/10
10	Land Use and Development Trends (Questionnaire 2)	60 days from Task 3	09/10/10
11	Research of Types of Mitigation Alternatives	7 days from Task 9A	10/05/10
12	Risk Assessment Meeting (Meeting 3)	Timing at Conclusion of RACDP	10/05
13	Risk Assessment Interim Deliverable	7 days from Task 10	10/12/10
14	Risk Assessment Q&A Session (Meeting 4)	15 days from Task 12	10/27/10
15	Capacity Assessment (Questionnaire #3)	150 days from NTF	10/21/10
16	Mitigation Strategy Working Session (Meeting 5)	15 days from Task 13	11/11/10
17	Plan Maintenance Procedures (Guidance Memo 2)	150 days from NTF	10/21/10
18	Plan Integration Strategy (Guidance Memo 3)	150 days from NTF	10/21/10
19	Final Draft to RACDP	37 days from Task 15	12/18/10
20	Revised Draft for Review to NYSED	10 days from Task 18A	01/15/11
21	Reviewing on the Draft Plan	Timing at Conclusion of RACDP	10/05
22	Final Plan	60 days from coordinated comments on Draft	09/05





Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project

Progress Meeting – October 4, 2010

Agenda

- Welcome & Opening Remarks í í í í í í í í í í í ..*Kelly Paslow, Director, RCBPS*
- Current Status of Participation í í .í í í í í í í í í *Kelly Paslow, Director, RCBPS*
- Overview of Project Progress í í í í í í*Anna Foley, URS*
 - Importance of Hazard Mitigation Planning
 - Planning Group Participation and Responsibilities
 - Project Timeline and Current Project Status
 - Upcoming **Risk Assessment Interim Deliverable**
 - Capability Assessment
 - Other Steps
 - To-Do Actions for Jurisdictions
 - Questions & Answers
- Assistance with Completion of Forms/Questionnaires/Etc. Requested To-Date í í í ...í ...*All*
- Closing Remarks í .í í í í í í í í í í í í í ..í í ..*Kelly Paslow, Director, RCBPS*
- Adjourn

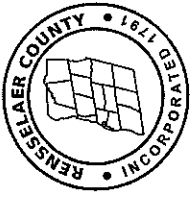




Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project
Risk Assessment Progress Meeting – October 4, 2010 (2-4 pm)
Rensselaer County Government Center, 1600 Seventh Avenue, Troy, NY 12180 in Conference Room A

P.1/2

Last Name	First Name	Representing	Email Address	Phone
Crowell	Sarah	City of Rensselaer	Sarah.Crowell@rensco.ny.gov	
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Henriksen	Robert	Village of East Warren	RH@locustnet.com	794-0299
Church	Tim	Town of Petersburg	Tim58891@netzero.com	658-3453
MELAS	PETE	NYSDOT	PMELAS@DOT.STATE.NY.US	286-2300
WEIDLICH	Jolene	Rensselaer Co.	jweidlich@rensco.com	
CARBONI	JOHN	CITY OF TROY	JOHN.CARBONI@TROYNY.GOV	578-376-3747
Coyne	JAMES	Grafton		514 812-3220
ASHWORTH	JOSEPHINE	Town of North Greenbush	ashworth@townofng.com	283-5313
Krenner	Austin	Grafton	grafton-supervisor@verizon.net	279-3565
Locivita	Mark	Renss Co. BPS	mark25a@gmail.com	527-0409
Goebel	Jonathan	Rensselaer County	jgoebel@rensco.com	266-7678
Foley	Anna	UPS Coop.	anna-foley@urscorp.com	973-785-0700 x339



Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project
Risk Assessment Progress Meeting – October 4, 2010 (2-4 pm)
Rensselaer County Government Center, 1600 Seventh Avenue, Troy, NY 12180 in Conference Room A

P.2/2

Last Name	First Name	Representing	Email Address	Phone
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Bonstedt	Wayne	Renss.Co. Engineer	Wbonestedt@rengo.com	518-283-0973
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Brunkert	Bob	Port Jervis	CRPOST@NYCAP.PR.COM	283-5100
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Goodermote	Alden	Stephentown		833-5994
Eckhardt	Larry	Stephentown	KCFEAC@taconic.net	518-733-9195

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Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project

2-4 pm

Rensselaer County Government Center
1600 Seventh Avenue, Troy
Conference Room A



Today's Agenda

- Welcome and Opening Remarks..... Kelly Paslow, RCBPS
- Current Status of Participation..... Kelly Paslow, RCBPS
- Overview of Project Progress..... Anna Foley, URS
- Assistance with Completion of Worksheets..... All
- Closing Remarks..... Kelly Paslow, RCBPS
- Adjourn

Participation and its Benefits



Current Status of Participation

[illegible]

"Nature, as we know her, is no saint."
- Ralph Waldo Emerson




Some past events in Rensselaer County...



Building Disaster Resistant Communities

- Natural disasters are a part of our past, and they will inevitably be a part of our future.
- Costs of repair/recovery can be staggering and often have long-term consequences.
- Federal dollars are not always available to aid in the recovery process for *every* occurrence (i.e., June 2009).



Building Disaster Resistant Communities

- Returning a damaged building or piece of infrastructure to the pre-disaster status quo leaves people and property in harms way.
- Natural hazards will always be present, but by planning ahead, mitigation projects can work to reduce their effects.**




Hazard Mitigation: "Recovery With Foresight"

- Hazard Mitigation:
 - Saves time and money
 - Protects lives and property
 - Helps preserve economic and social fabric of the community

Hazard Mitigation: "Recovery With Foresight"

- According to a study by the Multihazard Mitigation Council (part of the National Institute of Building Sciences):
Every \$1 paid toward mitigation saves an average of \$4 in future disaster-related costs




Why participate in this plan?

- Bottom Line: Free money**

\$\$ Once the plan is approved by FEMA, participating jurisdictions will be eligible to apply for hazard mitigation project grants.

\$\$ Good projects will be "on the shelf" for when funding opportunities open up.



What kinds of projects can be applied for?

Once the plan is approved, jurisdictions that participate fully will be able to apply for projects like these (few examples):

- Acquire/elevate/floodproof/relocate structures
- Road raising/relocation
- Culvert upgrades
- Bridge retrofits
- Utility system protective measures
- Wind retrofits for buildings
- Minor localized flood reduction projects (inc. retention/detention basins)
- Soil stabilization (geotextiles, rip rap, etc.)
- Wildfire mitigation (defensible space, ignition-resistant construction, fuel reduction)

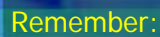
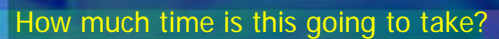


-
- A bar chart with two bars. The first bar is yellow and labeled 'Spent' with the number '1' on top. The second bar is green and labeled 'Saved' with the number '4' on top. A large red 'X' is drawn over the 'Spent' bar.

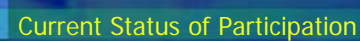


To DO:

- on (3 worksheets)
t on the RAID and Draft Plan



-
- An illustration of four children, two boys and two girls, holding large, light blue puzzle pieces. The children are positioned around the puzzle pieces, which are arranged in a square pattern. The boy on the top left is wearing a blue shirt, the girl on the top right is wearing a green shirt, the girl on the bottom left is wearing a red dress, and the boy on the bottom right is wearing a brown shirt. The background is a solid blue color.

[illegible]

Mitigation Success Story:
Village of Ellicottville (Cattaraugus County)


Population 472; just under 1 square mile

Problem

- Bridge at confluence of two creeks
- Abutments restricted flow
 - Water backed up during even moderate rain/snowmelt
 - \$125,000 in annual damages
 - January 1996 Flood (DR-1095) → \$371,000

FEMA Mitigation Grant

- Bridge replacement (widen abutments), channel reconfiguration
- Cost \$421,000 (75% FEMA HMGP; 25% County)
- Completed in 1998
- Public investment already recouped



Mitigation Success Story:
Hamlet of Morrisonville (Clinton County)

Population 1,702; just under 3 square miles

Problem

- Ice jam flooding along Saranac River
- Roughly once every 10 years
 - January 1996 Flood (DR-1095) damages \$667,000
 - Residents had to be evacuated at night during dangerous ice and high water conditions

FEMA Mitigation Grant

- Acquisition of 19 residential homes and 3 vacant lots
- Cost \$1.4M (75% FEMA HMGP; 25% State/County/Private)
- Most homes vacated by November 1996 when next event occurred
- Substantial savings realized in less than one year



Town Hall

Hazard Mitigation Planning?

Well, we'll cross that bridge when we come to it.



FLOOD

* Modified cartoon by Chris Madden


Overview of the Plan Development Process: Key Steps

- Researching a full range of natural hazard events to determine which are the most prevalent;
- Identifying the location and extent of hazard areas;
- Identifying assets located within these hazard areas;



Overview of the Plan Development Process: Key Steps

- Characterizing existing and potential future assets at risk;
- Assessing vulnerabilities to the most prevalent hazards; and
- Evaluating and prioritizing goals, objectives, and mitigation actions to reduce or avoid long-term vulnerabilities to the most prevalent hazards.




Project Timeline

Kickoff Meeting:	July 2010
Plan Development:	Ongoing
Local Feedback:	Ongoing
Risk Assessment Interim Deliverable:	October 2010
Risk Assessment Q&A Session:	October 2010
Mitigation Strategy Working Session:	November 2010
Draft Plan to CPG:	December 2010
Draft Plan to NYSEMO:	January 2011

Risk Assessment Interim Deliverable (RAID) In Progress


Working chapters of the overall plan:

- Hazard Identification
- Hazard Profiles
- Asset Identification and Characterization
- Vulnerabilities (Annual Damages)
- Land Uses and Development Trends
- Types of Mitigation Actions for Various Hazards



Hazard Identification Chapter of RAID Completed

- Evaluation of a full range of natural hazards (23)
- Hazards selected for further analysis and reasons why (13)
- Hazards not selected and reasons why not (10)



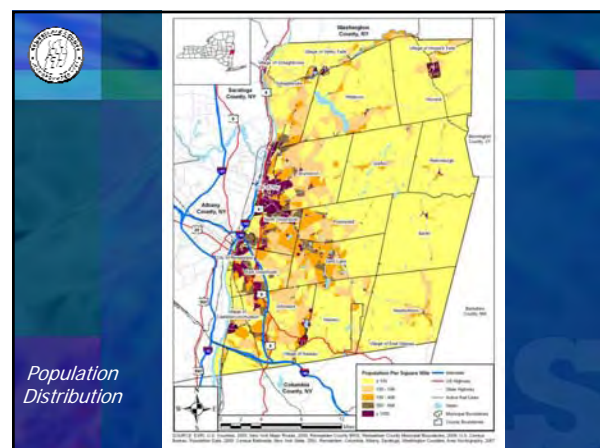
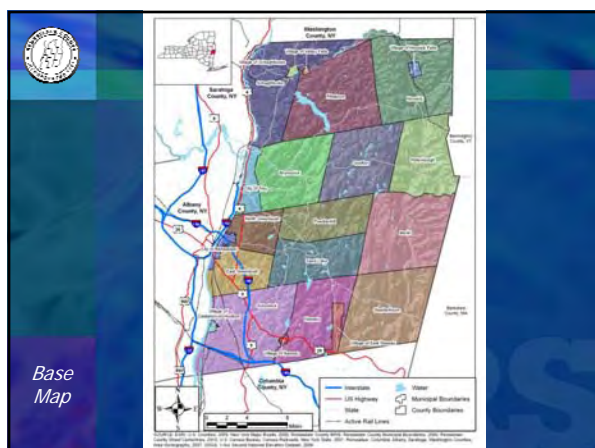
Hazard Identification Chapter of RAID Completed

23 hazards evaluated
13 identified as "significant" for further evaluation

■ Extreme Temperatures	■ Drought
■ Extreme Wind	■ Flood
■ Hurricane and Tropical Storms	■ Ice Jams
■ Lightning	■ Earthquakes
■ Tornadoes	■ Landslides
■ Winter Storms	■ Wildfires
■ Dam Failure	

Hazard Profiles Chapter of RAID Completed

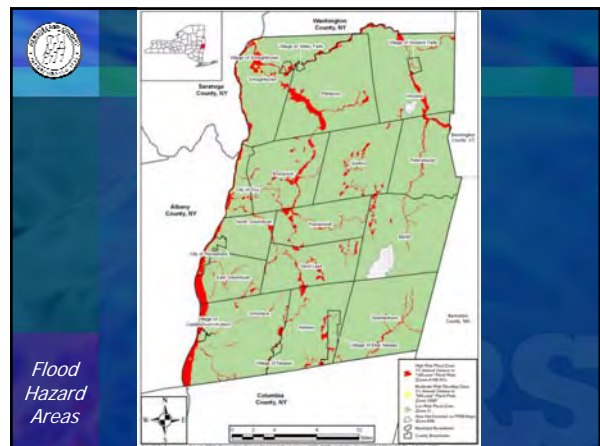
- Description of hazard
- Location of hazard area
- Extent (magnitude or severity)
- Previous occurrences
- Probability/likelihood of future occurrences



Distribution of Profiled Hazards

Table 3a.1
Summary of Profiled Hazards by Municipality

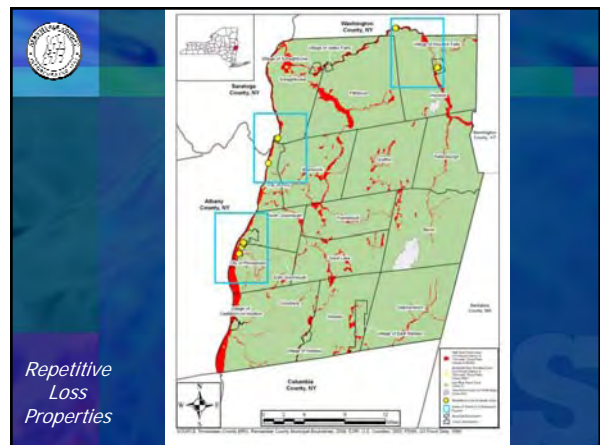
Jurisdiction	Extreme Temperatures	Extreme Wind	Hurricane and Tropical Storm	Tornado	Lightning	Winter Storm	Dam Failure	Drought	Flood ¹	Ice Jam ²	Earthquake	Landslide ³	Wildfire ⁴
Rensselaer County of													
Berlin, Town of													
Bonanza, Town of													
Carlton-on-Hudson, Village of													
East Greenbush, Town of													
East Nassau, Village of													
Greenville, Town of													
Hosack, Town of													
Hosack Falls, Village of													
Harris, Town of													
Harris, Village of													
North Greenbush, Town of													
Patterson, Town of													
Patterson, Town of													
Rensselaer, City of													
Sand Lake, Town of													
Schaghticoke, Town of													
Schaghticoke, Village of													
Schoharie, Town of													
Schoharie, Town of													
Shelburne, Town of													
Troy, City of													
Valley Falls, Village of													



Flood Hazard Areas

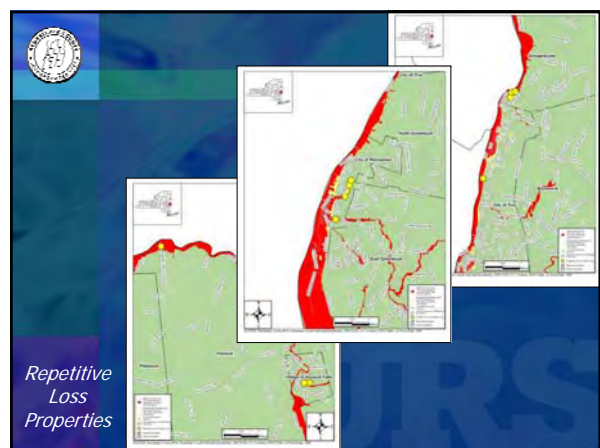
Summary of FEMA Q5 Flood Data by Municipality: Improved Property in Hazard Areas

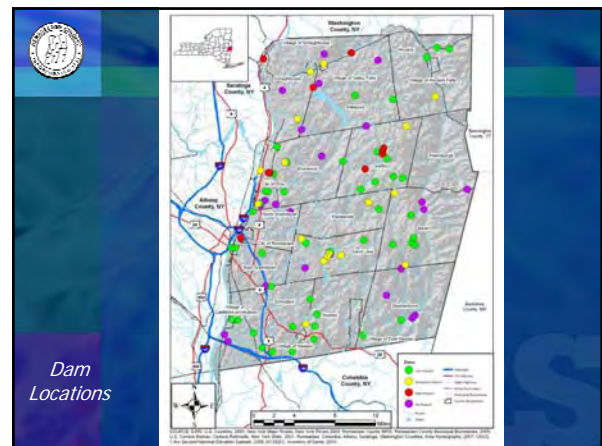
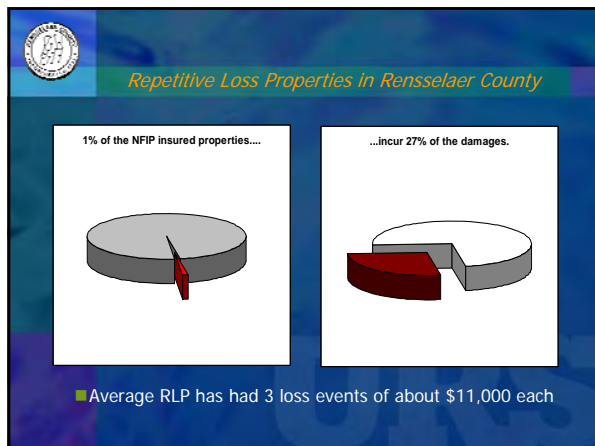
Municipality	Total Improved Property Value	Improved Property in High Flood Risk Areas		Improved Property in Moderate Flood Risk Areas		Improved Property in Low Flood Risk Areas	
		A, AE	X	A, AE	X (%)	A, AE	X (%)
Berlin, Town of	\$161,460,296	\$7,365,993	\$0	\$15,915,460	7%	0%	97%
Bonanza, Town of	\$93,076,230	\$41,246,232	\$666,171	\$893,163,031	4%	0.1%	96%
Carlton-on-Hudson, Village of	\$173,218,901	\$45,107,756	\$2,043,551	\$1,280,867,992	24%	1%	75%
East Greenbush, Town of	\$1,478,535,900	\$40,485,331	\$661,755	\$1,437,388,812	3%	0.04%	97%
East Nassau, Village of	\$36,635,844	\$1,574,931	\$405,069	\$12,634,862	10%	1%	89%
Greenville, Town of	\$160,142,003	\$4,706,080	\$0	\$155,433,203	3%	0%	97%
Hosack, Town of	\$276,325,323	\$6,462,770	\$0	\$269,291,973	2%	0%	97%
Hosack Falls, Village of	\$333,334,890	\$16,069,381	\$0	\$319,265,509	7%	0%	93%
Harris, Town of	\$207,287,186	\$6,404,721	\$377,291	\$200,134,141	7%	0.7%	97%
Harris, Village of	\$101,812,537	\$6,880,164	\$0	\$94,932,368	7%	0%	97%
North Greenbush, Town of	\$1,126,168,100	\$14,138,043	\$11,248,413	\$1,040,740,734	7%	2%	92%
Patterson, Town of	\$15,589,279	\$5,292,082	\$0	\$10,297,197	3%	0%	97%
Patterson, Town of	\$294,657,630	\$9,974,431	\$37,328	\$284,620,200	7%	0.02%	97%
Patterson, Town of	\$11,226,879	\$1,127,632	\$1,832,897	\$9,394,081	7%	1%	94%
Rensselaer, City of	\$527,481,632	\$122,812,734	\$10,949,246	\$416,635,537	23%	2%	71%
Sand Lake, Town of	\$618,731,130	\$33,897,439	\$2,863,108	\$584,833,693	7%	0.3%	96%
Schaghticoke, Town of	\$393,627,712	\$16,932,644	\$14,796,910	\$361,835,234	4%	4%	92%
Schaghticoke, Village of	\$46,285,242	\$995,159	\$25,082	\$45,289,991	2%	0.1%	98%
Schoharie, Town of	\$446,788,002	\$18,401,482	\$2,252,877	\$424,033,795	2%	0.3%	98%
Schoharie, Town of	\$187,025,080	\$5,411,373	\$444,371	\$181,613,706	3%	0.2%	97%
Troy, City of	\$4,097,481,405	\$223,453,120	\$192,613,242	\$3,904,868,163	5%	5%	87%
Valley Falls, Village of	\$24,033,244	\$143,066	\$7,262	\$23,883,016	2%	0.03%	98%
Rensselaer County Total	\$12,432,182,825	\$792,887,538	\$179,489,802	\$11,640,295,560	6%	2.2%	91%



Repetitive Loss Properties:

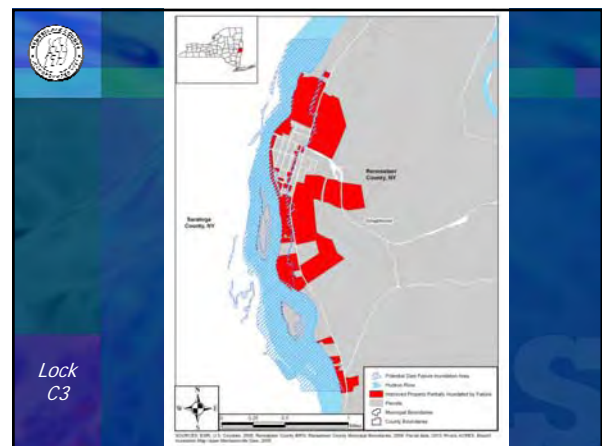
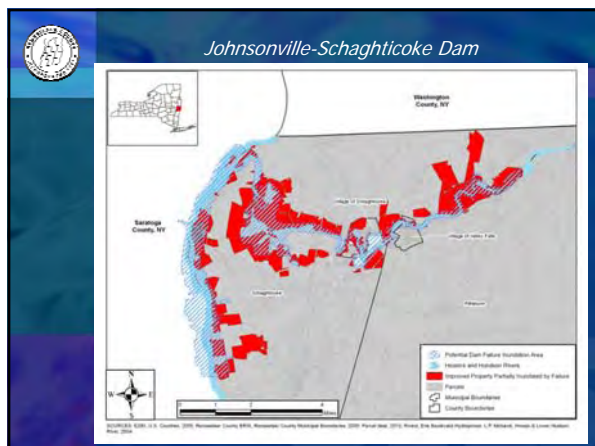
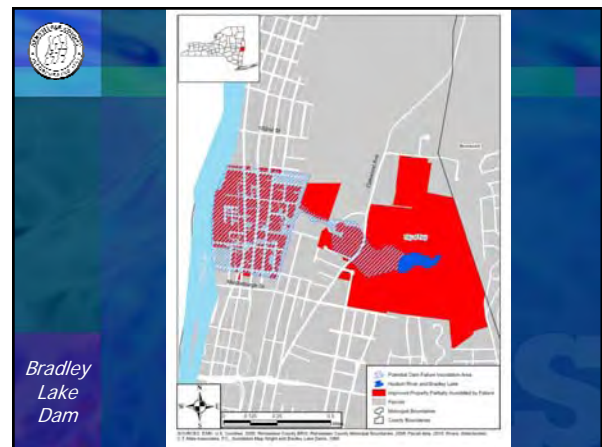
- Two or more losses
- Of at least \$1,000 each
- In any rolling 10-year window since community's entry into NFIP

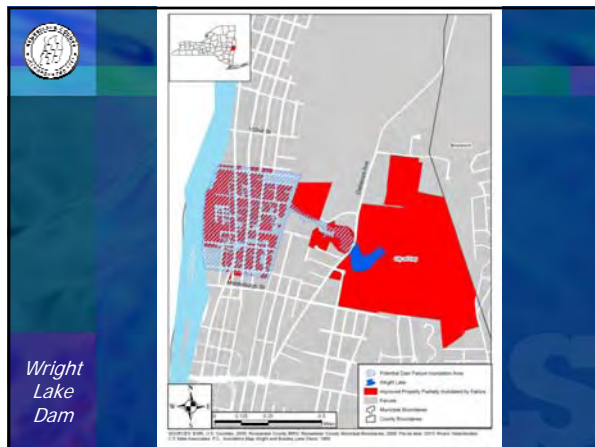
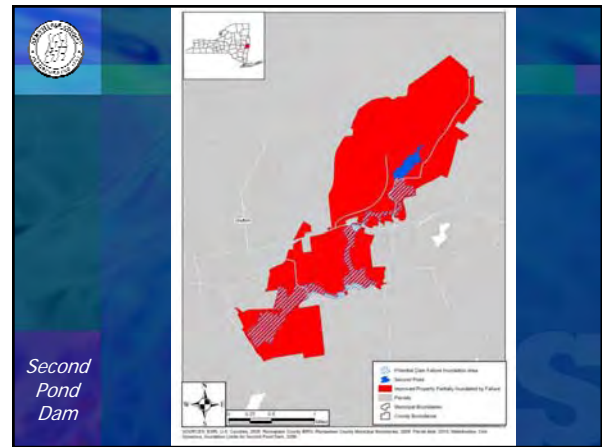
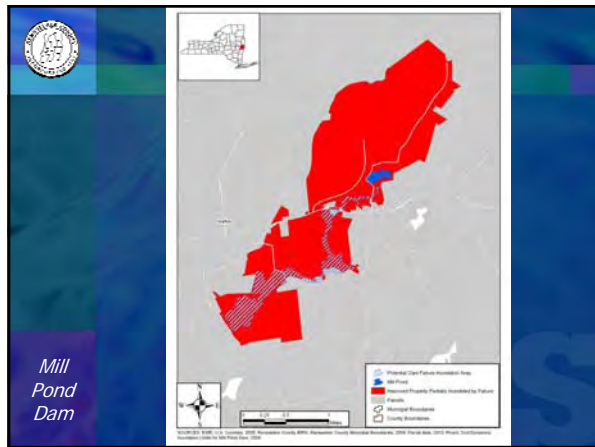
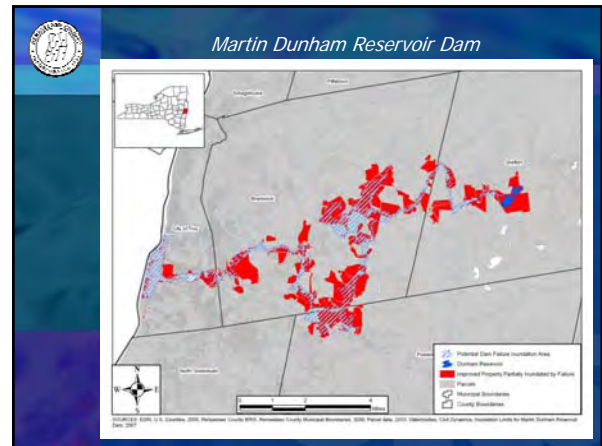
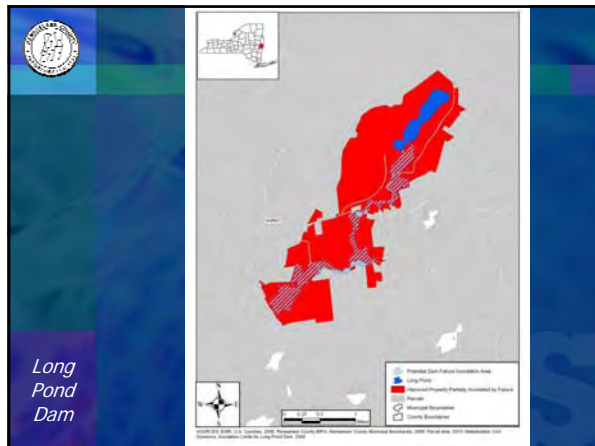




Dam Failure

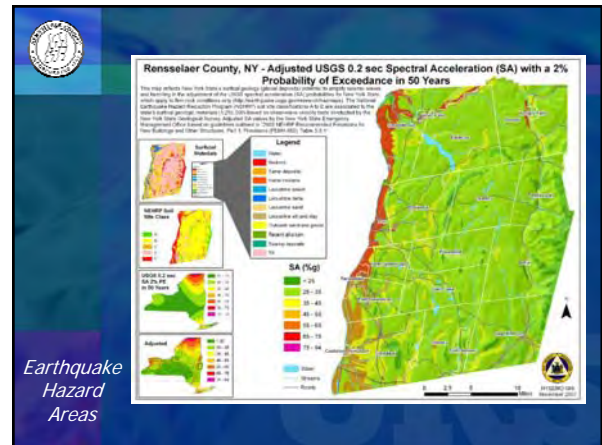
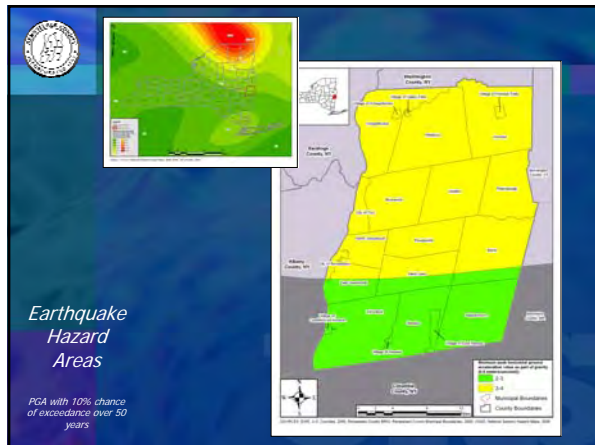
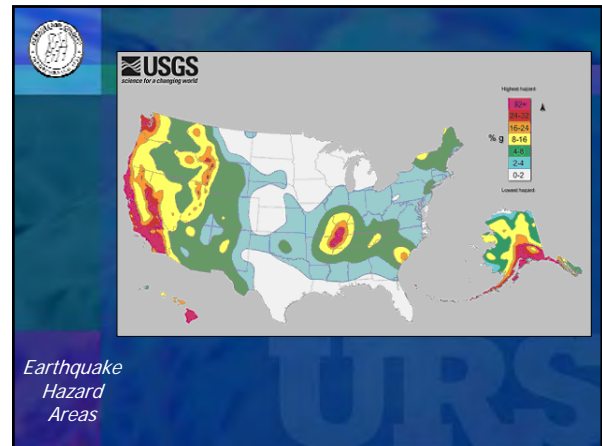
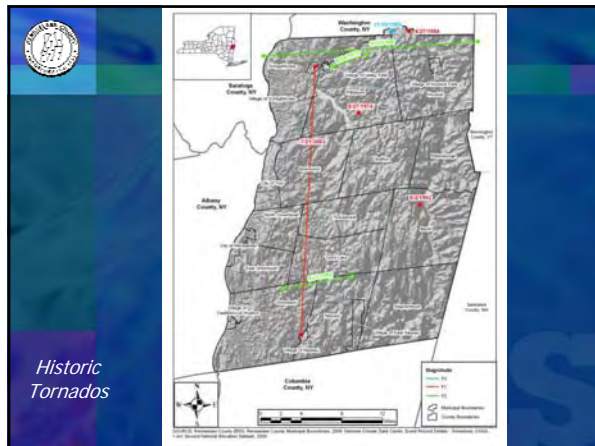
High Hazard Dams (NYSDEC):
A dam failure may result in widespread or serious damage to home(s); damage to main highways, industrial or commercial buildings, railroads, and/or important utilities, including water supply, sewage treatment, fuel, power, cable or telephone infrastructure; or substantial environmental damage; such that the loss of human life or widespread substantial economic loss is likely.





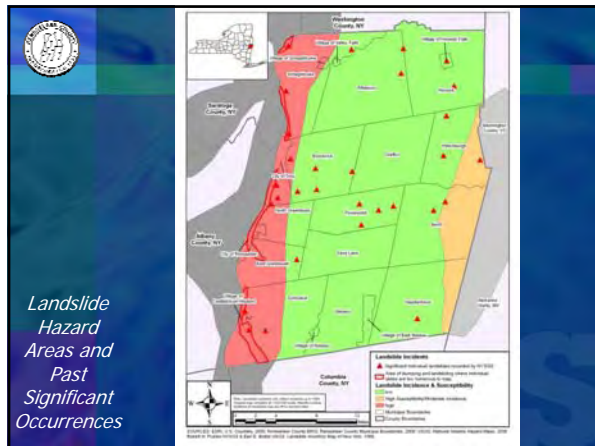
Estimated Potential Exposure of Improved Property to Dam Failure (Source: NYSDEC, Seneca County GIS)			
Bradley Lake Dam			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
City of Troy	\$4,097,481,403	\$60,630,486	1.5%
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
City of Troy	\$4,097,481,403	\$79,091,299	.4%
Martin Dunham Reservoir Dam			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Oriskany	\$166,142,003	\$1,483,928	0.9%
Town of Porterfield	\$115,226,879	\$4,233,064	3.7%
Town of Brantford	\$933,076,250	\$64,222,783	6.9%
City of Troy	\$4,097,481,403	\$547,727,205	13.4%
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Oriskany	\$166,142,003	\$164,811	0.1%
Second Pond Dam			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Oriskany	\$166,142,003	\$1,226,164	0.7%
Long Pond Dam			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Oriskany	\$166,142,003	\$1,317,225	0.8%
Shenandoah and Schaghticoke Dams			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Porterfield	\$126,957,020	\$3,403,113	2.7%
Town of Schaghticoke	\$193,627,712	\$15,337,582	7.9%
Village of Schaghticoke	\$48,215,342	\$7,229,737	14.9%
Village of Valley Falls	\$14,923,624	\$1,484,663	9.9%
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Schaghticoke	\$193,627,712	\$7,492,302	3.9%

Note: Exposure has been estimated only for the individuals based data affecting Seneca County for which adequate inundation mapping was readily available.



Earthquake Magnitude/Intensity Comparison				
PGA	Magnitude	Intensity	Perceived Shaking	Potential Damage
< 0.17	1.0 - 3.0	I	Not Felt	None
0.17 - 1.4	3.0 - 3.9	II - III	Weak	None
1.4 - 9.2	4.0 - 4.9	IV - V	IV - Light V - Moderate	IV - None V - Very Light
9.2 - 34	5.0 - 5.9	VI - VII	VI Strong VII Very Strong	VI Light VII Moderate
34 - 124	6.0 - 6.9	VIII - IX	VIII Severe IX Violent	VIII Moderate/Heavy IX Heavy
> 124	7.0 and higher	X and higher	Extreme	Very Heavy

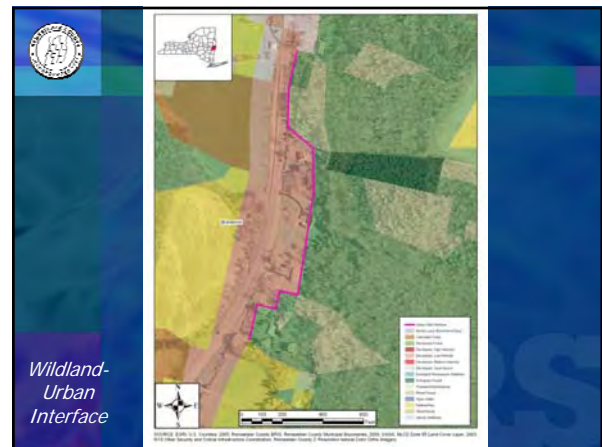
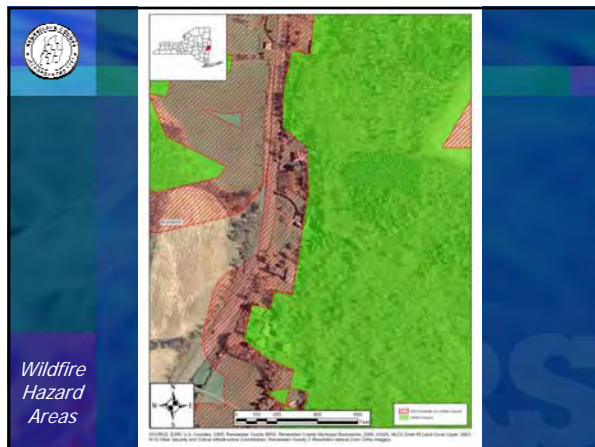
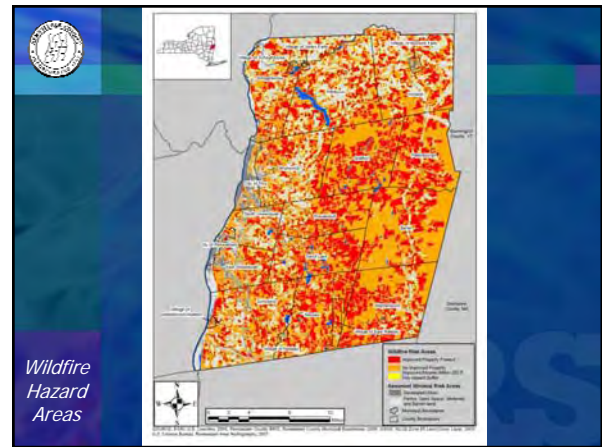
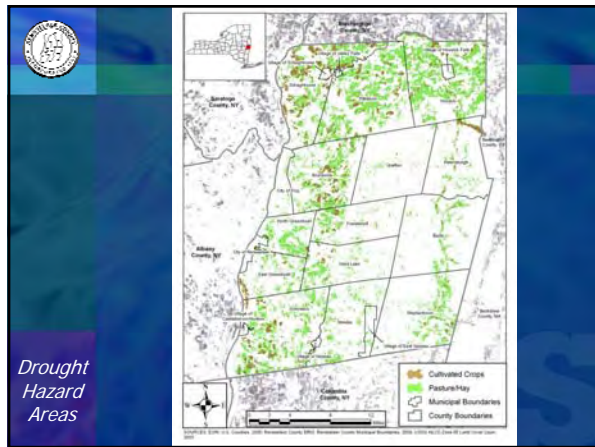
Rensselaer County Earthquake Hazard: Adjusted USGS 0.2 Sec Spectral Acceleration With a 2% Probability of Exceedance over 50 Years - Improved Property (Source: NYSDMNY Geological Survey)									
Municipality	Total Improved Property	SA (mg) 25-45		SA (mg) 55-65		SA (mg) 65-75		%	%
		Improved Property	%	Improved Property	%	Improved Property	%		
Berlin, Town of	\$141,460,296	\$24,432,411	17%	\$0	0%	\$0	0%		
Braunswick, Town of	\$935,076,250	\$310,277,134	33%	\$0	0%	\$6,682,959	1%		
Carlton-on-Hudson, Village of	\$173,215,901	\$1,467,452	0%	\$152,402,387	88%	\$0	0%		
East Greenbush, Town of	\$1,478,335,900	\$324,395,738	22%	\$287,266,101	19%	\$751,335	0%		
East Henrieville, Village of	\$56,635,244	\$15,971,607	28%	\$637,927	1%	\$0	0%		
Grafton, Town of	\$160,142,003	\$84,560	0%	\$0	0%	\$0	0%		
Honerk, Town of	\$276,325,323	\$65,399,892	24%	\$0	0%	\$1,289,215	0%		
Honerk Falls, Village of	\$335,304,980	\$171,983,884	51%	\$0	0%	\$11,437,740	3%		
Marina, Town of	\$207,267,186	\$44,390,472	21%	\$4,344,384	2%	\$0	0%		
Marina, Village of	\$101,813,517	\$101,245,734	99%	\$0	0%	\$0	0%		
North Greenbush, Town of	\$1,126,165,100	\$354,275,101	31%	\$22,703,243	2%	\$184,728,819	16%		
Pittsford, Town of	\$85,588,579	\$7,626,964	10%	\$0	0%	\$0	0%		
Portville, Town of	\$294,037,000	\$54,111,105	18%	\$0	0%	\$3,125,919	1%		
Portville, City of	\$11,524,679	\$7,638,547	66%	\$0	0%	\$0	0%		
Rensselaer, City of	\$592,411,152	\$3,827,501	1%	\$213,414,202	43%	\$104,975,930	58%		
Swadlow, Town of	\$618,791,110	\$176,714,228	29%	\$0	0%	\$0	0%		
Schaghticoke, Town of	\$393,627,712	\$51,271,879	13%	\$0	0%	\$75,555,781	19%		
Schaghticoke, Village of	\$40,255,242	\$0	0%	\$0	0%	\$18,735,449	39%		
Schoharie, Town of	\$946,793,002	\$329,735,681	35%	\$117,344,979	14%	\$0	0%		
Stephentown, Town of	\$187,025,080	\$1,483,850	1%	\$17,672,782	10%	\$0	0%		
Troy, City of	\$4,097,401,405	\$343,157,608	8%	\$0	0%	\$3,179,819,227	78%		
Valley Falls, Village of	\$34,953,624	\$0	0%	\$0	0%	\$4,207	0%		
Cherry Road	\$12,632,147,815	\$1,505,101,998	20%	\$816,286,792	7%	\$3,603,403,287	27%		



Landslide Hazard Areas

Landslide Risk by Municipality

Municipality	Total Area (Acres)	Total Improved Value	High Incidence		High Susceptibility/Moderate Incidence	
			Area (Acres)	%	Area (Acres)	%
Beacon, Town of	38,156	\$161,460,596	0	0%	0	0%
Barnesville, Town of	29,234	\$93,557,620	1,189	0%	15,774	4%
Canton-on-Hudson, Village of	533	\$173,261,901	533	100%	0	0%
East Greenbush, Town of	15,713	\$1,478,555,900	12,208	78%	\$1,422,462,069	96%
East Haverhill, Village of	3,031	\$36,635,844	0	0%	0	0%
Chatham, Town of	29,706	\$140,142,003	0	0%	0	0%
Hornell, Town of	29,344	\$276,525,323	0	0%	0	0%
Hornell Falls, Village of	950	\$335,324,980	0	0%	0	0%
Haverhill, Town of	25,597	\$207,267,186	0	0%	0	0%
Haverhill, Village of	442	\$131,302,537	0	0%	0	0%
North Greenbush, Town of	12,183	\$1,126,168,100	6,026	50%	\$767,789,236	68%
Petersburgh, Town of	26,632	\$8,588,579	0	0%	5,916	22%
Pittsford, Town of	40,236	\$296,607,628	0	0%	0	0%
Pontauk, Town of	20,732	\$15,226,879	0	0%	0	0%
Rensselaer, City of	2,202	\$127,461,852	2,202	100%	\$127,461,845	100%
Sand Lake, Town of	23,038	\$618,731,110	0	0%	0	0%
Schoharie, Town of	13,507	\$393,627,782	22,281	49%	\$103,376,307	77%
Schoharie, Village of	640	\$48,285,342	474	74%	\$44,403,730	92%
Schoharie, Town of	46,243	\$146,718,002	23,034	50%	\$51,241,575	41%
Stephentown, Town of	27,280	\$137,625,088	0	0%	6,051	2%
Town of	7,056	\$4,097,481,405	6,992	99%	\$4,087,481,400	100%
Valley Falls, Village of	307	\$24,933,624	0	0%	0	0%
County Totals	425,915	\$12,472,183,925	75,970	18%	\$8,066,599,592	65%



Wildfire Hazard Areas							
Exposure to Wildfire Risk in Remondure County							
Municipality	Urban-Wildland Interface (Miles)	Wildfire Risk Zones with no Improved Property (Acres)	Wildfire Risk Zones with Improved Property (Acres)	Total Municipal Area (Acres)	Wildfire Risk Zones (%)	Total Value of Improvements in Municipal Areas	Improved Property Value Vulnerable to Wildfire*
Berlin, Town of	6.1	15,119	12,255	38,194	96%	\$141,460,296	\$132,903,665
Bremers, Town of	43.8	3,330	13,014	28,284	72%	\$933,076,230	\$551,284,456
Carlisle, Village of	4.6	40	312	332	67%	\$173,218,991	\$175,921,469
East Greenbush, Town of	38.8	4,587	4,544	15,313	69%	\$1,415,335,000	\$837,889,874
East Nassau, Village of	2.5	1,201	1,363	3,051	97%	\$166,333,844	\$114,530,817
Oran, Town of	4.2	13,041	13,540	29,796	96%	\$166,142,003	\$155,527,946
Roseton, Town of	19.1	9,517	13,145	39,364	72%	\$276,323,321	\$199,204,443
Roseton Falls, Village of	8.4	132	378	850	96%	\$135,334,930	\$127,832,334
Warren, Town of	11.0	5,388	14,611	25,997	96%	\$207,287,186	\$177,774,978
Warren, Village of	3.6	103	319	462	72%	\$151,813,537	\$143,586,915
North Greenbush, Town of	33.1	3,401	4,404	12,183	65%	\$1,126,168,100	\$591,383,707
Petersburgh, Town of	6.1	12,533	12,424	26,682	94%	\$65,588,579	\$57,492,364
Patterson, Town of	24.1	9,110	20,317	46,254	72%	\$266,077,030	\$110,109,135
Patterson, Town of	26.1	7,091	10,708	26,212	96%	\$13,228,579	\$10,154,815
Remondure, City of	2.7	364	120	2,202	31%	\$127,481,832	\$137,344,492
Smith Lake, Town of	40.1	1,261	13,213	12,013	96%	\$678,731,110	\$511,631,140
Schaghticoke, Town of	37.3	1,440	14,461	32,507	67%	\$191,627,712	\$264,461,393
Schaghticoke, Village of	4.1	112	154	466	72%	\$46,315,342	\$32,146,874
Schoharie, Town of	71.0	11,208	17,207	46,243	72%	\$6,761,600	\$613,378,741
Stephentown, Town of	18.0	13,241	17,377	37,210	93%	\$117,023,080	\$159,778,110
Top, City of	14.8	1,648	1,218	1,054	32%	\$4,071,461,400	\$100,860,981
Valley Falls, Village of	1.6	100	68	307	64%	\$24,913,624	\$12,789,945
County Totals	413.8	149,447	194,126	412,915	67%	\$12,435,181,912	\$10,675,405,591

What we need from you:

- Statement of Authority to Participate
- Wish List Info/Data/Documents
- Hazard ID Questionnaire
- Land Uses and Development Trends Questionnaire
- Capability Assessment Questionnaire
- Outreach to the Public and Other Stakeholders


Hazard Mitigation: Recovery With Foresight



► "The world we have created today as a result of our thinking thus far has problems which cannot be solved by thinking the way we thought when we created them."

Albert Einstein

Questions and Answers



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Our Commitment:
A FEMA-Approved Plan



Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project

Question and Answer Session – November 1, 2010

Agenda

- Welcome & Opening Remarks í í í í í í í í í í í í í í í í *Kelly Paslow, Director, RCBPS*
- Current Status of Participation í í .í í í í í í í í í í í í *Kelly Paslow, Director, RCBPS*
- RAID Q&A í *Anna Foley, URS*
- Mitigation Action Items Tip Sheet.....*Anna Foley, URS*
- To-Do Actions for Jurisdictions í *Anna Foley, URS*
- Assistance with Completion of Forms/Questionnaires/Etc. Requested To-Date í í ...í ...*All*
- Closing Remarks í .í *Kelly Paslow, Director, RCBPS*
- Adjourn





Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project
Question & Answer Session on the R.A.I.D. - November 1, 2010 (2-4 pm)
Rensselaer County Government Center, 1600 Seventh Avenue, Troy, NY 12180 in Conference Room A

P.1/2

Last Name	First Name	Representing	Email Address	Phone
Russell	Robert	Town of Pittsford	Pittsford@pittsford.org	518-253-8691
Bonestel	Wayne	Rensselaer County	wbonestel@rensco.com	518-283-0973
TELISKA	JOE	"	jteliska@rensco.com	
Gallone	Scott	Rensselaer County	sgallone@rensco.com	518-283-1105
Rounds	Burton	Town of Sand Lake		
CARBONI	JOHN	CITY OF TROY	JOHN.CARBONI@TROY.NY.GOV	518 376 3747
Wheland	Chris	City of Troy	Chris.Wheland@Troy.NY.GOV	518 369-3259
HENRICKSON	ROBERT	Village of ENNISSA	Robert@Ennis.net	774-0289
Kirchner	Alison	Town of Grafton	grafton-supervisor@verizon.net	279-3565
Crowell	Sarah	City of Rensselaer	Sarah.Crowell@rensco.ny.gov	465-1693
Saville	Richard	Village of Castleton-on-Hudson	brswe2004ras@verizon.net	518-732-2983
Ashworth	Jo	Town of North Greenbush	ashworth@townofng.com	518-283-5313
Jonathan Grabel	Jonathan	Town of Nassau Rensselaer County	jgoebel@rensco.com	518-266-7678
Foley	Anna	URS	anna-foley@urscorp.com	518-973-785-0700



Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project
Question & Answer Session on the R.A.I.D. – November 1, 2010 (2-4 pm)
Rensselaer County Government Center, 1600 Seventh Avenue, Troy, NY 12180 in Conference Room A

P.2/2

Last Name	First Name	Representing	Email Address	Phone
Turner	RAY	SAND LAKE	RET@NYCAP.ORG	674-2026
Fuda	Nadine	Town of Schoharie	Nadine.fuda@schodack.org	477-7938
Holmes	Kens	Town of Schoharie	kholmes12@nycap.ny.gov	766-4000
Van Deusen	Margaret	V. of Nassau	NETERK@NYCAP.ORG	766-3044 x2
SEVERANCE	ROBERT	V. OF NASSAU	ROBERT.SEVERANCE@US.ARMY.MIL	813-3337 C
Fisette	Tim	Village of Saratoga	SARAH@NYCAP.ORG	753 6100
Jabour	Joc	Town of Brunswick	Jabour@townofbrunswick.org	279-3461 x100
Locavita	Bob Mark	Renss Co	mark25a@GMAIL.COM	527-0409
Polow	Kelly	Rensco.	KPolow@RENSCO.COM	266-7676
Jordan	Bruce	NYSOEM	Bjordan@DHSES.ny.gov	793-6646
vanderkade	Linda	Rensselaer County Planning	Lvanderkade@RENSCO.COM	270-2974
CHURCH	TIMOTHY	TOWN OF PETERSBURGH	TIM5881@NETZERO.COM	658-3453
H. Weber	Janet	Village of Valley Falls	JWEBER6131@AOL.COM	753-6230
Hansen	Verna	Town of Pittstown	VH50@wildblue.net	753-6216

Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project

Question & Answer Session
on the
Risk Assessment Interim Deliverable

November 1, 2010

Rensselaer County Government Center
1600 Seventh Avenue, Troy
Conference Room A



Today's Agenda

- Welcome and Opening Remarks..... Kelly Paslow, RCBPS
- Current Status of Participation..... Kelly Paslow, RCBPS
- RAID Q&A..... Anna Foley, URS
- Mitigation Actions Tip Sheet..... Anna Foley, URS
- To-Do Actions for Jurisdictions..... Anna Foley, URS
- Assistance with Completion of Worksheets.....All
- Closing Remarks..... Kelly Paslow, RCBPS
- Adjourn

Current Status of Participation

[illegible]RISK ASSESSMENT INTERIM DELIVERABLE
OCTOBER 2010

Prepared by:
URS



This Risk Assessment Interim Deliverable includes the following working draft sections of the Draft Plan:

- Section 2 – Identification of Potential Hazards
- Section 3 – Risk Assessment
- 3a. Hazard Profiles
- 3b. Vulnerability Assessment - Identification and Characterization of Assets
- 3c. Vulnerability Assessment - Damage Estimates
- Section 5 – Mitigation Goals
- Section 6 – Range of Alternative Mitigation Actions to Consider
- Section 9 – Plan Maintenance
- Section 10 – For More Information




The remaining sections (1, 3d, 4 and 7-8, as listed below, as well as various appendices) require various worksheet and questionnaire responses from the participating jurisdictions and will appear in the Draft Plan which is targeted for release in December 2010.

- Section 1 – Introduction
Section 3d – Land Uses and Development Trends
Section 4 – Capabilities and Resources
Section 7 – Action Item Evaluation and Prioritization
Section 8 – Implementation Strategy

Risk Assessment Interim Deliverable (RAID)


Distributed to CPG via email 10/20/10

- Questions?
- Comments?
- Feedback?



Mitigation Action Items Tip Sheet

(included in RAID Section 6)



Project Timeline

- Kickoff Meeting: July 2010
- Plan Development: Ongoing
- Local Feedback: Ongoing
- Risk Assessment Interim Deliverable: October 2010
- Risk Assessment Q&A Session: November 2010
- Mitigation Strategy Working Session: TBD (late Nov)
- Draft Plan to CPG: December 2010
- Draft Plan to NYSEMO: January 2011

Past due/ongoing CPG member items:

- Wish List Info/Data/Documents
- Hazard ID Questionnaire
- Land Uses and Development Trends Questionnaire
- Capability Assessment Questionnaire
- Outreach to the Public and Other Stakeholders

Assistance with completion of worksheets?


Upcoming CPG member items:

- Worksheets to be completed by each municipality at the upcoming Mitigation Strategy Working Session (next meeting, late November or early December)


- Mitigation Options Survey
- Prioritization Worksheet (STAPLEE)
- Implementation Strategy Worksheet
- NFIP Compliance Actions Worksheet

NFIP Compliance Actions Worksheet


(excerpt)




Name of Your Jurisdiction	Adoption Date of your Current Floodplain Management Ordinance	Position Title of Your Jurisdiction's Designated Floodplain Administrator	Number of Municipal Staff with Roles in Enforcement of Floodplain Management Ordinance
Please give a brief description of activities currently undertaken by your municipality to enforce your floodplain management ordinance:			




Local Floodplain Administrators and Floodplain Management Ordinances



- Designating a Local Floodplain Administrator and adopting a Local Floodplain Management Ordinance are REQUIREMENTS for entry into FEMA's National Flood Insurance Program (NFIP).
- FEMA's NFIP Community Status Book lists every municipality in the County as participating in the NFIP.
- At some point in the past, every municipality in the county provided FEMA with their ordinance and the local administrator.



Questions and Answers




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 anna_foley@urscorp.com

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Our Commitment:
A FEMA-Approved Plan


End of show



Hazard Identification Chapter of RAID *Completed*

- Evaluation of a full range of natural hazards (23)
 - Hazards selected for further analysis and reasons why (13)
 - Hazards not selected and reasons why not (10)






Hazard Identification Chapter of RAID *Completed*

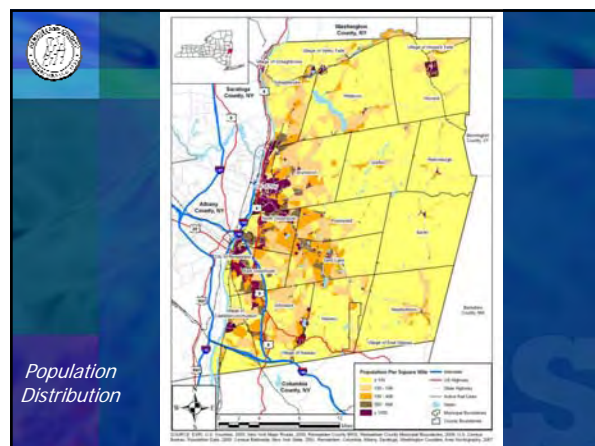
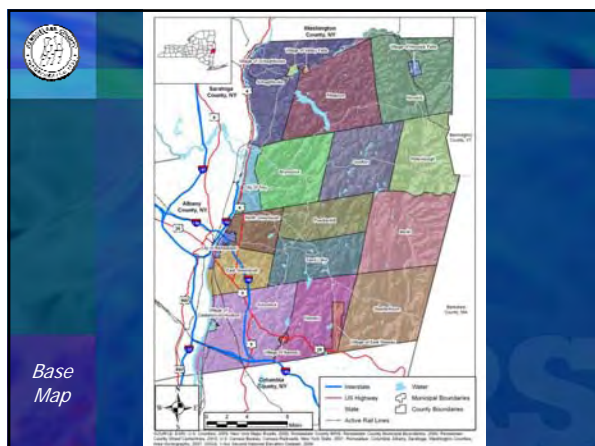
23 hazards evaluated
 13 identified as "significant" for further evaluation

■ Extreme Temperatures	■ Drought
■ Extreme Wind	■ Flood
■ Hurricane and Tropical Storms	■ Ice Jams
■ Lightning	■ Earthquakes
■ Tornadoes	■ Landslides
■ Winter Storms	■ Wildfires
■ Dam Failure	



Hazard Profiles Chapter of RAID *Completed*

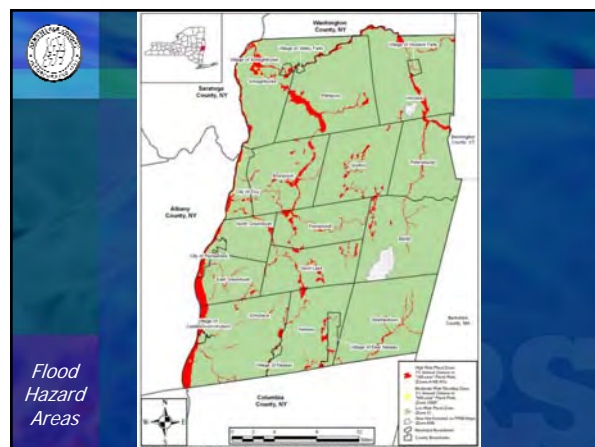
- Description of hazard
- Location of hazard area
- Extent (magnitude or severity)
- Previous occurrences
- Probability/likelihood of future occurrences



Distribution of Profiled Hazards

**Table 3a.1
Summary of Profiled Hazards by Municipality**

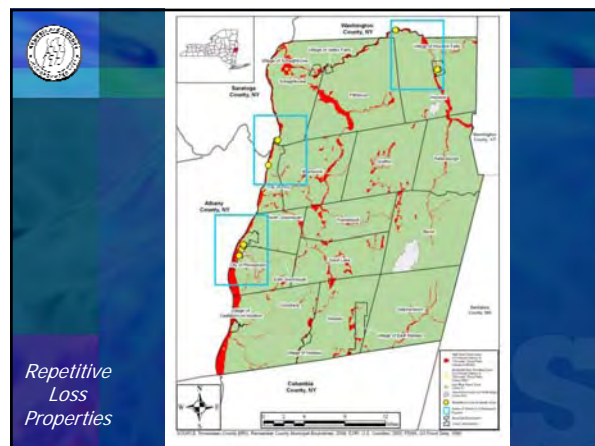
Jurisdiction	Extreme Temperature	Extreme Wind	Hurricane and Tropical Storms	Tornado	Lightning	Winter Storms	Downed Power Lines	Drought	Flood	Ice/Animals	Earthquake	Landslide	Wildfire
Rensselaer County of													
Berlin, Town of													
Braunswick, Town of													
Castleton-on-Hudson, Village of													
East Greenbush, Town of													
East Nassau, Village of													
Orangetown, Town of													
Hosack, Town of													
Hosack Falls, Village of													
Nassau, Town of													
North Greenbush, Town of													
Petersburgh, Town of													
Pittsford, Town of													
Township, Town of													
Rensselaer, City of													
Sand Lake, Town of													
Schaghticoke, Town of													
Schaghticoke, Village of													
Schoharie, Town of													
Stephentown, Town of													
Troy, City of													
Valley Falls, Village of													



Flood Hazard Areas

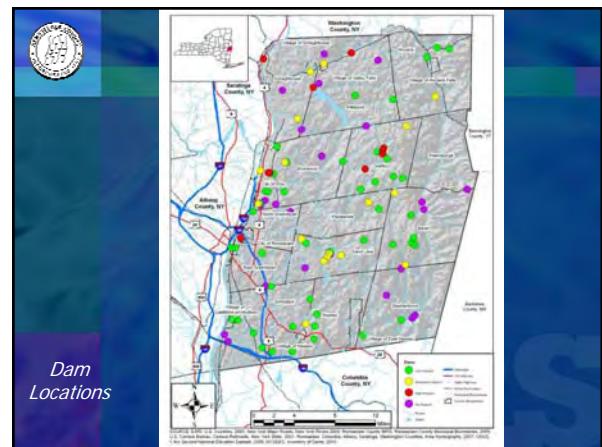
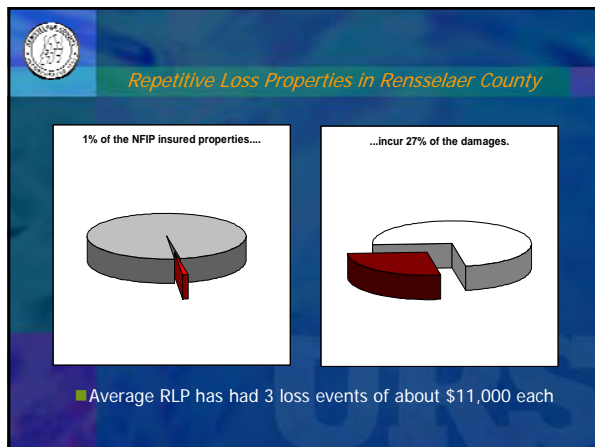
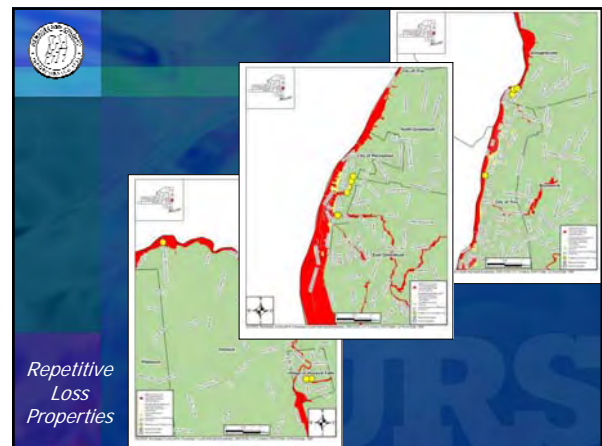
Summary of FEMA Q5 Flood Data by Municipality: Improved Property in Hazard Areas

Municipality	Total Improved Property Value	Improved Property in High Flood Risk Area		Improved Property in Moderate Flood Risk Area		Improved Property in Low Flood Risk Area	
		A, AE	2500	A, AE	2500	A, AE	2500
Berlin, Town of	\$161,400,206	\$7,360,093	\$0	\$1,510,140	2%	0%	97%
Braunswick, Town of	\$915,076,230	\$41,246,232	\$666,131	\$893,163,331	4%	0.1%	96%
Castleton-on-Hudson, Village of	\$173,218,001	\$42,107,736	\$2,043,151	\$129,067,192	24%	1%	73%
East Greenbush, Town of	\$1,478,515,000	\$40,453,311	\$668,755	\$1,437,388,512	2%	0.04%	97%
East Nassau, Village of	\$36,033,844	\$1,274,931	\$403,049	\$35,546,862	10%	1%	89%
Orangetown, Town of	\$160,142,003	\$4,706,800	\$0	\$155,435,203	3%	0%	97%
Hosack, Town of	\$774,323,323	\$6,462,710	\$0	\$767,860,613	0%	0%	97%
Hosack Falls, Village of	\$133,134,000	\$16,009,311	\$0	\$117,124,689	3%	0%	97%
Nassau, Town of	\$207,267,186	\$6,404,721	\$177,281	\$200,134,141	3%	0.3%	97%
Nassau, Village of	\$101,612,537	\$6,888,164	\$0	\$94,724,373	7%	0%	93%
North Greenbush, Town of	\$1,136,165,100	\$54,138,043	\$31,248,413	\$1,081,768,744	3%	7%	90%
Petersburgh, Town of	\$83,588,579	\$2,192,023	\$0	\$81,396,556	3%	0%	97%
Pittsford, Town of	\$294,057,020	\$9,976,431	\$17,128	\$284,073,647	3%	0.02%	97%
Township, Town of	\$11,126,879	\$1,127,333	\$1,032,387	\$10,094,492	3%	1%	96%
Rensselaer, City of	\$227,463,832	\$123,612,734	\$20,943,326	\$106,507,580	23%	2%	71%
Sand Lake, Town of	\$618,731,110	\$33,047,439	\$2,842,158	\$584,841,513	5%	0.3%	94%
Schaghticoke, Town of	\$193,427,712	\$16,912,444	\$14,796,010	\$177,631,258	4%	4%	92%
Schaghticoke, Village of	\$48,285,342	\$995,339	\$25,002	\$47,289,901	2%	0.1%	98%
Schoharie, Town of	\$146,785,002	\$18,401,402	\$2,232,877	\$128,351,725	3%	0.3%	96%
Stephentown, Town of	\$117,253,080	\$3,411,173	\$444,271	\$113,841,908	3%	0.2%	97%
Troy, City of	\$6,097,401,403	\$23,453,130	\$193,613,360	\$5,873,737,913	3%	7%	87%
Valley Falls, Village of	\$24,933,624	\$143,986	\$7,662	\$24,789,656	3%	0.03%	97%
Rensselaer County Total	\$12,432,182,862	\$732,872,538	\$1,794,493,892	\$11,644,616,432	6%	2.2%	91%



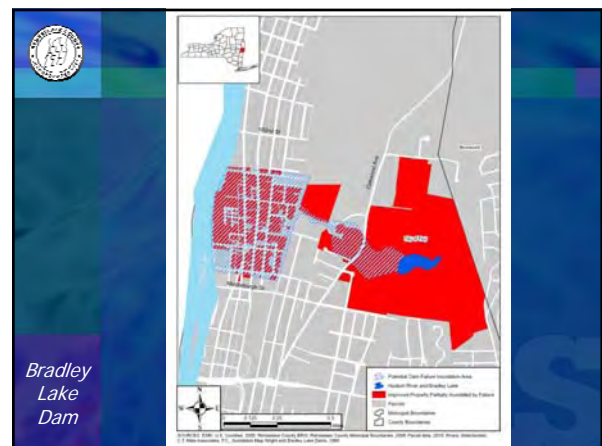
Repetitive Loss Properties:

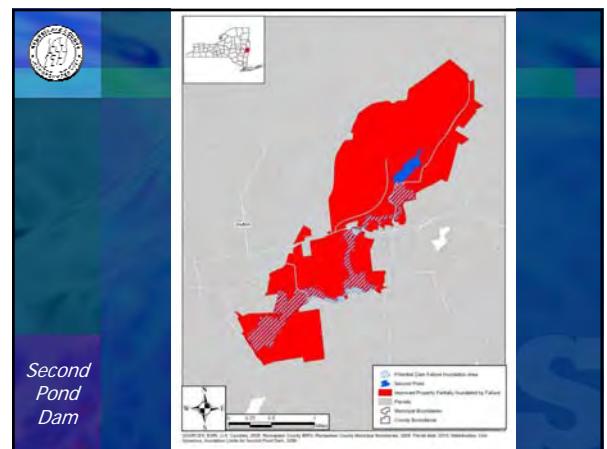
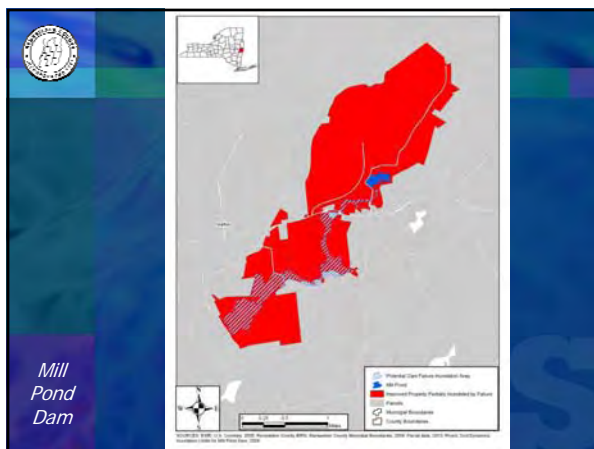
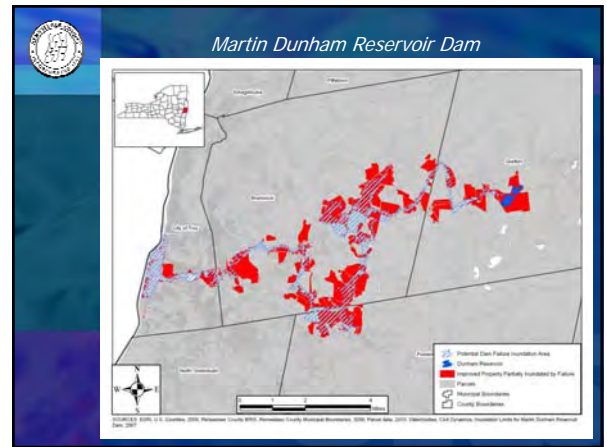
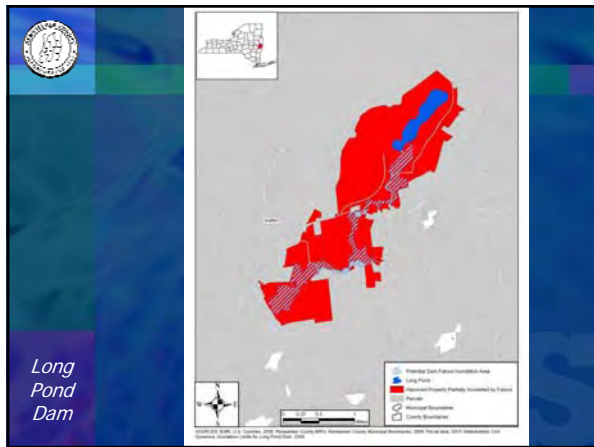
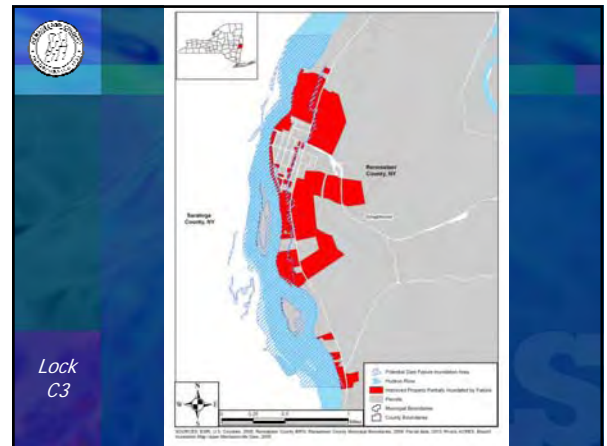
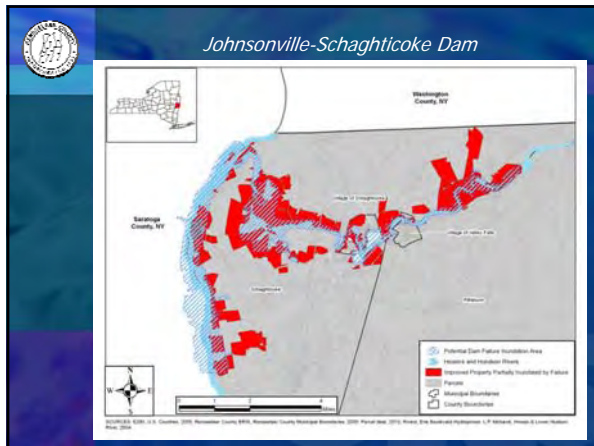
- Two or more losses
- Of at least \$1,000 each
- In any rolling 10-year window since community's entry into NFIP

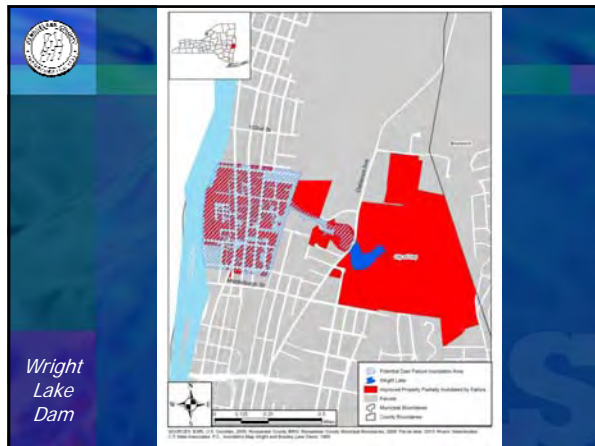


Dam Failure

High Hazard Dams (NYSDEC):
A dam failure may result in widespread or serious damage to home(s); damage to main highways, industrial or commercial buildings, railroads, and/or important utilities, including water supply, sewage treatment, fuel, power, cable or telephone infrastructure; or substantial environmental damage; such that the loss of human life or widespread substantial economic loss is likely.

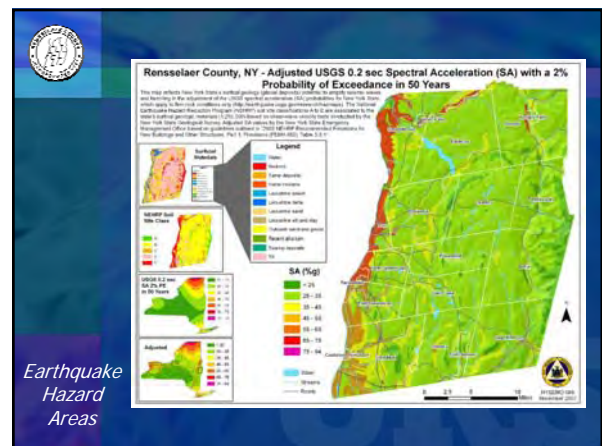
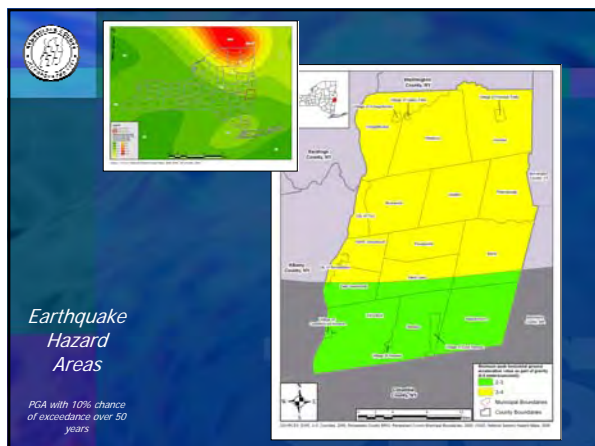
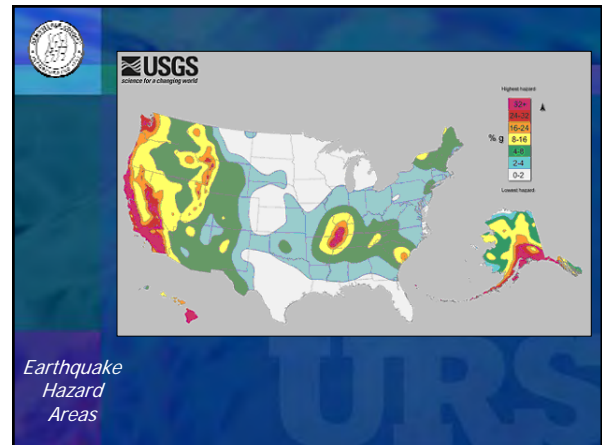
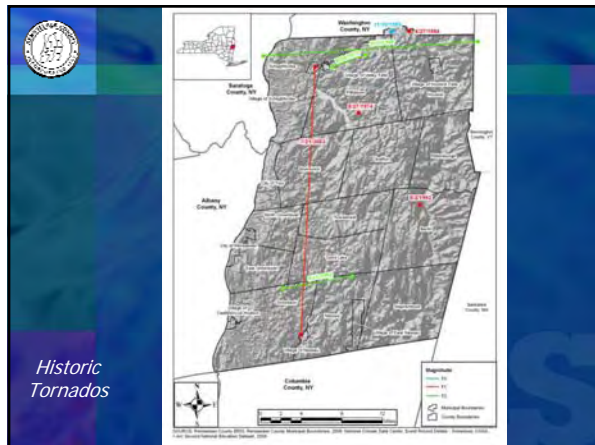






Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
City of Troy	\$4,097,481,405	\$65,630,488	1.6%
Wright Lake Dam			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
City of Troy	\$4,097,481,405	\$59,091,299	1.4%
Martin Duskam Reservoir Dam			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Okauchie	\$168,142,003	\$1,403,328	0.8%
Town of Fonda	\$113,228,879	\$4,233,084	3.7%
Town of Brunswick	\$933,076,120	\$64,222,733	6.9%
City of Troy	\$4,097,481,405	\$147,727,255	3.6%
Mill Pond Dam			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Okauchie	\$168,142,003	\$168,811	0.1%
Second Pond Dam			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Okauchie	\$168,142,003	\$1,226,164	0.7%
Long Pond Dam			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Okauchie	\$168,142,003	\$1,317,225	0.8%
Johnsonville and Schaghticoke Dams			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Fonda	\$104,077,020	\$1,403,113	1.3%
Town of Schaghticoke	\$103,627,712	\$1,379,582	1.3%
Village of Schaghticoke	\$48,233,342	\$1,226,733	2.5%
Village of Valley Falls	\$14,913,214	\$1,484,683	10.0%
Leak C-3			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Schaghticoke	\$103,627,712	\$7,492,302	7.2%

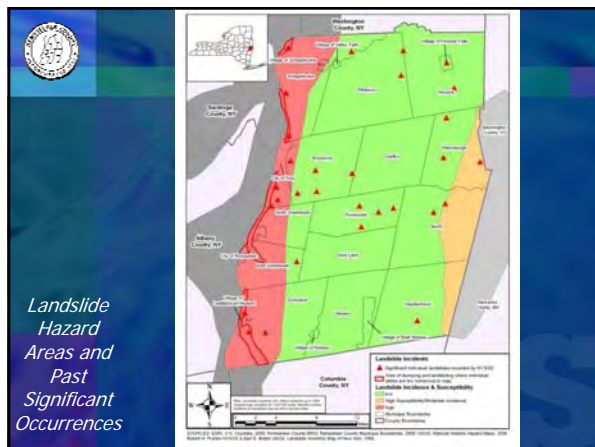
Note: Exposure has been estimated only for the hydrologically based dams affecting Rensselaer County for which adequate inundation mapping was readily available.



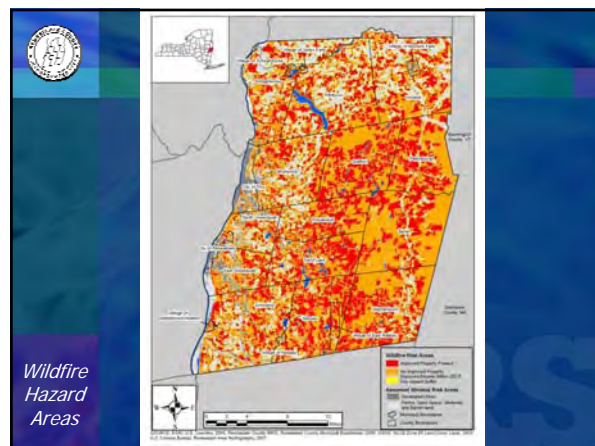
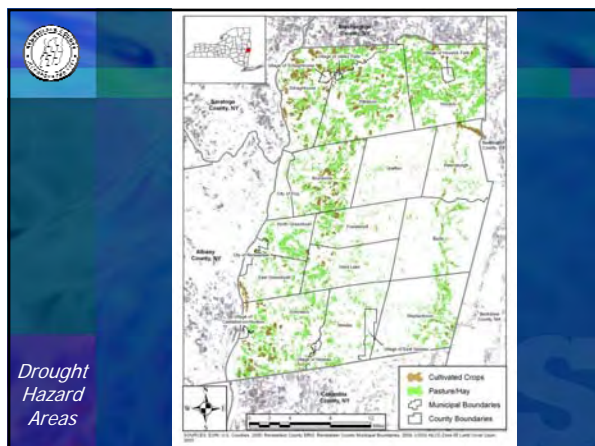
Earthquake Magnitude/Intensity Comparison				
PGA	Magnitude	Intensity	Perceived Shaking	Potential Damage
< 0.17	1.0 - 3.0	I	Not Felt	None
0.17 - 1.4	3.0 - 3.9	II - III	Weak	None
1.4 - 9.2	4.0 - 4.9	IV - V	IV. Light V. Moderate	IV. None V. Very Light
9.2 - 34	5.0 - 5.9	VI - VII	VI Strong VII Very Strong	VI Light VII Moderate
34 - 124	6.0 - 6.9	VIII - IX	VIII Severe IX Violent	VIII Moderate Heavy IX Heavy
> 124	7.0 and higher	X and higher	Extreme	Very Heavy

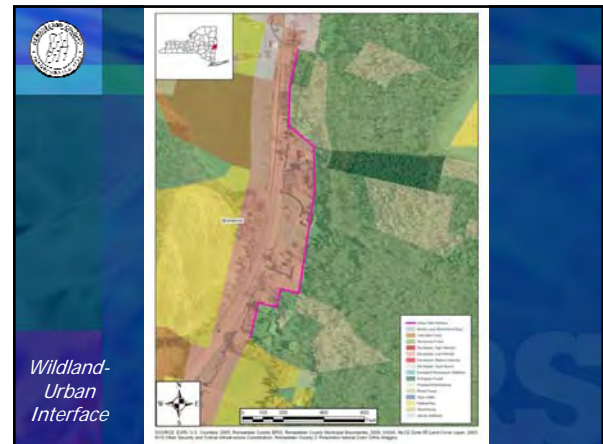
Remond County Earthquake Hazard: Adjusted USGS 0.2 Sec Spectral Acceleration With a 2% Probability of Exceedance over 50 Years - Improved Property (Source: NCEM/USGS Geological Survey)									
Municipality	Total Improved Property	SA (Mag) 25-45		SA (Mag) 55-65		SA (Mag) 65-75			
		Improved Property	%	Improved Property	%	Improved Property	%		
Berlin, Town of	\$161,460,296	\$24,423,411	15%	\$0	0%	\$0	0%		
Bromwich, Town of	\$935,076,230	\$310,277,134	33%	\$0	0%	\$6,682,059	1%		
Carlleton-on-Hudson, Village of	\$173,218,901	\$1,467,452	0%	\$152,402,387	88%	\$0	0%		
East Queensbury, Town of	\$1,478,335,000	\$324,393,739	22%	\$217,266,121	15%	\$731,033	0%		
East Warren, Village of	\$26,635,844	\$13,973,607	52%	\$637,027	2%	\$0	0%		
Oranien, Town of	\$160,142,003	\$14,860	0%	\$0	0%	\$0	0%		
Hornick, Town of	\$276,323,323	\$66,199,092	24%	\$0	0%	\$17,289,215	6%		
Hornick Falls, Village of	\$335,304,980	\$173,903,884	51%	\$0	0%	\$11,457,740	3%		
Warren, Town of	\$287,267,186	\$44,590,472	15%	\$4,344,366	2%	\$0	0%		
Warren, Village of	\$101,812,137	\$101,248,334	99%	\$0	0%	\$0	0%		
North Queensbury, Town of	\$1,126,168,100	\$334,273,303	31%	\$22,703,248	2%	\$184,728,119	16%		
Patterson, Town of	\$83,588,579	\$7,620,964	9%	\$0	0%	\$0	0%		
Patterson, Village of	\$296,037,020	\$24,111,305	8%	\$0	0%	\$3,123,919	1%		
Frontenack, Town of	\$21,526,679	\$7,620,964	35%	\$0	0%	\$0	0%		
Remond, City of	\$522,411,552	\$3,923,301	1%	\$21,641,402	4%	\$304,975,930	58%		
Steele, Town of	\$618,791,110	\$176,714,228	29%	\$0	0%	\$0	0%		
Schaghticoke, Town of	\$293,627,712	\$1,271,879	0%	\$0	0%	\$75,055,781	26%		
Schaghticoke, Village of	\$48,255,342	\$0	0%	\$0	0%	\$18,735,449	39%		
Schaghticoke, Town of	\$646,788,002	\$329,733,681	51%	\$17,344,739	3%	\$0	0%		
Stapleton, Town of	\$187,033,080	\$11,483,930	6%	\$17,672,782	9%	\$0	0%		
Troy, City of	\$4,097,481,405	\$343,157,608	8%	\$0	0%	\$3,179,819,227	78%		
Valley Falls, Village of	\$24,951,634	\$0	0%	\$0	0%	\$4,207	0%		
County Totals	\$12,437,187,925	\$2,505,101,898	20%	\$816,286,792	7%	\$8,689,430,187	71%		

Low risk SA categories (22 and 23) omitted for clarity



Landslide Hazard Areas						
Municipality	Total Area (Acres)	Total Improved Value	High Incidence		High Frequency/Moderate Incidence	
			Area (Acres)	%	Area (Acres)	%
Berlin, Town of	31,156	\$161,460,296	0	0%	15,774	48%
Bromwich, Town of	28,284	\$935,076,230	2,189	8%	0	0%
Carlleton-on-Hudson, Village of	533	\$173,218,901	533	100%	0	0%
East Queensbury, Town of	13,713	\$1,478,335,000	12,208	79%	0	0%
East Warren, Village of	3,001	\$26,635,844	0	0%	0	0%
Oranien, Town of	29,266	\$160,142,003	0	0%	0	0%
Hornick, Town of	39,364	\$276,323,323	0	0%	64	0%
Hornick Falls, Village of	950	\$335,304,980	0	0%	0	0%
Warren, Town of	25,597	\$287,267,186	0	0%	0	0%
Warren, Village of	462	\$101,812,137	0	0%	0	0%
North Queensbury, Town of	12,183	\$1,126,168,100	4,026	33%	0	0%
Patterson, Town of	26,632	\$83,588,579	0	0%	0	0%
Patterson, Village of	41,256	\$296,037,020	0	0%	0	0%
Frontenack, Town of	20,722	\$21,526,679	0	0%	0	0%
Remond, City of	4,202	\$522,411,552	2,302	100%	0	0%
Steele, Town of	23,088	\$618,791,110	0	0%	0	0%
Schaghticoke, Town of	32,587	\$329,733,681	22,281	69%	0	0%
Schaghticoke, Village of	640	\$48,255,342	474	74%	0	0%
Schaghticoke, Town of	46,243	\$646,788,002	23,084	50%	0	0%
Stapleton, Town of	37,200	\$187,033,080	0	0%	6,921	19%
Troy, City of	7,056	\$4,097,481,405	6,972	99%	0	0%
Valley Falls, Village of	387	\$24,951,634	0	0%	0	0%
County Totals	425,915	\$12,437,187,925	75,970	18%	21,682	7%





Wildfire Hazard Areas									
Exposure to Wildfire Risk in Remountable County									
Municipality	Urban Wildland Interface (Miles)	Wildfire Risk Zones with Improved Property Characteristics	Wildfire Risk Zones with Improved Property Characteristics	Total Municipal Area	Wildfire Risk Areas (%)	Total Value of Improvement in Municipal Areas	Improved Property Value in Wildfire*	Improved Property Value Vulnerable to Wildfire (%)	
Berlin, Town of	6.1	24,319	12,255	28,196	96%	\$14,463,296	\$12,803,663	82%	
Benjamin, Town of	4.0	7,730	13,214	28,214	72%	\$933,074,250	\$251,204,056	39%	
Corvallis-on-Hudson, Village of	4.6	4	362	533	6%	\$173,313,901	\$17,952,449	10%	
East Northbrook, Town of	35.5	4,507	4,523	6,346	6%	\$1,476,553,060	\$487,569,024	4%	
East Waukegan, Village of	25.5	2,961	5,563	10,931	50%	\$1,633,634,444	\$1,150,637	0%	
Harmon, Town of	4.2	15,041	13,560	29,996	96%	\$160,142,003	\$55,522,446	37%	
Hendricks, City of	10.1	5,517	18,145	34,364	72%	\$704,323,123	\$209,489,463	30%	
Hershey Park, Village of	4.8	152	278	650	96%	\$133,314,490	\$17,723,324	13%	
Harmon, City of	11.0	8,513	14,611	25,929	92%	\$207,287,136	\$177,744,336	86%	
Northbrook, Town of	11.6	3,103	482	4,042	12%	\$1,314,314,327	\$44,399,857	3%	
North Okebrook, Town of	33.1	3,401	4,064	12,810	6%	\$1,124,168,100	\$391,383,757	3%	
Pittsford, Town of	6.1	12,553	12,424	26,632	94%	\$1,585,379	\$297,356,394	91%	
Palatine, City of	24.7	9,110	20,317	42,454	72%	\$264,077,230	\$119,159,153	14%	
Peotridge, Town of	26.5	5,078	10,768	29,512	6%	\$1,126,879	\$55,544,457	4%	
Peru, City of	27	861	120	2,562	31%	\$2,481,432	\$137,344,462	30%	
Rolling Meadows, City of	46.3	7,261	12,223	21,033	36%	\$1,173,118	\$137,056,468	30%	
Schaumburg, City of	37.5	7,440	14,461	32,407	45%	\$393,627,912	\$264,363,393	67%	
Schaumburg, Village of	4.1	110	254	640	74%	\$451,242	\$12,474,374	2%	
Schweitz, Town of	11.8	11,249	17,423	39,003	92%	\$1,024,003	\$633,378,754	75%	
Schaumburg, Town of	10.6	17,243	17,377	37,210	93%	\$1,023,003	\$1,59,778,530	100%	
Tyng, City of	14.8	1,048	1,233	1,656	56%	\$499,447,402	\$1,59,778,530	100%	
Valley Park, Village of	1.6	10	98	307	64%	\$54,933,624	\$12,758,465	23%	
County Totals	413.8	149,447	184,232	423,925	64%	\$1,437,132,855	\$573,469,592	40%	



**Rensselaer County Multi-Jurisdictional
Hazard Mitigation Planning Project**

***Mitigation Strategy Working Session –
November 30, 2010 (1-4 pm)***

Agenda

- Welcome & Opening Remarks í í í í í í í í í ...*Kelly Paslow, Director, RCBPS*
- Reminders í í í í í í í í í í í í í í í í í í í ..*Anna Foley, URS*
- Any Public Comments?.....*All*
- **Mitigation Strategy Working Session*Anna Foley, URS***
 - ✚ *Mitigation Options Survey*
 - ✚ *Evaluation and Prioritization of Mitigation Actions*
 - ✚ *Developing Project Implementation Strategies*
 - ✚ *Actions for Continued Compliance with the NFIP*
- Next Steps í í í í í í í ..í í í í í í .í í í í*Anna Foley, URS*
- Questions & Answers í í í í í .í í íí í í í í í í í í í ..*All*
- Adjourn í í í .í í í í í í í í í í *Kelly Paslow, Director, RCBPS*

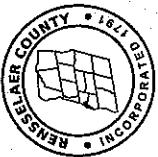




Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project
Mitigation Strategy Working Session - November 30, 2010 (1-4 pm)
Rensselaer County Government Center, 1600 Seventh Avenue, Troy, NY 12180 in Conference Room A

1 of 2

Last Name	First Name	Representing	Email Address	Phone
VanDuse	Margaret	Village of Nassau	NCLERK@NYCAP. RR.COM	766-3044 x2
FISHER	Jim	Village of Schoharie	SEAN@NYCAP. RR.COM	518-753-6100
Russell	Bob	Town of Pittsford	Pittsford Garage & Aol.com	518-753-4228
Hansen	Verna	Town of Pittsford	WH50@wildblue.net	753-6216
McCoy	Fred	Town of Nassau	Nassauhighway@earthlink.net	766-9417
Rounds	Barton	Town of Sand Lake	Super@SandLake.us	674-2026 Ext 12
vonderheide	Linda	Rensselaer/Manning	Lvonderheide@renseco.com	518-270-2921
Nadine Fuda		T/O Schoharie	Nadine.Fuda@Schoharie.org	477-7938
Holmes	Ken	T/O Schoharie	Kholmes12@nycap.rr.com	766-4000
SEVERANCE	BOB	VILLAGE OF NASSAU	ROBERT.SEVERANCE@USARMY.MIL	766-3044 x2
Weber	Janet	Village of Valley Falls	JWEBER6131@AOL.COM	753-6131
Gallen	Scott	Renss Co Highway	sgallen@renseco.com	428-6632
TELISKA	JOE	Rens. Co. Highway	jteliska@renseco.com	
CROWELL	SARAH	CITY OF RENSSELAER	SARAH.CROWELL@RENSSELAER.NY.GOV	518-465-1893



Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project
Mitigation Strategy Working Session – November 30, 2010 (1-4 pm)
Rensselaer County Government Center, 1600 Seventh Avenue, Troy, NY 12180 in Conference Room A

2 of 3


Last Name	First Name	Representing	Email Address	Phone
Turner	RAY	SAND LAKE	rci@nycap.ca.com	674-8185
Jordan	Bruce	NYSOEM	BJordan@dhses.ny.gov	793-6646
Lacivita	Mark	Renss Co BPS	mark25a@gmail.com	527-0409
Gooden	Alvie	Town of Stephentown		733-5999
Behnworth	Jo	Town of N.B.	Behnworth@townofny.com	283-5313
Mark Prens	Mark	" "	Prens@NYCAP.RR.COM	283 3921
Henrickson	Robert	VILL OF E. NASSAU	RHE@COCAUGER.COM	760 5814
Schmiger	Louis	Town of Hoosick	LSCHMIGER@ROANSKUNNOR.COM	528-4219
Wysocki	Jeffrey	Town of Hoosick	JeffWy26@AOL.COM	944-3857
Jabour	Joe	Town of Brunswick	Jjabour@townofbrunswick.org	271-3461 x100
Carlson	Jean	T/Schaghticoke	supervisor@townofschaghticoke.org	753-6915 x104
Groebel	Jonathan	Rensselaer County	jgoebel@rensco.com	266-7678
Pastor	Kelly	Renss Co BPS	KPastor@rensco.com	266-7676
KIRCHNER	ALLISON	GRAFTON		

Foley Anna VRS


 **Rensselaer County Multi-Jurisdictional
Hazard Mitigation Planning Project**

Mitigation Strategy Working Session
November 30, 2010
1-4 pm
Rensselaer County Government Center
1600 Seventh Avenue, Troy
Conference Room A




 **Today's Agenda**


- Welcome and Opening Remarks
- Reminders
- Any public comments?
- Mitigation Strategy Working Session
 - ◆ Completion of worksheets to evaluate and prioritize actions and develop implementation strategies
- Next Steps
- Questions and Answers

 **Reminders**


- Please remember to sign in
- Outreach Logs were due to URS on November 18th – please record all activities intended to alert and engage the public. Return by December 3rd.



Please add additional rows as needed and return to URS. Please Note: Only 10 rows total. All Outreach Logs must be returned by December 3rd. Please Note: Only 10 rows total. All Outreach Logs must be returned by December 3rd. Please Note: Only 10 rows total. All Outreach Logs must be returned by December 3rd.

 **Reminders**

- Previous questionnaires will still be accepted (LUDT, CA, Hazard ID) through December 3rd
- Today's worksheets will be accepted through December 15th

 **Comments so far from the Public and/or Other Stakeholders??**

- Please tell us what and from whom.
- We will incorporate into appropriate section of the plan.
- Please get back to us no later than December 3rd.

 **Mitigation Strategy Working Session**

- The Worksheets:
 1. Mitigation Options Survey
 2. Evaluation and Prioritization of Actions
 3. Documenting an Implementation Strategy
 4. NFIP Compliance Actions Worksheet



Worksheet Completion

- Mitigation strategy 'Tip Sheet' was distributed at the last meeting, and via an RCBPS email of November 16th.
- Today's worksheets were initially distributed via an RCBPS email of November 16th.
- RAID (distributed via an RCBPS email of October 20th) includes initial actions list, tip sheet, other reference material for selection of mitigation actions.
- Return today's worksheets no later than December 15th



Worksheet Completion

IMPORTANT NOTE:

If you do not complete and return the worksheets on time, FEMA will not see your municipality as having sufficiently participated and the plan will not be approved for your jurisdiction



Worksheet Completion

FEMA Requirements – apply to the County and EACH municipality on an individual basis:

- Identify and analyze a comprehensive range of projects for each hazard
- Select projects that address reducing the effects of hazards on both new and existing buildings and infrastructure – for each identified hazard
- Identify, evaluate and prioritize actions related to continued compliance with the NFIP



Worksheet Completion

FEMA Requirements (cont'd):

- Document the process and criteria used for prioritizing the projects
- Identify how each project will be implemented and administered, who will be responsible, resources for completion, targeted time frame?



Worksheet Completion

FEMA Requirements (cont'd):

- For each project, the estimated cost and documentation of cost-benefit review
- Identifiable action items for each participating jurisdiction



1. Mitigation Options Survey

- Ranking 6 categories of actions to reflect each municipality's overall local preferences
 - Preventive Measures
 - Asset Protection
 - Emergency Services
 - Structural Projects
 - Natural Resources Protection
 - Public Information

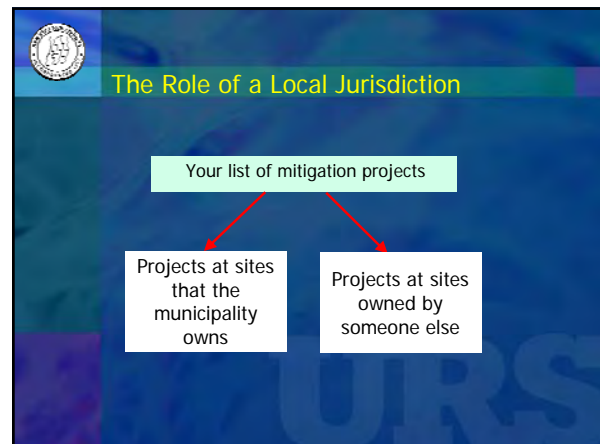
Reynolds County Multi-Jurisdictional Hazard Mitigation Planning Project
Mitigation Options Survey

Municipality: _____
Year: _____

Please rank the following generic descriptions of mitigation measures in the order that you estimate them to be most preferred by the residents of your community, with 1 = most preferred, through 6 = least preferred. Your responses will be used to help post a final ranked portion of where local preferences may tend to agree for planning with the state-wide hazard mitigation plan.

➤ Preventive measures , such as: Regulation Building codes Zoning	<input type="checkbox"/>
➤ Acquisitive measures , such as: Purchase of properties Purchase of easements Purchase of land	<input type="checkbox"/>
➤ Emergency response measures , such as: Evacuation routes and signage Shelter-in-place training Emergency response	<input type="checkbox"/>
➤ Structural projects , such as: Floodwalls Channel improvements Dredging Dams	<input type="checkbox"/>
➤ Nonstructural projects , such as: The state and local government Volunteer-based activities	<input type="checkbox"/>
➤ Public information activities , such as: Public notices Public meetings Local media	<input type="checkbox"/>

* Emergency Response Note: Flood response planning projects provide more than one emergency action plan that are necessary to respond to a flood emergency and to maintain the state, however, the plan is not suitable for the project, which requires a local mitigation plan and was not an eligible response for FEMA's mitigation grant.



Reynolds County Multi-Jurisdictional Hazard Mitigation Planning Project
WHAT IS THE ROLE OF A LOCAL JURISDICTION IN MITIGATION??

In developing your list of mitigation projects, you may think of some projects that will be undertaken at sites or facilities owned by your municipality. For example, maybe you would like to upgrade a commercial drainage system, have a locally owned roadway, or relocate the local police station out of the floodplain. But what happens if you use a road for a mitigation project at a site or facility for which your municipality has no authority? For example, what if a County road runs through your municipality, and you think a certain portion of the road should be raised to prevent the road from being overtopped during a flood event? What if there is a nursing home in your community's floodplain, and you think there would be a great benefit to building a floodwall around the facility? Or how about residential structures that you think should be elevated? Here are some points which we hope will clarify the role of a local jurisdiction under these two circumstances.

If your municipality DOES NOT own the site/facility in need of mitigation...	If your municipality DOES own the site/facility in need of mitigation...
1. Meet with the facility owner to advise them of the problem.	1. Identify feasible alternatives to mitigate the problem (the most important consideration is to maintain a detailed evaluation of the site and specific construction details of the facility).
2. Support the facility owner to identify feasible alternatives to mitigate the problem that may require a coordinated response to maintain a detailed evaluation of the site and specific construction details of the facility.	2. Find the most cost-effective mitigation alternative (either through local government, or if needed through funding sources at the state or federal levels, such as FEMA's Pre-Disaster Mitigation Program (PDM), Hazard Mitigation Grant Program (HMGP), or Flood Mitigation Assistance Program (FMAA)).
3. If requested by the facility owner, apply to the owner's local (or federal) mitigation project funding for the most cost-effective mitigation alternative (either through local government, or if needed through funding sources at the state or federal levels, such as FEMA's Pre-Disaster Mitigation Program (PDM), Hazard Mitigation Grant Program (HMGP), or Flood Mitigation Assistance Program (FMAA)).	3. Evaluate the project when funding is secured.

- ## The Role of a Local Jurisdiction
- If municipality has ownership, then your action is to undertake the project.
 - If the owner is anyone else, then your action can be to: advise the owner of the problem, work with them to identify a solution, and submit a grant application on their behalf to obtain funding to complete the project.

- ## The Role of a Local Jurisdiction – An Example
- The Project:** Acquire 5 homes that repeatedly flood
 - Your municipality's "action" is NOT** to acquire the houses (unless your local budget has a lot of available funds).
 - Your municipality's "action" is** to meet with the homeowner to advise them of the risks they face and the benefits of acquisition, and apply to FEMA on their behalf for mitigation project grant funding.

- ## 2. Evaluation and Prioritization of Actions
- FEMA's "S T A P L E E"
 - Qualitative and subjective level of analysis of overall benefits and costs in lieu of formal benefit-cost analysis
 - Acceptable for the planning phase – more formal analysis only required later when making actual grant applications



2. Evaluation and Prioritization of Actions

Socially acceptable

Technically feasible


Administratively possible

Politically favored

Legally possible

Economically viable

Environmental impact



PRIORITIZATION OF ACTIONS

(Based on DENR Region 1 "Toolbox" for "Assessing the Feasibility of Implementing a Project" and DENR Region 1 "Toolbox" for "Assessing the Feasibility of Implementing a Project")

Instructions: Before completing this form, your organization should already have completed the DENR Region 1 "Toolbox" for "Assessing the Feasibility of Implementing a Project" and DENR Region 1 "Toolbox" for "Assessing the Feasibility of Implementing a Project". This form is intended to help you prioritize a range of actions to implement the project that you have identified. It is a planning tool, not a decision-making tool. It is intended to help you identify the actions that you can implement first, based on the results of the assessment. It is not intended to be a final decision on the actions to implement.

There are two parts to this form. Part 1 is the "Feasibility Assessment" and Part 2 is the "Prioritization of Actions".

Part 1: Feasibility Assessment


This part is used to assess the feasibility of implementing the project. It is divided into two sections: "Feasibility Assessment" and "Prioritization of Actions".

Feasibility Assessment

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Prioritization of Actions

This section is used to prioritize the actions to implement the project. It is divided into two sections: "Feasibility Assessment" and "Prioritization of Actions".



PRIORITIZATION OF ACTIONS

(Based on DENR Region 1 "Toolbox" for "Assessing the Feasibility of Implementing a Project" and DENR Region 1 "Toolbox" for "Assessing the Feasibility of Implementing a Project")

Instructions: Before completing this form, your organization should already have completed the DENR Region 1 "Toolbox" for "Assessing the Feasibility of Implementing a Project" and DENR Region 1 "Toolbox" for "Assessing the Feasibility of Implementing a Project". This form is intended to help you prioritize a range of actions to implement the project that you have identified. It is a planning tool, not a decision-making tool. It is intended to help you identify the actions that you can implement first, based on the results of the assessment. It is not intended to be a final decision on the actions to implement.

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PRIORITIZATION OF ACTIONS

(Based on DENR Region 1 "Toolbox" for "Assessing the Feasibility of Implementing a Project" and DENR Region 1 "Toolbox" for "Assessing the Feasibility of Implementing a Project")

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Feasibility Assessment

This section is used to assess the feasibility of implementing the project. It is divided into two sections: "Feasibility Assessment" and "Prioritization of Actions".


Prioritization of Actions

This section is used to prioritize the actions to implement the project. It is divided into two sections: "Feasibility Assessment" and "Prioritization of Actions".



3. Implementation Strategy Development

- Project Description – what will be done, where and why
- What hazards will the project address?
- Will the project affect existing assets, future assets, or both?
- Who will take the lead?
- What authority does the municipality have to do the project?
- When will the project be completed?
- How much will the project cost? (\$, or H/M/L)
- Where will the funds come from to do the work?



IMPLEMENTATION STRATEGY WORKSHEET

(Based on DENR Region 1 "Toolbox" for "Assessing the Feasibility of Implementing a Project" and DENR Region 1 "Toolbox" for "Assessing the Feasibility of Implementing a Project")

Instructions: Before completing this form, your organization should already have completed the DENR Region 1 "Toolbox" for "Assessing the Feasibility of Implementing a Project" and DENR Region 1 "Toolbox" for "Assessing the Feasibility of Implementing a Project". This form is intended to help you develop an implementation strategy for the project that you have identified. It is a planning tool, not a decision-making tool. It is intended to help you identify the actions that you can implement first, based on the results of the assessment. It is not intended to be a final decision on the actions to implement.


There are two parts to this form. Part 1 is the "Feasibility Assessment" and Part 2 is the "Implementation Strategy Development".

Part 1: Feasibility Assessment


This part is used to assess the feasibility of implementing the project. It is divided into two sections: "Feasibility Assessment" and "Implementation Strategy Development".

Implementation Strategy Development

This section is used to develop an implementation strategy for the project. It is divided into two sections: "Feasibility Assessment" and "Implementation Strategy Development".




Local Floodplain Administrators and Floodplain Management Ordinances



- Designating a Local Floodplain Administrator and adopting a Local Floodplain Management Ordinance are REQUIREMENTS for entry into FEMA's National Flood Insurance Program (NFIP).
- FEMA's NFIP Community Status Book lists every municipality in the County as participating in the NFIP.
- At some point in the past, every municipality in the county provided FEMA with their ordinance and the local administrator.



Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project NFIP COMPLIANCE ACTIONS WORKSHEET



(Name of Jurisdiction) _____

Part 1:

1. Please fill in the following table. (Note: All municipalities in Rensselaer County participating in the NFIP, NFIP participating townships DO have a floodplain management ordinance AND a Floodplain Administrator on the books.)

Name of Your Jurisdiction	Adoption Date of your Current Floodplain Management Ordinance	Position Title of Your Jurisdiction's Designated Floodplain Administrator	Number of Municipal Staff with Roles in Enforcement of Floodplain Management Ordinance
Please give a brief description of activities currently undertaken by your municipality to enforce your floodplain management ordinance:			

Part 2:

2. If your current floodplain management ordinance was adopted before 1996 and has not been subsequently revised, then fill in Row 1 on Pages 2 and 3. (Please leave Row 1 blank if your ordinance is current as of 1996 or later.)

3. If your jurisdiction currently does not have a specific person filling the position title of Floodplain Administrator, or if the person filling this position is unaware of these responsibilities, then fill in Row 1 on Pages 2 and 3. (Otherwise please leave Row 1 blank.)


4. If you consider the present level of staffing sufficient to adequately enforce your floodplain management ordinance, then fill in Row 3 on Pages 2 and 3. (Please leave Row 1 blank if you feel current staffing levels are adequate.)

5. Please fill in Row 4 on Pages 2 and 3 to evaluate how you plan to update your floodplain management ordinance to be consistent with revised Flood Insurance Rate Maps that may at some point become available in the future for Rensselaer County. (Note that FEMA has not included Rensselaer County as part of its Map Modernization study, thus, no new mapping is anticipated in the near future. However, everyone should still fill in Row 4.)


6. If floodplain management staff members in your municipality are not Certified Floodplain Managers (CFM), then please fill in Row 5 on Pages 2 and 3. (Please leave Row 1 blank if your floodplain managers are already CFMs.)

7. If your municipality is not already a participant in FEMA's Community Rating System (CRS), please fill in Row 6 on Pages 2 and 3. (No jurisdiction in Rensselaer County currently participates in the CRS; everyone should fill in Row 6.)

8. If you consider there to be additional activities that could be undertaken to enforce your municipality's floodplain management ordinance beyond what your municipality is already doing, please list these activities in the Blank Rows 7 and 8 on Pages 2 and 3. (Otherwise, you can leave Row 7 and 8 blank.) * Feel free to attach additional pages if you need more space.




Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project NFIP COMPLIANCE ACTIONS WORKSHEET




(Name of Jurisdiction) _____

PRIORITIZATION

NFIP Compliance Action	*** cost/benefit ratio ***					*** benefit/benefit ratio ***		*** benefit/benefit ratio ***		Overall Benefit	Overall Cost	Priority
	High	Medium	Low	High	Medium	Low	High	Medium	Low			
1. Update/review floodplain management ordinance to comply with latest FEMA regulations												
2. Designate/review a specific person to be your municipality's Floodplain Administrator												
3. Address sufficient numbers of staff to adequately enforce NFIP regulations/floodplain management ordinance												
4. Update/review floodplain management ordinance to be consistent with potential future use FEMA												
5. Request staff involved in floodplain management not enforce enforcement to become Certified Floodplain Managers (CFM)												
6. Join the Community Rating System (CRS)												




Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project NFIP COMPLIANCE ACTIONS WORKSHEET




(Name of Jurisdiction) _____

IMPLEMENTATION STRATEGY

Priority	NFIP Compliance Action	Applies to Community Structures (Existing New, Both, Neither)	Primary Department Responsible	Existing Local Planning Mechanism through which the action will be implemented	Target Date	Cost Estimate	Funding Source
1	1. Update/review floodplain management ordinance to comply with latest FEMA regulations						
2	2. Designate/review a specific person to be your municipality's Floodplain Administrator						
3	3. Address sufficient numbers of staff to adequately enforce NFIP regulations/floodplain management ordinance						
4	4. Update/review floodplain management ordinance to be consistent with potential future use FEMA						
5	5. Request staff involved in floodplain management not enforce enforcement to become Certified Floodplain Managers (CFM)						
6	6. Join the Community Rating System (CRS)						




To submit your worksheets:




Anna Foley
URS
 201 Willowbrook Boulevard, 3rd Floor
 Wayne, New Jersey 07470-7005
 Phone: 973-785-0700 ext. 339
 Fax: 973-812-0985
 Email: anna_foley@urscorp.com

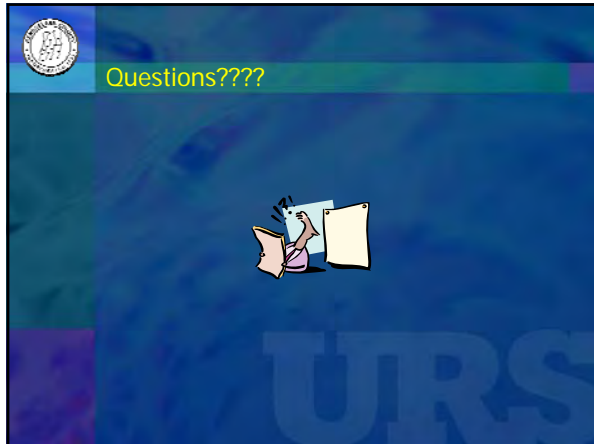
Please don't hesitate to call with questions!!



Next Steps



- Submit comments on the RAID and any past-due deliverables no later than Friday, December 3rd.
- If you are not turning in your forms today, please do so no later than Wednesday, December 15th.
- January – Draft Plan to NYSOEM → FEMA





Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project

***Stakeholders Informational Session –
November 30, 2010 (6-8 pm)***

Agenda

- Welcome & Opening Remarks í í í í í í í í í ...*Kelly Paslow, Director, RCBPS*
- Project Overview í í í .í í í í í í í ...í í í í í*Anna Foley, URS*
 - ✚ *Mitigation and Mitigation Planning*
 - ✚ *Purpose and Need for the Plan*
 - ✚ *Key Stakeholders and How They Fit In to the Process*
 - ✚ *Summary of the Project To Date*
- Discussion and Feedback from Stakeholders í .í í í í*Anna Foley, URS*
- Closing Remarks.í í í í í í í í í *Kelly Paslow, Director, RCBPS*
- Adjourn





Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project
Stakeholders Informational Session – November 30, 2010 (6-8 pm)
Rensselaer County Government Center, 1600 Seventh Avenue, Troy, NY 12180 in Conference Room A

1061

Last Name	First Name	Representing	Email Address	Phone
Seward	Karen	HVCC	K.seward@hvcc.edu	629-7427
SANDRO	Tom	RENS CO SOIL & WATER	TOM.SANFORD@NY.NACONET.NET	271-1740
HAWLEY	DAVID	Cornell Cooperative Extension of Rensselaer	dh10@cornell.edu	272-4210
SILVA	RYAN	Rensselaer County Chamber Commerce	rsilva@renscochamber.com	274-7020
KING	JOANNA	CAPITAL DIST. REG. PLNG. COMM.	JOANNA@CDRPC.ORG	432-0850
COWAN	STEPHEN	HVCC	S.COWAN@hvcc.edu	629-7356
Laslov	Kelly	Rm Co SPs	KPLaslov@Rensco.com	266-7676
Bachman	Timothy	Red Cross	BACHMAN@REDCROSSNY.ORG	577-9101
HANSON	CHARLIE	QUESTAR III BOCES	CHANSER@QUESTAR.ORG	479-6974
Goebel	Jonathan	Rensselaer County	jgoebel@rensco.com	266-7678
Foley	ANNA	UPS	anna	

**Rensselaer County Multi-Jurisdictional
Hazard Mitigation Planning Project**

*Stakeholders Informational Session
November 30, 2010
6-8 pm*


Rensselaer County Government Center
1600 Seventh Avenue, Troy
Conference Room A



Tonight's Agenda

- Welcome and Opening Remarks.....Kelly Paslow, RCBPS
- Project Overview.....Anna Foley, URS
 - ◆ Mitigation and Mitigation Planning
 - ◆ Purpose and Need for the Plan
 - ◆ Key Stakeholders & How They Fit In To The Process
 - ◆ Summary of the Project To Date
- Discussion and Feedback from Stakeholders.....All
- Closing Remarks.....Kelly Paslow, RCBPS
- Adjourn

**"Nature, as we know her, is no saint."
- Ralph Waldo Emerson**



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**Project Overview:
Mitigation and Mitigation Planning**

- Natural hazards are a part of our past, and they will inevitably be a part of our future.
- But- they don't need to become disasters!
- By planning ahead, mitigation projects can work to reduce or eliminate their consequences during future occurrences.



**Project Overview:
Mitigation and Mitigation Planning**

- **Hazard Mitigation** is any sustained action taken to reduce or eliminate long-term risk to life and property from a hazard event.
- "Recovery with foresight"


**Project Overview:
Mitigation and Mitigation Planning**

"Mitigation is about lowering the risk and reducing the effects of disasters, and this ambitious venture has the potential to reap great rewards. To successfully mitigate against disaster will require the combined talents and concerted efforts of all levels of governments, academia, professional and voluntary organizations, the corporate sector, and all Americans."

- Former President William J. Clinton

Project Overview:
Mitigation and Mitigation Planning

- Hazard Mitigation Planning is a collaborative *process* undertaken to break the damage cycle by:
 - Studying natural hazards,
 - Evaluating hazard effects, and
 - Using this information to identify hazard mitigation measures that will reduce risks.

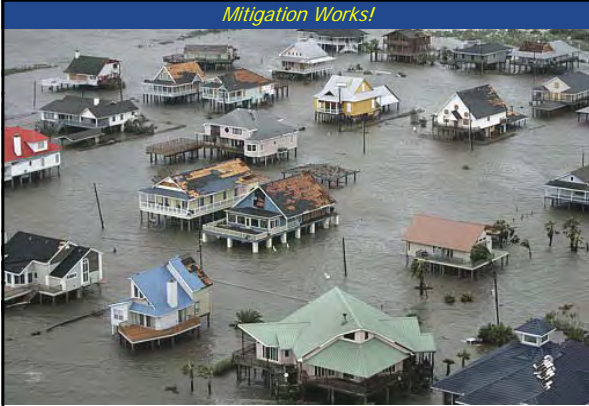


Project Overview:
Mitigation and Mitigation Planning



- Elevating a house to reduce flood damages
- Installing hurricane clips to roofs to reduce wind damage
- Retrofit structures with fire-resistant materials
- Modifying building codes to incorporate hazard-resistant design

Mitigation Works!



Elevated homes in Sweet Lake, LA (near Lake Charles) after Hurricane Rita (09/24/05).


Project Overview:
Mitigation and Mitigation Planning

- According to a study by the Multihazard Mitigation Council (part of the National Institute of Building Sciences):

Every \$1 paid toward mitigation saves an average of \$4 in future disaster-related costs




Project Overview:
Purpose and Need for the Plan



- Disaster Mitigation Act of 2000 requires it as a condition for eligibility to apply for certain types of federal hazard mitigation project funding.

Project Overview:
Purpose and Need for the Plan

- The final plan will serve as a portal to Federal grant monies for hazard mitigation projects that will reduce the effects of future natural hazards.
- Winning grant applications allow local officials to supplement precious local tax dollars with federal funding to achieve local hazard mitigation objectives at the least cost to the community.
- Implementing the projects will reduce the repair costs associated with future hazard occurrences.



Project Overview:
Purpose and Need for the Plan


Once the plan is approved, jurisdictions that participate fully will be able to apply for projects like these (few examples):

- Acquire/elevate/floodproof/relocate structures
- Road raising/relocation
- Culvert upgrades
- Bridge retrofits
- Utility system protective measures
- Wind retrofits for buildings
- Minor localized flood reduction projects (inc. retention/ detention basins)
- Soil stabilization (geotextiles, rip rap, etc.)
- Wildfire mitigation (defensible space, ignition-resistant construction, fuel reduction)

How much of project costs could typically be funded by FEMA grants?

■ Programs and Federal Share

- ◆ HMGP 75%
- ◆ PDM 75%
- ◆ FMA 75%
- ◆ RFC 100%
- ◆ SRL 90%





How much of project costs could typically be funded by FEMA grants?

■ Programs and Federal Share

◆ HMGP	75%	} \$0.25
◆ PDM	75%	
◆ FMA	75%	
◆ RFC	100%	
◆ SRL	90%	
		} \$0.25
		} \$0.00
		} \$0.10


■ **Bottom Line: Free money**

Hazard Mitigation Planning?

Town Hall


Well, we'll cross that bridge when we come to it.



© Editorial cartoon by Clark Rowland

Project Overview:
Key Stakeholders & How They Fit Into the Process

County
Municipalities
General Public
Other Stakeholders
Consultant




Project Overview:
Key Stakeholders & How They Fit Into the Process


Who Are Other Stakeholders?

- ◆ Neighborhood groups
- ◆ Non-profit organizations (i.e. scout troops, Red Cross, Salvation Army)
- ◆ Housing organizations
- ◆ Environmental groups
- ◆ Historic preservation groups
- ◆ Parent-teacher organizations
- ◆ Church organizations
- ◆ Parks organizations
- ◆ State, federal, and local government offices
- ◆ Neighboring communities/counties
- ◆ Business and development organizations
- ◆ Academic institutions
- ◆ Utility providers
- ◆ Hospitals
- ◆ Tribal groups
- ◆ Transportation entities
- ◆ Regional planning organizations
- ◆ Emergency service providers
- ◆ Jurisdiction web site managers / IT staff
- ◆ Any local office and/or group with a public outreach focus


Project Overview:
Key Stakeholders & How They Fit Into the Process




■ “An effective and open public involvement process ensures that all citizens understand risks and vulnerability so that they will work with the jurisdiction and support policies, actions, and tools that over the long-term will lead to a reduction in future losses.”



Project Overview:
Key Stakeholders & How They Fit Into the Process



- “...In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process **shall** include:
- (1) an opportunity for the public to comment on the plan during the drafting stage and prior to plan approval;
- (2) An opportunity for ...[other stakeholders]...to be involved in the planning process;.....”



Project Overview:
Key Stakeholders & How They Fit Into the Process

Your involvement in this planning process is welcomed and encouraged.

Point of Contact for the Project
Kelly Paslow, Director, RCBPS
kpaslow@rensco.com
518-266-7678

[Comments](#) [Feedback](#) [Contributions](#)

Project Overview:
Summary of the Project To-Date

Key Steps:




- Researching a full range of natural hazard events to determine which are the most prevalent;
- Identifying the location and extent of hazard areas;
- Identifying assets located within these hazard areas;




Project Overview:
Summary of the Project To-Date

Key Steps: (continued)

- Characterizing existing and potential future assets at risk;
- Assessing vulnerabilities to the most prevalent hazards; and
- Evaluating and prioritizing goals, objectives, and mitigation actions to reduce or avoid long-term vulnerabilities to the most prevalent hazards.

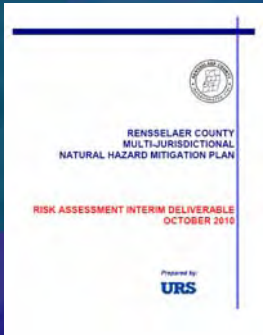




Project Overview:
Summary of the Project To-Date

Project Timeline

■ Kickoff Meeting:	July 2010
■ Plan Development:	Ongoing
■ Local Feedback:	Ongoing
■ Risk Assessment Interim Deliverable:	October 2010
■ Risk Assessment Q&A Session:	October 2010
■ Mitigation Strategy Working Session:	November 2010
■ Draft Plan to CPG:	December 2010
■ Draft Plan to NYSEMO:	January 2011


Project Overview: Summary of the Project To-Date



- R.A.I.D. - Distributed to CPG 10/20/10
- Contains working draft sections of the plan
 - Hazard Identification
 - Hazard Profiles
 - Identification and Characterization of Assets
 - Damage Estimates
 - Mitigation Goals
 - Range of Alternative Mitigation Actions to Consider
 - Plan Maintenance
 - For More Information

Project Overview: Summary of the Project To-Date

- Evaluation of a full range of natural hazards (23)
- Hazards selected for further analysis and reasons why (13)
- Hazards not selected and reasons why not (10)



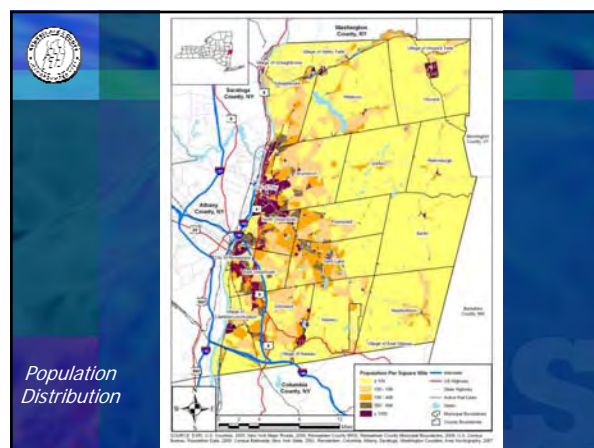
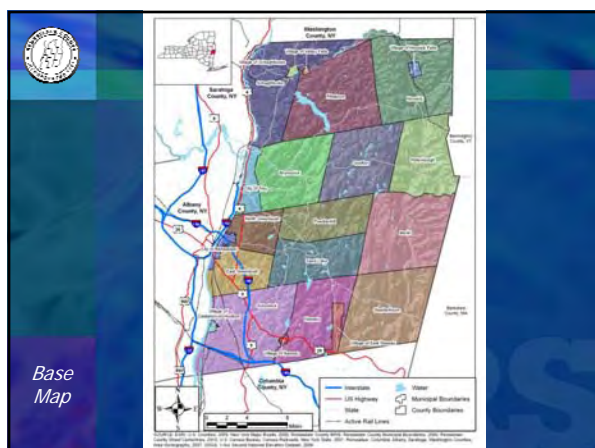
Project Overview: Summary of the Project To-Date

23 hazards evaluated
13 identified as "significant" for further evaluation

■ Extreme Temperatures	■ Drought
■ Extreme Wind	■ Flood
■ Hurricane and Tropical Storms	■ Ice Jams
■ Lightning	■ Earthquakes
■ Tornadoes	■ Landslides
■ Winter Storms	■ Wildfires
■ Dam Failure	

Project Overview: Summary of the Project To-Date

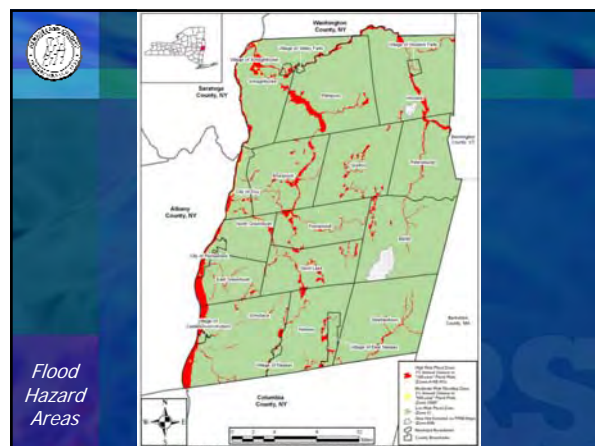
- Description of hazard
- Location of hazard area
- Extent (magnitude or severity)
- Previous occurrences
- Probability/likelihood of future occurrences



Distribution of Profiled Hazards

Table 3a.1
Summary of Profiled Hazards by Municipality

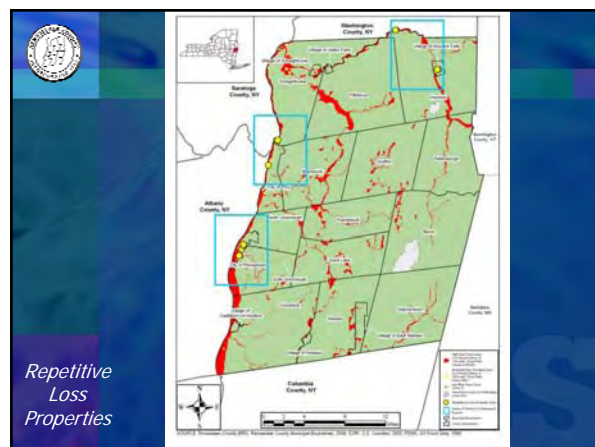
Jurisdiction	Extreme Temperatures	Extreme Wind	Hurricane and Tropical Storm	Tornado	Lightning	Winter Storm	Dam Failure	Drought	Flood ¹	Ice Jam ²	Earthquake	Landslide ³	Wildfire ⁴
Rensselaer County of													
Berlin, Town of													
Bonanza, Town of													
Carlton-on-Hudson, Village of													
East Greenbush, Town of													
East Nassau, Village of													
Greenville, Town of													
Hosack, Town of													
Hosack Falls, Village of													
Harris, Town of													
Harris, Village of													
North Greenbush, Town of													
Patterson, Town of													
Patterson, Town of													
Rensselaer, City of													
Sand Lake, Town of													
Schaghticoke, Town of													
Schaghticoke, Village of													
Schoharie, Town of													
Schoharie, Town of													
Shelburne, Town of													
Troy, City of													
Valley Falls, Village of													



Flood Hazard Areas

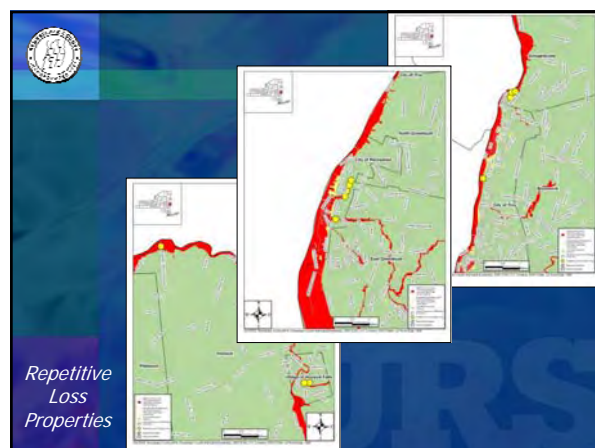
Summary of FEMA Q5 Flood Data by Municipality: Improved Property in Hazard Areas

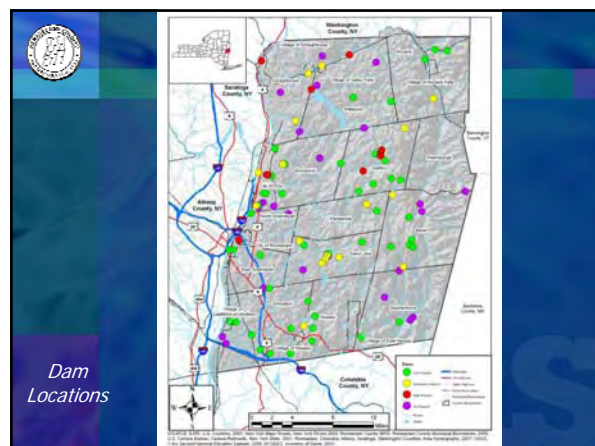
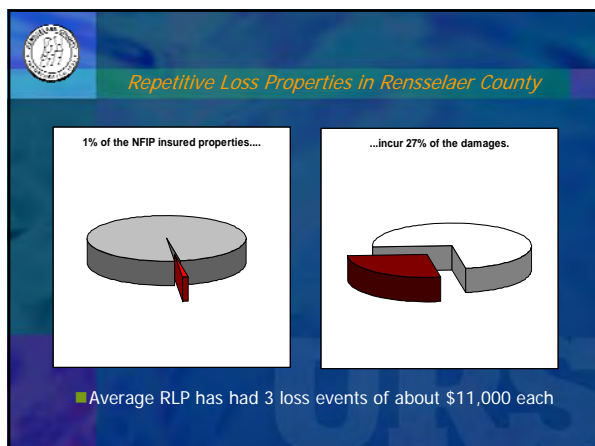
Municipality	Total Improved Property Value	Improved Property in High Flood Risk Areas		Improved Property in Moderate Flood Risk Areas		Improved Property in Low Flood Risk Areas (%)	Improved Property in Low Flood Risk Areas (%)
		A, AE	X	A, AE	X		
Berlin, Town of	\$161,460,296	\$7,360,993	\$0	\$15,915,460	\$0	7%	0%
Bonanza, Town of	\$93,076,230	\$41,246,232	\$666,171	\$803,163,031	\$0	4%	0.1%
Carlton-on-Hudson, Village of	\$173,218,901	\$45,107,756	\$2,043,551	\$1,280,867,992	\$246,171	24%	1%
East Greenbush, Town of	\$1,470,535,900	\$40,485,331	\$661,755	\$1,437,388,812	\$0	3%	0.04%
East Nassau, Village of	\$36,635,044	\$1,574,931	\$405,069	\$12,634,062	\$0	10%	1%
Greenville, Town of	\$160,142,003	\$4,706,080	\$0	\$155,433,203	\$0	3%	0%
Hosack, Town of	\$276,325,323	\$6,462,770	\$0	\$269,291,973	\$0	2%	0%
Hosack Falls, Village of	\$333,334,890	\$16,069,381	\$0	\$319,265,509	\$0	7%	0%
Harris, Town of	\$207,287,186	\$6,404,721	\$377,291	\$200,134,140	\$0	7%	0.7%
Harris, Village of	\$103,812,537	\$6,880,164	\$0	\$94,932,368	\$0	7%	0%
North Greenbush, Town of	\$1,126,168,100	\$14,130,043	\$11,248,413	\$1,040,740,734	\$0	7%	2%
Patterson, Town of	\$15,589,279	\$5,292,002	\$0	\$10,297,277	\$0	3%	0%
Patterson, Town of	\$294,657,030	\$9,974,431	\$37,328	\$284,622,602	\$0	7%	0.02%
Patterson, Town of	\$11,226,879	\$1,129,632	\$1,832,897	\$296,316,417	\$0	7%	1%
Rensselaer, City of	\$527,481,632	\$123,812,734	\$10,940,246	\$174,635,537	\$239,700	23%	2%
Sand Lake, Town of	\$618,731,100	\$33,807,439	\$2,863,100	\$102,001,109	\$0	7%	0.3%
Schaghticoke, Town of	\$393,627,712	\$16,932,644	\$14,796,910	\$361,835,234	\$0	4%	4%
Schaghticoke, Village of	\$40,285,342	\$995,159	\$25,082	\$47,249,991	\$0	2%	0.1%
Schoharie, Town of	\$446,788,002	\$10,401,402	\$2,232,877	\$24,633,795	\$0	2%	0.3%
Schoharie, Town of	\$187,025,080	\$5,411,373	\$444,371	\$180,962,326	\$0	3%	0.2%
Troy, City of	\$4,097,481,405	\$223,453,120	\$192,613,242	\$3,581,414,640	\$0	5%	5%
Valley Falls, Village of	\$24,033,244	\$143,066	\$7,462	\$24,433,774	\$0	2%	0.03%
Rensselaer County Total	\$12,432,187,825	\$793,887,538	\$179,489,802	\$11,186,520,560	\$239,700	6%	2.2%



Repetitive Loss Properties:

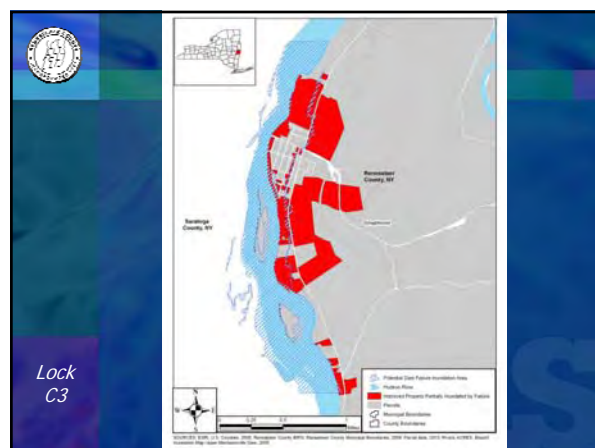
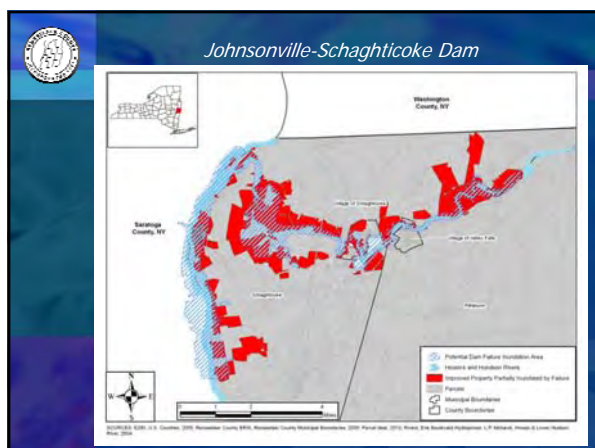
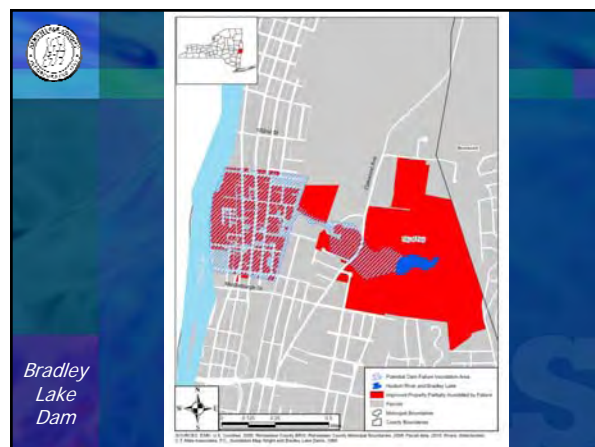
- Two or more losses
- Of at least \$1,000 each
- In any rolling 10-year window since community's entry into NFIP

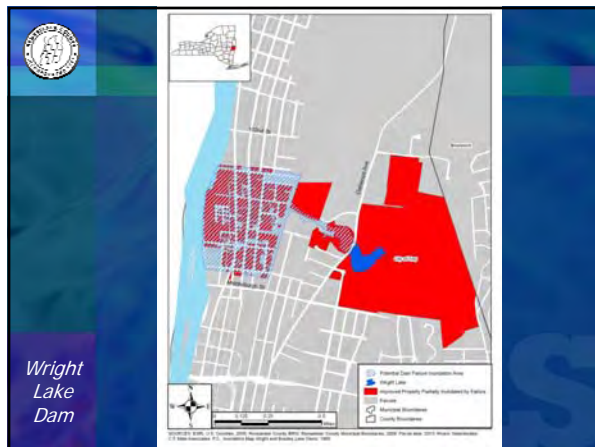
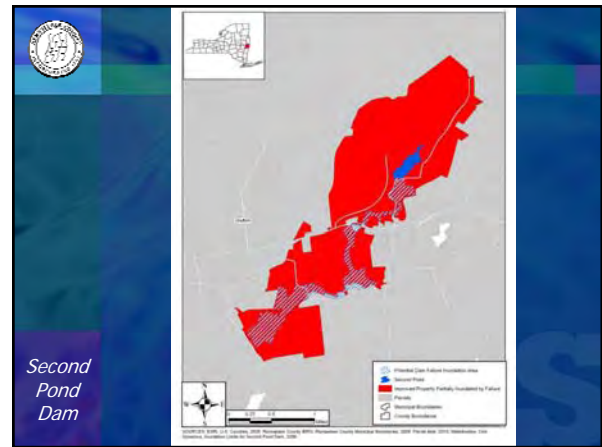
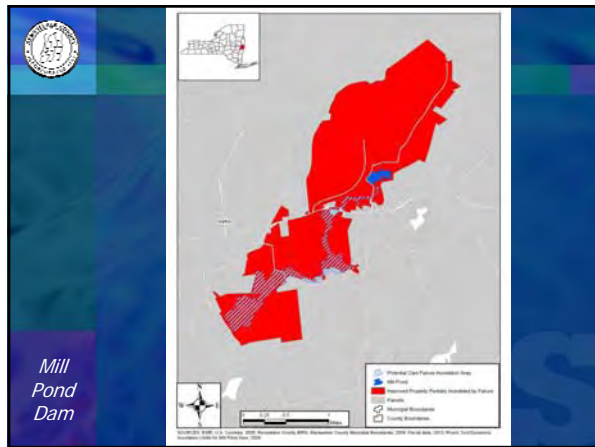
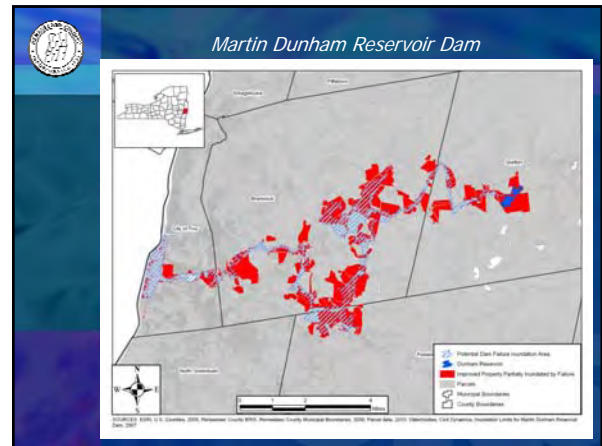
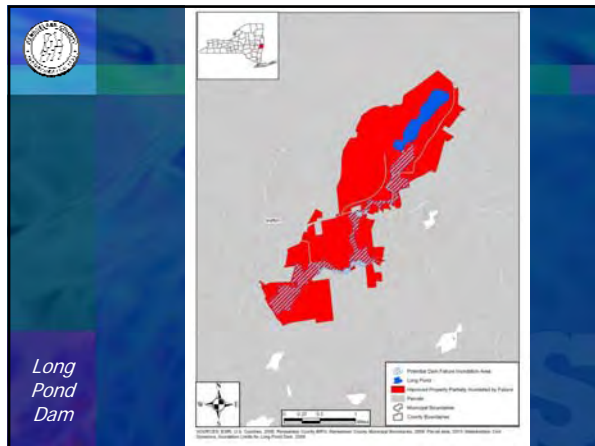




Dam Failure

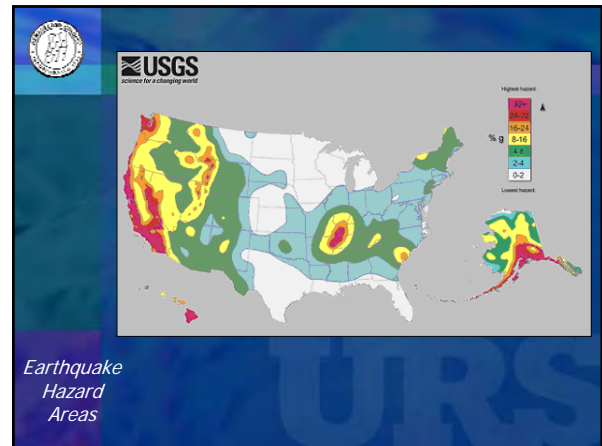
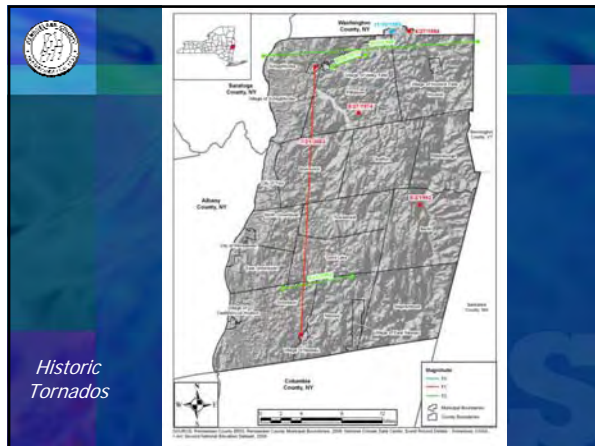
High Hazard Dams (NYSDEC):
A dam failure may result in widespread or serious damage to home(s); damage to main highways, industrial or commercial buildings, railroads, and/or important utilities, including water supply, sewage treatment, fuel, power, cable or telephone infrastructure; or substantial environmental damage; such that the loss of human life or widespread substantial economic loss is likely.

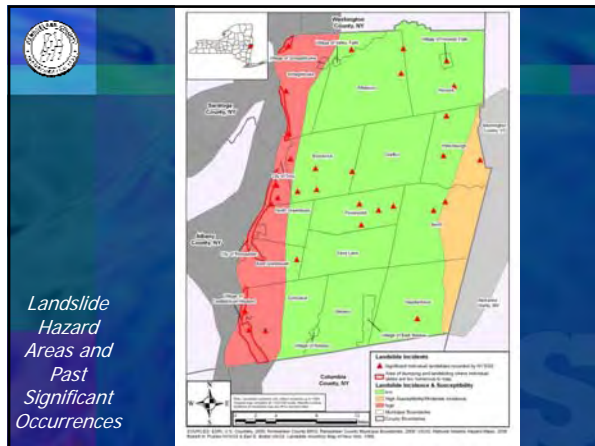




Estimated Potential Exposure of Improved Property to Dam Failure (Source: NDS/CBC, Wisconsin County GIS)			
Bradley Lake Dam			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
City of Troy	\$4,097,481,403	\$610,630,484	1.5%
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
City of Troy	\$4,097,481,403	\$79,091,299	.4%
Martin Dunham Reservoir Dam			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Orono	\$166,142,003	\$1,483,928	0.9%
Town of Portersville	\$115,226,879	\$4,213,064	3.7%
Town of Brunswick	\$933,076,250	\$64,222,731	6.9%
City of Troy	\$4,097,481,403	\$547,727,205	13.4%
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Orono	\$166,142,003	\$164,811	0.0%
Second Pond Dam			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Orono	\$166,142,003	\$1,226,164	0.7%
Long Pond Dam			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Orono	\$166,142,003	\$1,317,225	0.8%
Shenandoah and Schaghticoke Dams			
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Portersville	\$126,977,020	\$3,403,113	2.7%
Town of Schaghticoke	\$193,627,712	\$15,337,582	7.9%
Village of Schaghticoke	\$48,215,342	\$7,229,737	14.9%
Village of Valley Falls	\$14,919,614	\$1,484,663	9.9%
Municipality	Total Municipal Improved Value	Exposed Improved Value	Exposed Value as % of Municipal Total
Town of Schaghticoke	\$193,627,712	\$7,492,303	3.9%

Note: Exposure has been estimated only for the individuals based data affecting Oneida County for which adequate inundation mapping was readily available.

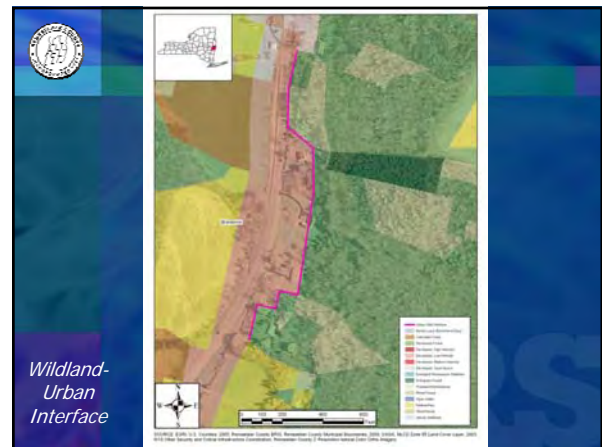
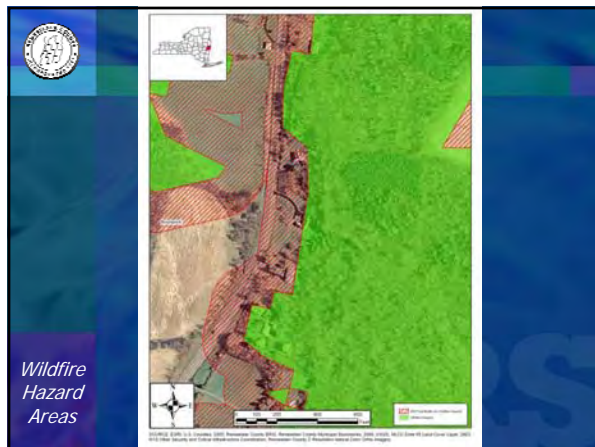
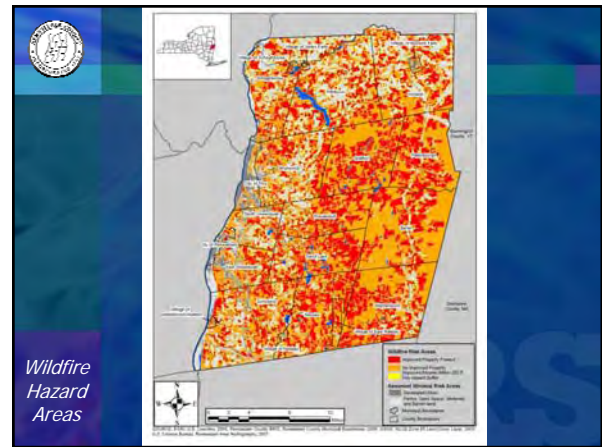
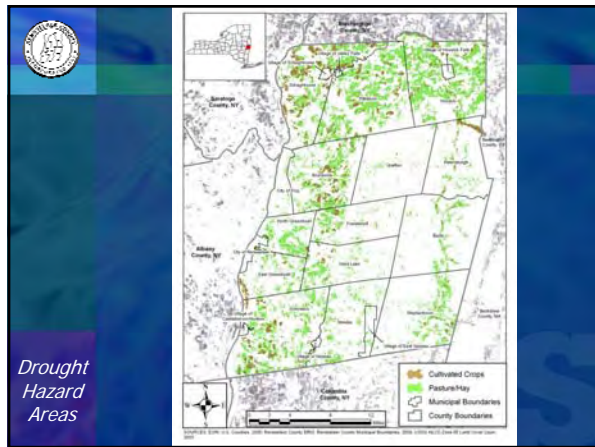




Landslide Hazard Areas

Landslide Risk by Municipality

Municipality	Total Area (Acres)	Total Improved Value	High Incidence		High Susceptibility/Moderate Incidence	
			Area (Acres)	% Improved Value	Area (Acres)	% Improved Value
Beacon, Town of	38,156	\$161,460,596	0	0%	0	0%
Barnesville, Town of	29,234	\$23,557,620	1,189	0%	15,774	4%
Canton-on-Hudson, Village of	533	\$173,261,901	533	100%	0	0%
East Greenbush, Town of	15,713	\$1,478,555,900	12,208	78%	\$1,422,462,069	96%
East Haverhill, Village of	3,031	\$36,635,844	0	0%	0	0%
Orangetown, Town of	29,706	\$140,142,003	0	0%	0	0%
Hornell, Town of	29,344	\$276,252,323	0	0%	64	0%
Hornell Falls, Village of	950	\$335,324,980	0	0%	0	0%
Haverhill, Town of	25,597	\$207,267,186	0	0%	0	0%
Haverhill, Village of	482	\$131,302,537	0	0%	0	0%
North Greenbush, Town of	12,183	\$1,126,168,100	6,026	50%	\$767,789,236	68%
Petersburgh, Town of	26,632	\$8,588,579	0	0%	5,916	33%
Pittsford, Town of	40,236	\$296,607,628	0	0%	0	0%
Pontauque, Town of	26,732	\$215,226,879	0	0%	0	0%
Rensselaer, City of	2,262	\$127,461,852	2,262	100%	\$127,461,845	100%
Sand Lake, Town of	23,088	\$618,731,110	0	0%	0	0%
Schaghticoke, Town of	13,507	\$393,627,782	22,281	69%	\$303,376,307	77%
Schaghticoke, Village of	640	\$48,285,342	474	74%	\$44,403,730	92%
Schoharie, Town of	46,243	\$846,718,002	23,084	50%	\$518,241,575	61%
Stephentown, Town of	27,280	\$137,823,088	0	0%	6,051	0%
Town of	7,056	\$4,097,481,405	6,992	99%	\$4,087,481,400	100%
Valley Falls, Village of	307	\$24,933,624	0	0%	0	0%
County Totals	425,915	\$12,472,183,925	75,970	18%	\$8,066,599,592	65%



Wildfire Hazard Areas

Exposure to Wildfire Risk in Remondure County								
Municipality	Urban-Wildland Interface (Miles)	Wildfire Risk Zones with no Improved Property (Acres)	Wildfire Risk Zones with Improved Property (Acres)	Total Municipal Area (Acres)	Wildfire Risk (%)	Total Value of Improvements in Municipal Areas	Improved Property Value Valuable in Wildfire*	
Berlin, Town of	6.1	24,519	12,255	38,194	96%	\$141,460,296	\$132,903,665	92%
Bremers, Town of	43.8	3,330	13,814	28,284	72%	\$933,076,230	\$551,284,456	59%
Carlisle, Village of	4.6	40	312	537	67%	\$173,218,991	\$175,921,469	48%
East Greenbush, Town of	38.8	4,587	4,544	15,313	68%	\$1,215,333,000	\$637,889,874	48%
East Nassau, Village of	2.5	1,201	1,363	1,031	97%	\$36,633,844	\$31,430,817	87%
Oriskany, Town of	4.2	13,041	13,540	29,706	96%	\$166,142,003	\$155,521,946	97%
Roseville, Town of	19.1	9,517	13,145	39,364	72%	\$276,323,321	\$209,204,443	76%
Roseville Falls, Village of	8.4	132	378	850	96%	\$335,334,930	\$227,832,334	68%
Warren, Town of	11.0	5,388	14,611	25,997	96%	\$287,287,186	\$177,774,978	68%
Warren, Village of	3.6	103	819	482	72%	\$151,813,537	\$45,536,915	54%
North Greenbush, Town of	33.1	3,401	4,404	12,183	65%	\$1,126,168,100	\$591,383,707	57%
Peterborough, Town of	6.1	12,533	12,424	26,682	94%	\$65,588,579	\$77,492,364	91%
Pittsford, Town of	24.1	9,110	20,317	48,454	72%	\$286,077,030	\$110,109,155	38%
Pittsford, Town of	26.1	7,081	10,708	26,123	96%	\$13,226,579	\$70,154,415	76%
Remondure, City of	2.7	364	120	2,202	31%	\$327,481,832	\$37,344,492	11%
Samuel, Town of	40.3	1,281	13,217	10,013	96%	\$67,731,110	\$511,631,540	76%
Schlaghtons, Town of	37.3	1,440	14,461	32,527	67%	\$393,627,712	\$264,461,393	67%
Schlaghtons, Village of	4.1	110	154	446	72%	\$48,315,342	\$32,146,874	67%
Schoharie, Town of	71.0	11,204	17,207	46,243	72%	\$6,761,600	\$613,378,744	76%
Stephentown, Town of	18.0	13,248	17,377	37,230	93%	\$137,033,080	\$159,778,110	83%
Tryon, City of	14.8	1,648	1,218	1,054	32%	\$4,077,481,400	\$500,960,981	12%
Valley Falls, Village of	1.6	100	68	307	64%	\$2,493,624	\$1,789,945	71%
County Totals	413.8	149,447	194,126	412,415	67%	\$12,435,181,912	\$10,675,405,591	67%


Hazard Mitigation: Recovery With Foresight



► "The world we have created today as a result of our thinking thus far has problems which cannot be solved by thinking the way we thought when we created them."

Albert Einstein

Questions and Answers



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Our Commitment:
A FEMA-Approved Plan



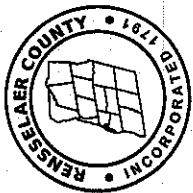
Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project

*Meeting to Present the Draft Plan –
January 26, 2011 (2 pm)*

Agenda

- Welcome & Opening Remarks.....*Kelly Paslow, Director, RCBPS*
- The Draft Plan.....*Anna Foley, URS*
- Comments/Feedback on the Document.....*Core Planning Group Members*
- What happens next?.....*Anna Foley, URS*
- Questions & Answers.....*All*
- Adjourn..... *Kelly Paslow, Director, RCBPS*





Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project
Mitigation Strategy Working Session – January 26, 2011(2 pm)
Rensselaer County Government Center, 1600 Seventh Avenue, Troy, NY 12180 in Conference Room A

P.1/2

Last Name	First Name	Representing	Email Address	Phone
Jordan	Bruce	NYSDOT	B.Jordan@DHSIS.ny.gov	793-6646
Ashworth	Josephine	W. Greenbush	ashworth@townofny.com	283-5313
Premo	Mark	Nor. Greenbush	Premo@NWRP.RR.Com	283 3921
TELSER	Joe	RENSSELAER CO. HIGHWAY	jtelser@rensco.com	283-0973
Goedermate	Alden	Town of Stephentown		733-5994
vanderHeide	Linda	Rensselaer Co Planning	Lvanderheide@rensco.com	270-2921
Rounds	Durton	Town of Sand Lake	Super@Sand-Lake.us	674-2026 Ext. 12
MELAS	PETE	NYS DEPT. OF TRANSP.	AMELAS@DOT.STATE.NY.US	286-2301
Carlson	Jean	Town of Schaghticoke	sygnis@townofschaghticoke.org	518-753-6915 x104
Gallerie	Scott	Renss Co Highway	Sgallerie@rensco.com	518 283-0973
McCagg	Fred	Town of Nasset	Nassauhighway@fairpoint.net	518 766-9417
Pastow	Kelly	Rensselaer County BPS	Kpastow@rensco.com	518-266-7676
Howell	Sara	City of Rensselaer	Sara.C.Howell@rensco.ny.gov	518 465-1693
Goebel	Jonathan	Rensselaer County BPS	jgoebel@rensco.com	518-266-7678



Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project
Mitigation Strategy Working Session – January 26, 2011(2 pm)
Rensselaer County Government Center, 1600 Seventh Avenue, Troy, NY 12180 in Conference Room A

P.2/2

Last Name	First Name	Representing	Email Address	Phone
Hansen	VERNA	Town of P. Hstown	WHS@wldblue.net	518-753-6216
FISCHER	JAMES	Village of Schoharie	SENAGA@NYCOP.RR.COM	518-753-6100
SCHMIGER	Louis	Town of Harsick	LSCHMIGER@COASRUNNER.COM	518-528-4219
MOSTA	Matt	East Greenbush	MMOSTA@EASTGREENBUSH.ORG	518-694-4011
VANWORMER	DAVID	EAST GREENBUSH	DVANWORMER@EASTGREENBUSH.ORG	518-477-7296
CHERUBINE	JOSEPH	" "	JCHERUBINE@EASTGREENBUSH.ORG	477-6225
Moore	James	East Greenbush	Jmoore@eastgreenbush.org	694-411
CHURCH	TIM	TOWN OF PETERSBURG	TIM58891@NET580.COM	658-3463
Weber	Janet	Village of Valley Falls	JWEBER16131@AOL.COM	518-753-6230
Fuda	Nadine	Town of Schoodack	Nadine.fuda@schoodack.org	(518) 477-7938
Holmes	Ken	Town of Schoodack	Kholmes12@aol.com	766-4000
Saville	Richard	Village of Castleton-on-Hudson	brswc2004ras@verizon.net	732-2983
SEVERANCE	ROBERT	VILLAGE OF NASSAU	ROBERT.SEVERANCE@US.ARMY.MIL	766-3044
Kurchner	Arlson	Town of Grafton	grafton-supervisor@verizon.net	279-3565

Foley	Anna	URS	anna_foley@urscorp.com	913-185-0700 x339
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Rensselaer County Multi-Jurisdictional Hazard Mitigation Planning Project

Meeting to Present the Draft Plan

January 26, 2011

2 pm

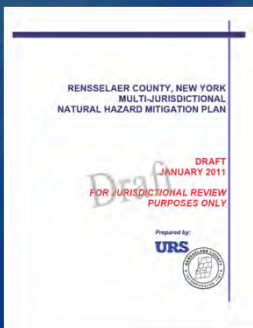
Rensselaer County Government Center
1600 Seventh Avenue, Troy
Conference Room A



Today's Agenda


- Welcome and Opening Remarks
- The Draft Plan
- Comments/Feedback on the Document
- What happens next?
- Questions and Answers

The Draft Plan




The Draft Plan

- Distributed via secure file transfer site 1/24
- CDs are being distributed today
 - One for each municipality

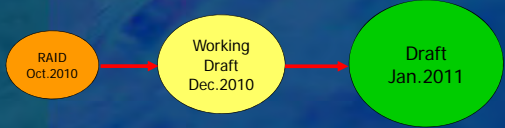


The Draft Plan


- This Draft :
 - Is being reviewed by you
 - Will soon be released to the public and other stakeholders
 - Will enter its formal State/Federal review cycle tomorrow



RAID vs. Working Draft vs. Draft




- RAID = Certain main text sections, no appendices
- Working Draft = All main text sections (with placeholders), no appendices
- Draft = All main text sections and appendices




Working Draft vs. Draft


- Appendix A – Improved Property in Hazard Areas
- Appendix B – Critical Facilities in Hazard Areas
- Appendix C – Historic and Cultural Resources in Hazard Areas
- Appendix D – Prioritization Worksheets
- Appendix E – Implementation Strategy Worksheets
- Appendix F – NFIP Compliance Actions Worksheets
- Appendix G – CPG Members
- Appendix H – Meeting Agendas, PowerPoints, SignIn Sheets
- Appendix I – Press (news articles + web)
- Appendix J – Additional flood exposure info for FEMA



Participating Jurisdictions


- All municipalities noted as having participated
- Some outstanding municipal worksheets regarding action items – plan notes “forthcoming”
 - East Greenbush
 - Hoosick
 - Hoosick Falls
 - Petersburg
 - Poestenkill
 - Stephentown
 - Troy






Participating Jurisdictions

Jurisdiction	Submitted and Reviewed 7/2/10	Workshop Activities				Key Deliverables Submitted									
		Key-Off Meeting 7/2/10	Progress Assessment (8/6/11)	Risk Assessment (Q & A 1/10/12)	Mitigation Strategy Session 10/26/10	Hazard Plan Review	Land Use and Development Trends Presentation	Hazard Identification Questionnaire	Outreach Log	Capacities Assessment (See Attachment)	Mitigation Prioritization Implementation Feasibility	NFIP Compliance Action Worksheet			
Beacon County	■	■	■	■	■	■	■	■	■	■	■	■			
Bates Town of	■	■	■	■	■	■	■	■	■	■	■	■			
Briarcliff Town of	■	■	■	■	■	■	■	■	■	■	■	■			
Canton-on-Hudson, Village of	■	■	■	■	■	■	■	■	■	■	■	■			
East Greenbush, Town of	■	■	■	■	■	■	■	■	■	■	■	■			
East Nassau, Village of	■	■	■	■	■	■	■	■	■	■	■	■			
Capitola Town of	■	■	■	■	■	■	■	■	■	■	■	■			
Harmon, Town of	■	■	■	■	■	■	■	■	■	■	■	■			
Hoosick Falls, Village of	■	■	■	■	■	■	■	■	■	■	■	■			
Norson, Town of	■	■	■	■	■	■	■	■	■	■	■	■			
Norson, Village of	■	■	■	■	■	■	■	■	■	■	■	■			
North Greenbush, Town of	■	■	■	■	■	■	■	■	■	■	■	■			
Pleasantville, Town of	■	■	■	■	■	■	■	■	■	■	■	■			
Pleasantville, Town of	■	■	■	■	■	■	■	■	■	■	■	■			
Pleasantville, Town of	■	■	■	■	■	■	■	■	■	■	■	■			
Schlagle, Town of	■	■	■	■	■	■	■	■	■	■	■	■			
Schlagle, Town of	■	■	■	■	■	■	■	■	■	■	■	■			
Schlagle, Town of	■	■	■	■	■	■	■	■	■	■	■	■			
Stephentown, Town of	■	■	■	■	■	■	■	■	■	■	■	■			
Troy, City of	■	■	■	■	■	■	■	■	■	■	■	■			
Valhalla, Village of	■	■	■	■	■	■	■	■	■	■	■	■			




Participating Jurisdictions

- Missing MSWS sheets will need to be submitted for FEMA to see your municipality as having ‘participated’ in the project
- Deadline was 12/15. The Draft includes anything received through Sunday, 1/23
 - Prioritization Worksheet (STAPLEE)
 - Implementation Strategy Worksheet
 - NFIP Compliance Actions Worksheets




The Draft Plan

- Your submittals regarding actions/projects:
 - Appendix D – Prioritization (STAPLEE)
 - Appendix E – Implementation
 - Appendix F – NFIP
- These are exactly as you provided to me, with the exception of...




The Draft Plan

-additional County-led action items with direct involvement and participation from each municipality (back half of Appendices D and E)
 - Required by FEMA to capture “lesser hazards”
 - To meet requirement for an action item for each municipality for each identified hazard
 - We used what FEMA has accepted previously for other NYS plans




The Draft Plan

Public awareness program on Hazards, Prevention, and Mitigation: County will maintain a hazard mitigation and mitigation planning web presence (local municipal web sites to link up to this site, if they haven't already done so); all participating jurisdictions to support preparation of a joint annual hazard mitigation and mitigation planning fact sheet and its distribution; periodic discussion of hazard mitigation and the mitigation plan at other regular local meetings; use of annual flyers, newsletters, advertisements, or radio/tv announcements, etc. at the discretion of each jurisdiction (incorporating as much free information as possible from the FEMA Publications Warehouse and other appropriate sources).
(public education)




The Draft Plan

Code update: Review existing local codes and ordinances against the identified hazards to determine whether there need to be any amendments to address identified hazards and, where a need is identified, modify/amend the codes/ordinances as applicable.
(prevention)




The Draft Plan

Code enforcement: Enforcement of NYS and Local Building Codes with Continual CEO training.
(prevention)




The Draft Plan

Ensure that local comprehensive plans incorporate natural disaster mitigation techniques through a courtesy review of draft plans by the County Planning Department
(prevention)




The Draft Plan

Hold periodic workshops for municipalities regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.
(prevention)



The Draft Plan

- DO NOT ADOPT THE PLAN JUST YET!
- We have to wait until FEMA approves it
- Anticipate several months (six+ typical)






CPG comments/feedback to:

Anna Foley
URS
201 Willowbrook Boulevard, 3rd Floor
Wayne, New Jersey 07470-7005
Phone: 973-785-0700 ext. 339
Fax: 973-812-0985
Email: anna_foley@urscorp.com



What happens next?

- Draft will undergo review by NYSOEM
- NYSOEM will forward to FEMA
- FEMA will review; comments likely
- Revised Draft will be submitted → NYSOEM → FEMA
- FEMA will deem "approvable pending adoption"
- Municipalities adopt and send adoption resolutions to County
- County → NYSEOM → FEMA
- FEMA 'approves' the plan one municipality at a time



Questions????

