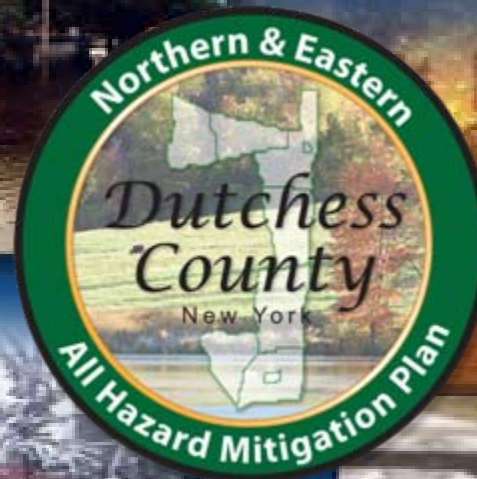


Northern and Eastern Dutchess County Communities Regional

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*

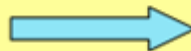
+ support from our consultants at **URS**



What is hazard mitigation?

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

Mitigation



Disaster Resistance



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

TURS



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.

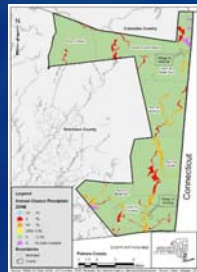


Table XXX
Flood Data by Municipality: Improved Property Values in Identified Flood Hazard Areas
(Source: FEMA 05 Flood Data)

Municipality	Total Improved Value (millions)	Value in High Flood Risk Areas		Value in Moderate Flood Risk Areas	
		(millions)	%	(millions)	(millions)
Armonk	\$404	\$0	0%	\$0	0%
Cookman	\$1,716	\$0	0%	\$0	0%
Cover	\$173	\$13	8%	\$0	0%
Hyden	\$26	\$0	0%	\$0	0%
Northeast	\$263	\$8	3%	\$0	0%
Orange	\$11	\$1	14%	\$0	0%
Pine Plains	\$38	\$3	7%	\$0	0%
T. of Millerton	\$9	\$0	0%	\$0	0%
T. of Poughkeepsie	\$20	\$14	44%	\$0	0%
Total	\$7,402	\$26	1%	\$0	0%





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

