Northern and Eastern Dutchess County Communities Regional

Multi-Jurisdictional Hazard Mitigation Planning Project

Our Team:
Partners in Protecting our Communities

Town of Amenia
Town of Beekman
Town of Dover
Town of Milan
Village of Millerton
Town of North East
Town of Pawling
Village of Pawling
Town of Pine Plains

+ support from our consultants at URS

What is hazard mitigation?

Hazard mitigation measures are actions you can undertake today to reduce your susceptibility to damages in the future.

Mitigation Measures – Some Examples

- *Elevating a house to reduce flood damages.*
- *Installing hurricane clips to a roof to reduce wind damage.*
- *Imposing setback distances to reduce erosion damages.*
- *Modifying building codes to incorporate hazard-resistant design.*

Why Prepare a Hazard Mitigation Plan?

- It simply costs too much to address the effects of disasters only after they happen.

- One study reports that, nationwide, hazard mitigation projects save an average of $4 for every $1 spent.

Mitigation Works!

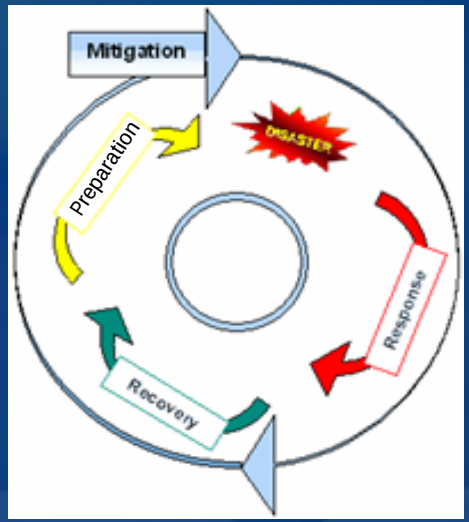
Gilchrist, Texas:

Home rebuilt in 2006 to withstand a Category 5 Hurricane. Shown here after Hurricane Ike (Cat2, 110 mph winds).

Why Prepare a Hazard Mitigation Plan?

1

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



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

Why Prepare a Hazard Mitigation Plan?

- **$$** Once the plan is approved by FEMA, participating jurisdictions will be eligible to apply for mitigation project grants.
- **$$** Good projects will be “on the shelf” for fast turnaround when LOI’s are requested.

Mitigation Works!

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

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.

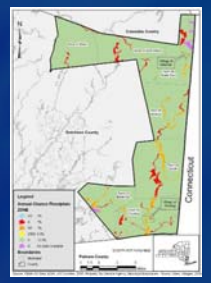
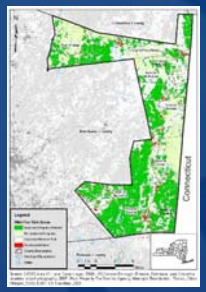


Table X.XX
Flood Data by Municipality: Improved Property Values in Identified Flood Hazard Areas
(Source: FEMA Q3 Flood Data)

Municipality	Total Improved Value (millions)	Value in High Flood Risk Areas (millions)	Value in High Flood Risk Area %	Value in Moderate Flood Risk Areas (millions)	Value in Moderate Flood Risk Areas (millions)
Amenia	$404	$80	20%	$0	0%
Beekman	$1,196	$81	7%	$0.62	0.1%
Dover	$115	$19	16%	$0.34	0.3%
Milan	$260	$0	3%	$0	0%
Northeast	$263	$36	14%	$0	0%
Pawling	$121	$17	14%	$0	0%
Pine Plains	$39	$3	7%	$0	0%
V. of Millerton	$53	$6	11%	$0	0%
V. of Pawling	$32	$14	44%	$0	0%
Total	$2,462	$263	11%	$0.96	0.04%



Natural Hazards Being Evaluated

Summary Results of the Hazard Identification and Evaluation Process

ATMOSPHERIC

- ☐ Avalanche
- ☑ Extreme Temperatures
- ☑ Extreme Wind
- ☐ Hailstorm
- ☑ Hurricane and Tropical Storm
- ☑ Lightning
- ☑ Nor'easter
- ☑ Tornado
- ☑ Winter Storm

HYDROLOGIC

- ☐ Coastal Erosion
- ☑ Dam Failure
- ☑ Drought
- ☑ Flood
- ☑ Ice Jams
- ☐ Storm Surge
- ☐ Wave Action

GEOLOGIC

- ☑ Earthquake
- ☐ Expansive Soils
- ☐ Landslide
- ☐ Land Subsidence
- ☐ Tsunami
- ☐ Volcano

OTHER

- ☑ Wildfire

☑ = Hazard considered significant enough for further evaluation through the multi-jurisdictional hazard risk assessment.

23 natural hazards evaluated
13 considered significant enough for further evaluation through risk assessment

Project Progress Timeline to Draft Plan

- Kickoff Meeting: September 2008
- Plan Development: Ongoing
- Local Feedback: Ongoing
- Risk Assessment Interim Deliverable: March 2009
- Risk Assessment Q&A Session: March 2009
- Mitigation Strategy Working Session: April 2009
- Draft Plan: May 2009

Questions and Answers