



**APPENDIX E –  
PARTICIPATING JURISDICTIONS MITIGATION ACTION  
IMPLEMENTATION STRATEGIES**

Revised

IMPLEMENTATION STRATEGY WORKSHEET



(Name of Jurisdiction) = Town of Ameria

Page 1

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PRIORITY	Mitigation Action	Please list the hazards that the action will address.	Please say whether the action will affect existing assets, future assets, or both?	What municipal department will take the lead on moving forward with the project?	What is the existing authority or local planning mechanism through which the action can be implemented?	What is the target date for project completion?	What is the estimated cost of the project? (order of magnitude dollars, or qualitative high/med/low)	What funding source do you anticipate? (i.e., local staff time, local budget, grant funding, etc.)
property protection natural resource protection	Removal of debris from creek & streams will need legal assistance for private property access	flooding	Both	Town Board, NYS DES DC Soil & Water	Town Board & Master Plan	2012	med	grants, local budget, legal fees staff time
structural project 2.	Drainage enhancement through culverts & channeling to prevent flooding & maintain bridge integrity	flooding	Both	Town Board DC & NYS DEC	Town Board	2012	high	grants & local budget local staff
structural project 3.	Increase # of culverts to targeted flooding areas for identified roadways & culverts w/ repetitive flood related areas	Run off to creeks, roads & landowners	Both	Town Board DC & NYS DEC	Town Board	2016	high	grants local budget
property protection structural project 4.	Implement erosion controls for areas with runoff to creeks, roads & landowners.	Runoff to creek roads & land owners	Both	Town Board Town Highway	Town Board Master plan	2015	med	grants local
public education emergency services 5.	Develop & distribute information about emergency preparedness during extreme weather events (emergency plans, water, food first aid shelter)	Extreme wind	Both	Town Board State & local Red Cross, Fire Dept, Police Agencies	Town Board	2011	Med	local staff time local budget grants.

Revised IMPLEMENTATION STRATEGY WORKSHEET



(Name of Jurisdiction) = Town of America

Page 1

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property protection natural resource protection	Removal of debris from creek & streams will need legal assistance for private property access	Flooding	Both	Town Board, NYS DES DC Soil & Water	Town Board of Master Plan	2012	med	grants, local budget, legal fees, staff time
structural project 2.	Drainage enhancement through culverts & channeling to prevent flooding of Mountain Bidge Jct. gully	flooding	Both	Town Board DC & NYS DEC	Town Board	2012	High	grants & local budget, local staff
structural project 3.	Increase # of culverts to targeted flooding areas for identified roadways & culverts w/ repetitive flood related areas	Run off to Creeks, Roads & landowners	Both	Town Board DC & NYS DEC	Town Board	2014	High	grants local budget
property protection structural project 4.	Implement erosion controls for areas with runoffs to creeks, roads & landowners.	Runoff to creek Roads & land owners	Both	Town Board Town Highway	Town Board Master plan	2015	med	grants local
public education emergency services 5.	Develop & distribute information about emergency preparedness during extreme weather events (emergency plan, water, food first aid shelter)	Extreme Wind	Both	Town Board Sports & local bid Cems, Fire Dept, Police Agencies	Town Board	2011	med	local staff time local budget grants.

(Name of Jurisdiction)

Town of America

Mitigation action, program or project (project type: prevention, property protection, public education, natural resource protection, emergency services or structural projects)	Hazard(s) addressed	Applies to existing or new structures	Existing local planning mechanism through which action will be implemented	Responsible Party	Target date	Estimated cost (\$)	Funding source	Priority
<u>Public awareness program on Hazards, Prevention, and Mitigation:</u> Assist CPG Chairperson in maintenance of mitigation planning web presence; assist CPG Chairperson in preparation of annual hazards and mitigation planning fact sheet and its distribution; assist CPG Chairperson in preparation of hazards survey; 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 the jurisdiction (incorporating as much free information as possible from the FEMA Publications Warehouse and other appropriate sources). (public education)	All	The education itself doesn't directly apply to either existing or new structures, but any subsequent activities undertaken by those educated could impact both existing and new structures as well as other types of assets such as the population itself	NA	Town Board State & Local Agencies	2011	Low	Local budget	Med
<u>Code update:</u> 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)	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	Town Board Town Clerk	2016	Staff time	Local budget	Low
<u>Code enforcement:</u> Enforcement of NYS and Local Building Codes with Continual CEO training. (prevention)	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	Town Board Code Enforcer Town Clerk	Annual	Staff time	Local budget	Low

Prepared by:

Name Wayne Euvrard  
 Title IT Supervisor  
 Telephone (845) 373-8860 x101p

Revised IMPLEMENTATION STRATEGY WORKSHEET



(Name of Jurisdiction)

Beckman

Before completing this form, your jurisdiction should already have considered the full range of possible mitigation actions set forth in the Risk Assessment Interim Deliverable, selected a subset of the actions that your jurisdiction would like to implement, AND filled out the "Prioritization Worksheet". Now, on this page, translate from the "Prioritization Worksheets" each action and its priority rank, then fill in the remainder of the row

PRIORITY	Mitigation Action	Please list the hazards that the action will address.	Please say whether the action will affect existing assets, future assets, or both?	What municipal department will take the lead on moving forward with the project?	What is the existing authority or local planning mechanism through which the action can be implemented?	What is the target date for project completion?	What is the estimated cost of the project? (order of magnitude dollars, or qualitative high/med/low)	What funding source do you anticipate? (i.e., local staff time, local budget, grant funding, etc.)
public education Medium	Prepare and post on Hazards Action Town Web Page information about any season. Provide survival & subsistence instructions.	Extreme Wind	Both	Town Board	Town Board	12-2010	Low Cost	Town funds
prevention High	Identify homes and settlements in path of destruction if a dam were to break for purposes of public education. This action should be undertaken in conjunction with action(s) proposed for flooding (above)...	Dam failure	Both	Town Board Planning	Town Board	12-2010	Low Cost	Town Funds
prevention High	Identify owners/responsible parties for dam maintenance and inspection agencies for all dams, whether or not within Town of Beckman. Likewise, research physical condition, record of inspections and maintenance. Visually inspect dams using qualified members of Town Hazards Action Corps (see above)	Dam failure	Both	Town Board Planning	Code Enforcement Building Dept	12-2010	Low Cost	Town Funds
emergency services High	Implement system though which residents in harm's way during a dam break can be warned in order to provide advance notice.	Dam failure	Both	Town Board Planning	Code Enforcement Building dept	12-2010	Low Cost	Town Funds
prevention High	Evaluate condition of spillways (intended to release water in a manageable way so as not to inundate downstream areas).	Dam Failure	Both	Town Board Planning	Code Enforcement Building Dept	12-2010	Low Cost	Town Funds

Revised IMPLEMENTATION STRATEGY WORKSHEET



(Name of Jurisdiction) Beekman

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public education High	Expand official town website to include 'Hazard Resource Page'. Page to contain general information on hazard mitigation/response, as well as current updated information on hazard threats/imminent hazards. Encourage short wave radios and other technology no subject to problems with the power grid.	All Potential Hazards	Both	Code Enforcement	Building/Planning	12-2010	Low Cost	Town Funds
public education High emergency services	Establish 'Town of Beekman Hazards Action Corps, to be comprised of local corps of residents with specialized knowledge regarding various hazards and response techniques. Those listed can enhance awareness of hazards and provide advance knowledge when presented with imminent threats.	All Potential Hazards	Both	Code Enforcement	Building/Planning	12-2010	Low Cost	Town Funds
public education High	Issue guidelines on Official Town Hazards Web Page providing information for survival and subsistence during hazard events, including: batteries, transistor radio (technological communications devices may be down for some time, water, food, safe haven to ride out storm)..	All Potential Hazards	Both	Code Enforcement	Building/Planning	12-2010	Low Cost	Town Funds
prevention High	Update Town maps using recently updated FEMA data. Create high-quality electronic and hard-copy flood hazard maps; make available to residents. Maps should clearly indicate Floodways, 25-year, 100-year and 500-year floodplains.	Flooding	Both	Town Board	Zoning Update Committee	12-2010	\$60,000.00	Town Funds Grants
prevention High	Review existing local policies & regulations pertaining to flood hazard. Update and/or adjust policies and regulations to maximize flood hazard avoidance	Flooding	Both	Town Board	Zoning Update Committee	12-2010	\$60,000.00	Town Funds Grants

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public education Low	Any significant earthquake would likely require outside help from higher levels of government. Post online information providing survival advice, such as abandoning severely damaged buildings during and after an earthquake.	Earthquake	Both	Building Department	Town Board	12-2010	Little or no Cost	Town Funds Grants
public education Low	Provide educational information online. Indoors is likely to be the safest place to wait for the lightning storm to pass.	Lightning	Both	Emergency Team such as EMTS	Town Board	12-2010	Little or no Cost	Town Funds
High prevention	Restrict building in Flood Plains	Flooding	Both	Zoning Update Committee	Zoning Board Town Board Code Enforcement	12-2010	\$65,000.00	Town Funds Grant
High prevention	Eliminate stream channelization	Flooding	Both	Zoning Update Committee	Zoning Board Town Board Code Enforcement	12-2010	\$65,000.00	Town funds Grants
High prevention	Implement Buffer for streams & wetlands	Flooding	Both	Zoning Update Committee	Zoning Board Town Board Code Enforcement	12-2010	\$65,000.00	Town Funds Grants

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(Name of Jurisdiction) Beekman



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Med prevention	Identify geographical areas of potential concern. Research historical locations of wildfires in Beekman and immediately surrounding communities.	Wildfire	Both	Planning	Town Board	12-2010	Little or no cost	Town Funds Grants
Med property protection	Assess feasibility of silviculture to reduce fuel sources on forest floor. Remove/harvest fallen or dead trees.	Wildfire	Both	Zoning Update Committee	Town Board	12-2010	Little or no cost	Town Funds Grants
Med public education	Publish information on town hazards webpage recommending the keeping of extra food and water provisions.	Winter Storm	Both	Building	Town Board	12-2010	Little or no cost	Town Funds
Med emergency services	Establish Volunteer Squad to visit/assist households occupied by elderly residents. Extreme temperatures are a significant threat and many are not able to take measures to protect themselves singlehandedly.	Extreme Temperature	Both	Emergency Medical Team..... Work with local EMTS..	Town Board	12-2010	Little or no cost	Town funds Grants
Med public education	Issue guidance on hazards webpage, such as: maintain new batteries, transistor radio. Keep supplies of non-perishable food in homes. If power outage were to persist longer than 24 hours, extra vigilance may be necessary to maintain order. Neighbors may collaborate to protection of the neighborhood residents and property...	Power Outages	Both	Building	Town Board	12-2010	Little or no cost	Town Funds

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Beekman

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property Low protection	Develop Emergency plan for tree removal near power lines.	Winter Storm	Both	Code Enforcement	Town Board Zoning Board	12-2010	Little or no Cost \$5,000.00	Town Funds Grants

(Name of Jurisdiction) Town of Beekman, NY

Mitigation action, program or project (project type: prevention, property protection, public education, natural resource protection, emergency services or structural projects)	Hazard(s) addressed	Applies to existing or new structures	Existing local planning mechanism through which action will be implemented	Responsible Party	Target date	Estimated cost (\$)	Funding source	Priority
<u>Public awareness program on Hazards, Prevention, and Mitigation:</u> Assist CPG Chairperson in maintenance of mitigation planning web presence; assist CPG Chairperson in preparation of annual hazards and mitigation planning fact sheet and its distribution; assist CPG Chairperson in preparation of hazards survey; 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 the jurisdiction (incorporating as much free information as possible from the FEMA Publications Warehouse and other appropriate sources). (public education)	All	The education itself doesn't directly apply to either existing or new structures, but any subsequent activities undertaken by those educated could impact both existing and new structures as well as other types of assets such as the population itself	NA	TOWN BOARDS  CPG CHAIRPERSON	12-31-2010	Low	Local budget	HIGH
<u>Code update:</u> 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)	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	TOWN BOARDS  BUILDING DEPARTMENTS  FIRE DEPARTMENT	12-31-2010	Staff time	Local budget	HIGH
<u>Code enforcement:</u> Enforcement of NYS and Local Building Codes with Continual CEO training. (prevention)	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	TOWN BOARDS  BUILDING DEPARTMENTS  NYS	12-31-2010	Staff time	Local budget	HIGH

Prepared by:

Name \_\_\_\_\_ Barbara Zulauf  
 Title \_\_\_\_\_ Beekman Councilwoman  
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# Implementation Strategy Table - [REDACTED]

(Source: FEMA Region 2 ToolKit File "4-strat-5b-implementation-sample.doc")

(Name of Jurisdiction) Town of Dover, NY

Mitigation action, program or project <i>(project type: prevention, property protection, public education, natural resource protection, emergency services or structural projects)</i>	Hazard(s) addressed	Applies to existing or new structures	Existing local planning mechanism through which action will be implemented	Responsible Party	Target date	Estimated cost (\$)	Funding source	Priority
Update floodplain ordinance based on forthcoming DFIRM maps to better regulate development, reconstruction, grading and filling of floodprone properties. (prevention)	Flooding	Both	Town Board Planning Board Town Engineer	Town Board	Currently in public hearing process (Spring 2010)	Low	Staff time Town budget	High
Culvert upgrades and replacements and elevations to town roads with special attention to roads with repetitive FEMA-funded restoration and repairs. (structural projects)	Flooding  Soil erosion	Existing	Town Board Town Highway	Town Board	Identification of roads and culverts (completed Summer 2010)  Within 3 years of plan adoption	Med.  25% town match  75% FEMA grant	Staff time Town budget  FEMA FMA grant	High
Develop and disseminate educational materials to all households regarding safety measures related to natural hazards through community and create newsletters, public events and website	All hazards	Both	Town Board Town IT Clerk Town Clerk	Town Board	Within one year of plan adoption	Low	Town budget	High
Create Hazard Information Center with copies of current technical studies of natural resources (public awareness and education)								

Prepared by:

Name Ryan Courtien  
 Title Supervisor, Town of Dover, NY  
 Telephone (845) 832-6111 Ext. 110

(Name of Jurisdiction) Town of Dover, NY

Mitigation action, program or project (project type: prevention, property protection, public education, natural resource protection, emergency services or structural projects)	Hazard(s) addressed	Applies to existing or new structures	Existing local planning mechanism through which action will be implemented	Responsible Party	Target date	Estimated cost (\$)	Funding source	Priority
Acquisition, relocation or rebuilding of repetitive loss properties in Ten Mile River floodplain (property protection)	Flooding	Existing	Town Board Homeowners of repetitively flooded properties	Town Board	Within 3 years of plan adoption ( to investigate FEMA opportunities	Low to investigate  Med to High to acquire, or relocate	FEMA RFC funding  Homeowner participation if applicable	Medium to High
Harlem Valley State Hospital Reservoir Dam repairs and safety management plan (natural resource protection, critical facilities protection, structural project)	Flooding	Existing	Town Board Dover Knolls Development II Corp.	Town Board Dover Knolls Development Corp	Within five years of plan adoption	High	FEMA PDM Program	Medium
Drought ordinance and development of MS-4 stormwater management plan. (prevention)	Drought Flooding Extreme Heat Noreaster	Both	Town Board Planning Board Code Enforcement	Town Board	Within five years of plan adoption	Med. to High	Town budget	Medium
Develop mutual aid agreements with neighboring communities to assist with natural hazard for emergency assistance, equipment, materials and associated services. (prevention)	All hazards	Both	Town Board	Town Board	3 years after plan adoption	Low	Town budget	High

## Prepared by:

Name Ryan Courtien  
Title Supervisor, Town of Dover, NY  
Telephone (845) 832-6111 Ext. 110

Town of Dover AHMP Location Specific Mitigation Actions-  
Culvert Upgrades and Replacements

Prepared: October 2009  
Prepared by: JoAnne Graham, Town High Superintendent and  
Katie Palmer-House, Town Councilwoman

Road Name/Location	Prior damage submitted for FEMA funds	Projected repair(s) needed	Estimated Cost to Town: < \$10,000 \$10- \$25,000 Over \$25,000	Estimated Percentage of In-kind that could be performed by Town Highway: Less than 25% (< 25%) More than 25% * (> 25%)	Overall Priority # 1 (highest) # 5 (lowest)
Weil Rd., Wingdale two locations	No	^ road width 3' pipe (squash) Headwall and wingwalls	To be determined	< 25%	# 2
101 Cooperstown Rd. Dover Plains	No	3' and 4' x 40' culvert Headwall with 2ingwalls	To be determined	< 25%	# 3
Corbin Rd., Dover Plains	No	4' x 40' metal		< 25%	
Brasher Rd., Dover Plains	No	5' x 30" culvert		<25%	
24 Sand Hill Rd., Dover Plains  213 Sand Hill Rd.  227 Sand Hill Rd.	Yes (24)	5' metal ^ road width  4' and headwall (angle)  4' metal 20' headwall to headwall	5 ft. culvert- \$8000  4 ft. culvert- \$7000  2 headwall \$12,000  4 ft. \$4,000 Headwall- \$12,000	< 25%	Combine into one project  # 1
McCort Rd., Dover Plains (near NYSEG Pole #422)	No	3' x 30' pipe	To be determined	< 25%	# 5
Old Forge Rd., Wingdale	Yes	9' culvert with squash pipe	Culvert- \$15,000 Road repair- \$2,000 Headwall- \$10,000	<25%	# 4

\* FEMA funding generally requires a 25% in-kind match of force account (highway dept. labor) or town funding.

(Name of Jurisdiction) Town of Dover, NY

Mitigation action, program or project (project type: prevention, property protection, public education, natural resource protection, emergency services or structural projects)	Hazard(s) addressed	Applies to existing or new structures	Existing local planning mechanism through which action will be implemented	Responsible Party	Target date	Estimated cost (\$)	Funding source	Priority
<u>Public awareness program on Hazards, Prevention, and Mitigation:</u> Assist CPG Chairperson in maintenance of mitigation planning web presence; assist CPG Chairperson in preparation of annual hazards and mitigation planning fact sheet and its distribution; assist CPG Chairperson in preparation of hazards survey; 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 the jurisdiction (incorporating as much free information as possible from the FEMA Publications Warehouse and other appropriate sources). (public education)	All	The education itself doesn't directly apply to either existing or new structures, but any subsequent activities undertaken by those educated could impact both existing and new structures as well as other types of assets such as the population itself	Town Board Town IT Clerk	Town Board	Within one year of plan adoption	Low	Local budget	High
<u>Code update:</u> 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)	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	Town Board Code Enforcement Officer	To begin within 6 months of plan adoption	Staff time	Local budget	High
<u>Code enforcement:</u> Enforcement of NYS and Local Building Codes with Continual CEO training. (prevention)	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	Town Board Code Enforcement Officer	Immediate And ongoing	Staff time	Local budget	High

Prepared by:

Name Ryan Courtien  
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**-Additional Implementation Strategy Table -**

Revised

(Source: FEMA Region 2 ToolKit File "4-strat-5b-implementation-sample.doc")

Town of Milan, NY

Mitigation action, program or project <i>(project type: prevention, property protection, public education, natural resource protection, emergency services or structural projects)</i>	Hazard(s) addressed	Applies to existing or new structures	Existing local planning mechanism through which action will be implemented	Responsible Party	Target date	Estimated cost (\$)	Funding source	Priority
Drought management ordinance to address short and long-term drought events including approx. 3,500 of existing crop and pasturelands (prevention)	Drought	Both	Town Board Planning/Zoning Boards	Town Supervisor	3 years	Staff time	Town Budget	Medium
Update Chapter 121 of Milan Town Code to include defensible space mitigation in wildfire risk areas -10,281 acres have been identified as "at risk improved property" in the DC AHMP wildfire profile for Milan or a 28.6% urban-wildfire interface miles. (prevention)	Wildfire	Both	Existing local codes and ordinances  Town Board Planning/Zoning Boards	Town Supervisor	3 years	Staff time	Town Budget	Medium
Culvert and drainage upgrades and replacements on floodprone roads and for stormwater management (property protection and structural projects)	Flooding Erosion Control	Salisbury Turnpike, Knob Hill Rd., Fitzsimmons Rd. and Torre Rock Road	Town Board	Town Supervisor  Town Board Hwy Superintendent	3 to 5 years	Town budget  FEMA grant	Town budget  County grant	High
Update Town Code Chapter 127 (Flood Damage Prevention) ordinance- adopted in 1987 (prevention)	Flooding	Both	Town Board Planning/Zoning Boards	Town Board	3 years	Staff time	Town Budget	High
Information on precautions during ice storms developed and disseminated to all Milan households in print and posted to Town of Milan website (public education and awareness)	Ice storm (recent significant form in Milan- December 2008)	Both	Town Board	Town Board	2 years	Staff time	Town Budget	High

Prepared by:

Name David Byrne  
 Title Town Board  
 Telephone 518-391-5980

(Name of Jurisdiction) Milan

Mitigation action, program or project (project type: prevention, property protection, public education, natural resource protection, emergency services or structural projects)	Hazard(s) addressed	Applies to existing or new structures	Existing local planning mechanism through which action will be implemented	Responsible Party	Target date	Estimated cost (\$)	Funding source	Priority
<u>Public awareness program on Hazards, Prevention, and Mitigation:</u> Assist CPG Chairperson in maintenance of mitigation planning web presence; assist CPG Chairperson in preparation of annual hazards and mitigation planning fact sheet and its distribution; assist CPG Chairperson in preparation of hazards survey; 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 the jurisdiction (incorporating as much free information as possible from the FEMA Publications Warehouse and other appropriate sources). (public education)	All	The education itself doesn't directly apply to either existing or new structures, but any subsequent activities undertaken by those educated could impact both existing and new structures as well as other types of assets such as the population itself	NA	TB	1-2 yrs	Low	Local budget	HIGH
<u>Code update:</u> 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)	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	TB	3 yrs	Staff time	Local budget	MED
<u>Code enforcement:</u> Enforcement of NYS and Local Building Codes with Continual CEO training. (prevention)	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	CEO	1 yr	Staff time	Local budget	HIGH

Prepared by:

Name David Byrne  
 Title Town Board  
 Telephone 518-391-5980

Revised **Implementation Strategy Table** - [REDACTED]

June 2010

(Source: FEMA Region 2 ToolKit File "4-strat-5b-implementation-sample.doc")

(Name of Jurisdiction) Village of Millerton, NY

Mitigation action, program or project <i>(project type: prevention, property protection, public education, natural resource protection, emergency services or structural projects)</i>	Hazard(s) addressed	Applies to existing or new structures	Existing local planning mechanism through which action will be implemented	Responsible Party	Target date	Estimated cost (\$)	Funding source	Priority
Public awareness and education on hazard prevention and mitigation including establishing of a Hazard Information Center (public education) <i>(See previous worksheet)</i>	All hazards	Both	Village Board	Village Board	Within year after plan adoption	\$500	Village Budget Staff time	High
Code Update and Code Enforcement <i>(See previous worksheet)</i> - (prevention)	All hazards	Both	Village Board	Village Board	Immediate	Low	Village budget	High
Culvert replacement along South Center Street, Dutchess Avenue and Simmons Street in the Village of Millerton (structural project)	Flooding	Both	Village Board Village Highway Dept.	Village Board	Within 3 years of plan adoption	\$150,000 - \$200,000	Village budget FEMA grant	Med
Replace South Center Street Bridges # 1 and # 2 in Village of Millerton (structural project)	Flooding	Both	Village Board Village Highway Dept.	Village Board	3 to 5 years after plan adoption	\$100,000	Village budget  FEMA grant	Med
Emergency water allocation ordinance (prevention)	Drought	Both	Village Board	Village Board	2 years after plan adoption	\$2,000	Village budget	High
Overhead tree limb pruning, inventory of vulnerable trees and landscaping practices on Villages roads to reduce winter-related travel hazards (natural resource protection)	Winter Storm	Both	Village Board Village Highway	Village Board	1-2 years after plan adoption	\$1,000	Village budget	High

Prepared by:

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 Title Village Clerk, Village of Millerton, NY  
 Telephone (518) 789-4489

(Name of Jurisdiction) Village of Millerton

Mitigation action, program or project <i>(project type: prevention, property protection, public education, natural resource protection, emergency services or structural projects)</i>	Hazard(s) addressed	Applies to existing or new structures	Existing local planning mechanism through which action will be implemented	Responsible Party	Target date	Estimated cost (\$)	Funding source	Priority
<u>Public awareness program on Hazards, Prevention, and Mitigation:</u> Assist CPG Chairperson in maintenance of mitigation planning web presence; assist CPG Chairperson in preparation of annual hazards and mitigation planning fact sheet and its distribution; assist CPG Chairperson in preparation of hazards survey; 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 the jurisdiction (incorporating as much free information as possible from the FEMA Publications Warehouse and other appropriate sources). <i>(public education)</i>	All	The education itself doesn't directly apply to either existing or new structures, but any subsequent activities undertaken by those educated could impact both existing and new structures as well as other types of assets such as the population itself	NA	Village Boards	2011	Low	Local budget	High
<u>Code update:</u> 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. <i>(prevention)</i>	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	Village Boards And Enforcement Officer	2012	Staff time	Local budget	Low
<u>Code enforcement:</u> Enforcement of NYS and Local Building Codes with Continual CEO training. <i>(prevention)</i>	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	Village Boards And Enforcement Officer	2010	Staff time	Local budget	High

Prepared by:

Name Amber Jordan  
 Title Clerk  
 Telephone (518) 789-4489

June 2010

Town of North East - Page 1 of 3 **Revised** IMPLEMENTATION STRATEGY WORKSHEET



Before completing this form, your jurisdiction should already have considered the full range of possible mitigation actions set forth in the Risk Assessment Interim Deliverable, selected a subset of the actions that your jurisdiction would like to implement, AND filled out the "Prioritization Worksheet". Now, on this page, translate from the "Prioritization Worksheets" each action and its priority rank, then fill in the remainder of the row

	PRIORITY	Mitigation Action	Please list the hazards that the action will address.	Please say whether the action will affect existing assets, future assets, or both?	What municipal department will take the lead on moving forward with the project?	What is the existing authority or local planning mechanism through which the action can be implemented?	What is the target date for project completion?	What is the estimated cost of the project? (order of magnitude dollars, or qualitative high/med/low)	What funding source do you anticipate? (i.e., local staff time, local budget, grant funding, etc.)
prevention	Med	Update Municipal Codes on Flood Damage Protection and Zoning Provisions	General	Both	Town Board	Town Board County Planning Department	2012	\$5,000 to \$10,000	Local Budget
public education	Med	Establish All Hazards Mitigation Plan library to contain local and regional plan documents	General	Both	Town Board	Town Board	2011	\$500	Local Staff
public education	Low	Develop Public Awareness Materials and disseminate information on availability to town residents	General	Both	Town Board	Town Board	2013	\$5,000	Local Staff
critical facilities protection	High	Critical Facility - Flood-proofing / Relocation of Town Highway Garage, Salt Storage & Fueling Center	Flooding	Both	Town Board	Town Board NYS DEC	2012	\$2,000,000	Grant Funding & Bonding
structural project	Med	Town Highway Drainage Improvement - Culvert Replacement (Resize to larger) Skunks Misery Road	Flooding	Existing	Town Highway Dept.	Town Board Town Highway Dept. NYS DEC	2013	\$150,000 to \$200,000	Local Staff & Grant Funding
structural project	High	Town Highway Drainage Improvement - Mill Road - Phase One Restore existing culvert under Rail Bed & Restore drainage channel in Under Pass	Flooding	Both	Town Highway Dept.	Town Board Town Highway Dept. NYS DEC County DPW County SWCD	2012 - 2013	\$5,000 to \$10,000	Local Staff

Revised IMPLEMENTATION STRATEGY WORKSHEET

Town of North East - Page 2 of 3



Before completing this form, your jurisdiction should already have considered the full range of possible mitigation actions set forth in the Risk Assessment Interim Deliverable, selected a subset of the actions that your jurisdiction would like to implement, AND filled out the "Prioritization Worksheet". Now, on this page, translate from the "Prioritization Worksheets" each action and its priority rank, then fill in the remainder of the row

	PRIORITY	Mitigation Action	Please list the hazards that the action will address.	Please say whether the action will affect existing assets, future assets, or both?	What municipal department will take the lead on moving forward with the project?	What is the existing authority or local planning mechanism through which the action can be implemented?	What is the target date for project completion?	What is the estimated cost of the project? (order of magnitude dollars, or qualitative high/med/low)	What funding source do you anticipate? (i.e., local staff time, local budget, grant funding, etc.)
structural project	High	Mill Road - Phase Two Clearance of stream channels upstream and downstream of Rail Bed	Flooding	Both	Town Highway Dept.	Town Board Town Highway Dept. NYS DEC County DPW County SWCD	2013 - 2014	\$25,000 to \$35,000	Grant Funding
structural project	High	Mill Road - Phase Three Install new drainage culvert in Rail Bed & Replace highway culvert (Resize to larger culvert)	Flooding	Both	County DPW & Town Highway Dept.	Town Board Town Highway Dept. NYS DEC County DPW County SWCD	2014 - 2015	\$750,000 +	Grant Funding
structural project	Med	Mill Road - Phase Four Wetlands Restoration- Install flow control structures in wetland area upstream of Mill Road	Flooding	Both	County SWCD & Town Highway Dept.	Town Board Town Highway Dept. NYS DEC County DPW County SWCD	2015 - 2016	TBD	Grant Funding
prevention	Low	Develop Policies & Procedures with Water Supplier to establish use restrictions during periods of drought.	Drought	Both	Town Board	Town Board Millerton Village Bd.	2012	\$1,000	Local Budget
public education	Low	Provide information on local earthquake hazards & property owner mitigation steps.	Earthquake	Both	Town Board	Town Board	2013	*Included in Public Awareness Materials	Local Staff
critical facilities protection	Med	Develop Protection Plan for Town Critical Facilities	Lightning	Existing	Town Board & Town Highway Dept.	Town Board	2012	\$1,000	Local Budget

Revised IMPLEMENTATION STRATEGY WORKSHEET



Town of North East - Page 3 of 3

Before completing this form, your jurisdiction should already have considered the full range of possible mitigation actions set forth in the Risk Assessment Interim Deliverable, selected a subset of the actions that your jurisdiction would like to implement, AND filled out the "Prioritization Worksheet". Now, on this page, translate from the "Prioritization Worksheets" each action and its priority rank, then fill in the remainder of the row

natural  
resource protection  
public  
education  
prevention  
public  
education  
public  
education

PRIORITY	Mitigation Action	Please list the hazards that the action will address.	Please say whether the action will affect existing assets, future assets, or both?	What municipal department will take the lead on moving forward with the project?	What is the existing authority or local planning mechanism through which the action can be implemented?	What is the target date for project completion?	What is the estimated cost of the project? (order of magnitude dollars, or qualitative high/med/low)	What funding source do you anticipate? (i.e., local staff time, local budget, grant funding, etc.)
Low	Investigate sources of funding to assist private dam owners to complete needed repair or maintenance	Dam Failure	Existing	Town Board	Town Board County SWCD	2012	\$1,000	Local Staff
Low	Develop & disseminate information on wildfire hazards & property owner mitigation steps	Wildfire	Both	Town Board	Town Board	2013	*Included in Public Awareness Materials	Local Staff
Low	Develop Policies & Procedures for declarations of emergencies and town roadway closures/ Develop & disseminate materials on storm hazards and access to storm regulation information	Winter Storm	Both	Town Board	Town Board Town Highway Dept. County Emergency Response Dept.	2013	*Included in Public Awareness Materials	Local Staff
Low	Develop and disseminate information on protection of structures from cold weather	Extreme Temperature	Both	Town Board	Town Board	2013	*Included in Public Awareness Materials	Local Staff
Low	Develop and disseminate information about household emergency preparedness during extreme wind related events	Extreme Wind	Both	Town Board	Town Board	2013	*Included in Public Awareness Materials	Local Staff

(Name of Jurisdiction) **Town of North East**

Mitigation action, program or project (project type: prevention, property protection, public education, natural resource protection, emergency services or structural projects)	Hazard(s) addressed	Applies to existing or new structures	Existing local planning mechanism through which action will be implemented	Responsible Party	Target date	Estimated cost (\$)	Funding source	Priority
<u>Public awareness program on Hazards, Prevention, and Mitigation:</u> Assist CPG Chairperson in maintenance of mitigation planning web presence; assist CPG Chairperson in preparation of annual hazards and mitigation planning fact sheet and its distribution; assist CPG Chairperson in preparation of hazards survey; 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 the jurisdiction (incorporating as much free information as possible from the FEMA Publications Warehouse and other appropriate sources). (public education)	All	The education itself doesn't directly apply to either existing or new structures, but any subsequent activities undertaken by those educated could impact both existing and new structures as well as other types of assets such as the population itself	NA	Town Board	2013	\$5,000	Local Staff	Low
<u>Code update:</u> 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)	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	Town Board	2012	\$5,000 - \$10,000	Local Budget	Med.
<u>Code enforcement:</u> Enforcement of NYS and Local Building Codes with Continual CEO training. (prevention)	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	CEO / Building Inspector, Deputy & Staff	2010 and Annually thereafter	\$33,500	Local Budget	High

Prepared by: Name: D. Sherman R. Stevens  
 Title: Town Supervisor Highway Supt.  
 Telephone: 518-789-3658

(Name of Jurisdiction) Town of Pawling, NY

Mitigation action, program or project (project type: prevention, property protection, public education, natural resource protection, emergency services or structural projects)	Hazard(s) addressed	Applies to existing or new structures	Existing local planning mechanism through which action will be implemented	Responsible Party	Target date	Estimated cost (\$)	Funding source	Priority
Information on safety hazards in response to natural hazards distributed in print, community newsletters and events and posted to the Town of Pawling website (please see other worksheet)  (public awareness and education)	All Hazards	Both	Town Board	Town Board	Within one year of AHMP plan adoption	Low	Town budget	High
Code Update, ongoing Code Enforcement Training and Code Enforcement (please see other worksheet)	All Hazards	Both	Town Board Code Enforcement Officers	Town Board	Immediate and ongoing	Low	Town budget	High
Procurement and installation of emergency generators at town critical facilities including highway garage (critical facilities protection)	All hazards	Both	Town Board	Town Board	Within two years of AHMP plan adoption	Med.	Town budget Possible grant	High
Dam Safety Management Plan for Whaley Lake Dam, Lakeside dam and Holmes Pond (critical facilities protection, natural resource protection, property protection)	Flooding	Both	Town Board	Town Board	Within five years of AHMP plan adoption	Med.	Town budget	High
Culvert installation, upgrades and replacements and roadway re-grading and elevation to Old Route 55 and Dodge Rd. in Pawling (structural project, property protection)	Flooding Soil Erosion	Both	Town Board Town Highway	Town Board	Within five years of plan adoption	High	Town budget	High

## Prepared by:

Name Michael Mayer  
 Title Councilman, Town of Pawling  
 Telephone 845.855.5040

(Name of Jurisdiction) Town of Pawling, NY

Mitigation action, program or project (project type: prevention, property protection, public education, natural resource protection, emergency services or structural projects)	Hazard(s) addressed	Applies to existing or new structures	Existing local planning mechanism through which action will be implemented	Responsible Party	Target date	Estimated cost (\$)	Funding source	Priority
<u>Public awareness program on Hazards, Prevention, and Mitigation:</u> Assist CPG Chairperson in maintenance of mitigation planning web presence; assist CPG Chairperson in preparation of annual hazards and mitigation planning fact sheet and its distribution; assist CPG Chairperson in preparation of hazards survey; 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 the jurisdiction (incorporating as much free information as possible from the FEMA Publications Warehouse and other appropriate sources). (public education)	All	The education itself doesn't directly apply to either existing or new structures, but any subsequent activities undertaken by those educated could impact both existing and new structures as well as other types of assets such as the population itself	NA	Town Board	Within two years of plan adoption	Low	Local budget	High
<u>Code update:</u> 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)	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	Town Board Code Enforcement Officer Zoning Board	Immediately	Staff time	Local budget	High
<u>Code enforcement:</u> Enforcement of NYS and Local Building Codes with Continual CEO training. (prevention)	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	Town Board CEO Zoning Board	Immediately	Staff time	Local budget	High

## Prepared by:

Name Michael Mayer  
 Title Councilman, Town of Pawling  
 Telephone 845.855.5040



Revised  
IMPLEMENTATION STRATEGY

(Name of Jurisdiction)

Village of Pawling

June 2010

Priority	Mitigation Action	What hazards does the action address?	What community assets will be impacted by the action? (indicate: Existing, New, or Both)	Who is responsible for implementing the action? (List Title, Department, or Office – please do not use names)	Identify an existing local planning mechanism through which the action will be implemented.	What is the target date for completion?	How much is the action estimated to cost?	What funding source(s) will be used to fund the action?
prevention High	Stormwater Management MS4	Flooding Soil Erosion Drought	Both	Village and Town Boards	DEC DEP Dutchess Co. Village	2010-2015	Med	Grants Village Budget
structural project High	Culvert Upgrades and replacements to Control Erosion	Flooding Soil Erosion	Both	Village Board	Village Board	2012-2015	Low w/FEMA assistance	Village Match Funds Grants FEMA
property protection High	Tree pruning and landscaping practices to prevent power outages and travel hazards	Winter Storm Extreme Wind Lightning Nor'easter	Both	Village Board Village Highway	Village Board	2011	Med.	Village Budget
critical fac. protection High	Secure emergency power sources for communication and response at critical facilities	All Natural Hazards	Future	Village and Town Boards	Village and Town Boards	ASAP	Med	Village Budget Grants
public education Med	Prepare public awareness materials on natural hazard safety measures (post to Village website)	All Hazards	Both	Village Board	Village Board	ASAP	Med	Village Budget
prevention Med	Inventory of building code compliance for critical Village facilities	All Hazards	Both	Village Board	Village Board	ASAP	Low	Village Budget

Please attach additional pages as needed.

# Implementation Strategy Table - SUPPLEMENT (MAY-JUNE 2010)

(Source: FEMA Region 2 ToolKit File "4-strat-5b-implementation-sample.doc")

(Name of Jurisdiction) Village of Pawling

Mitigation action, program or project <i>(project type: prevention, property protection, public education, natural resource protection, emergency services or structural projects)</i>	Hazard(s) addressed	Applies to existing or new structures	Existing local planning mechanism through which action will be implemented	Responsible Party	Target date	Estimated cost (\$)	Funding source	Priority
<u>Public awareness program on Hazards, Prevention, and Mitigation:</u> Assist CPG Chairperson in maintenance of mitigation planning web presence; assist CPG Chairperson in preparation of annual hazards and mitigation planning fact sheet and its distribution; assist CPG Chairperson in preparation of hazards survey; 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 the jurisdiction (incorporating as much free information as possible from the FEMA Publications Warehouse and other appropriate sources). <i>(public education)</i>	All	The education itself doesn't directly apply to either existing or new structures, but any subsequent activities undertaken by those educated could impact both existing and new structures as well as other types of assets such as the population itself	NA	Village Board	2012	Low	Local budget	Low
<u>Code update:</u> 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. <i>(prevention)</i>	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	Village Board	2012	Staff time	Local budget	Low
<u>Code enforcement:</u> Enforcement of NYS and Local Building Codes with Continual CEO training. <i>(prevention)</i>	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	Village Board	2012	Staff time	Local budget	Low

Prepared by:  
 Name Wayne Osborn  
 Title Village Trustee  
 Telephone (845) 855-1122

Revised **Additional Implementation Strategy Table -**

(Source: FEMA Region 2 Toolkit File "4-strat-5b-implementation-sample.doc")

June 2010

Town of Pine Plains, NY

p.3

518-398-6444

Pine Plains Town Clerk

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Mitigation action, program or project (project type: prevention, property protection, public education, natural resource protection, emergency services or structural projects)	Hazard(s) addressed	Applies to existing or new structures	Existing local planning mechanism through which action will be implemented	Responsible Party	Target date	Estimated cost (\$)	Funding source	Priority
Update of Chapter 100-39 (Flood Hazard Areas) of the Town Zoning Code). Additional risk exposure change from Q 3 to DFIRM for Pine Plains is 114% was identified in draft AHMP plan (prevention)	Flooding (Shekomeko Creek and Jansen Kill)	Both	Town Board Planning/Zoning Boards	Town Board	3 years	Staff time	Town budget	High
New drought management ordinance to include provision for approx. 6000 acres of town crop and pasture land identified in AHMP draft plan or 34% of total area. (prevention)	Drought	Both	Town Board Planning/Zoning Boards	Town Board	3 to 5 years	Staff time	Town budget	Medium
New wildfire ordinance including defensible space measures for wildfire risk areas with improved property -7000 acres identified in draft AHMP plan. (prevention)	Wildfire	Both	Town Board Planning /Zoning Boards	Town Board	3 to 5 years	Staff time	Town budget	Medium
Culvert upgrades and replacements on Tripp McGhee Road, Pine Plains (structural project)	Flooding Soil Erosion	Both	Town Board Town Highway	Town Board	3 years	Staff time	Town budget possible CDBG grant	Med. to High
Update of Chapter 100- 40 (Freshwater wetlands) and 100-41 (Local protection of streams) based on forthcoming DFIRM implementation. (natural resource protection)	Flooding Soil Erosion Wetlands protection	Both	Town Board	Town Board	3 to 5 years	Staff time	Town budget	Med to High
Information about safety measures and emergency shelter in extreme cold weather in print and posted to town website (in response to ice storms of Dec. 2008 and Jan. 2009) (public education and awareness)	Ice and Winter Storms Nor'easter	Both	Town Board	Town Board	3 years	Staff time	Town Budget Possible grant funds	High

Prepared by:

Name Robert Coose  
 Title Town Councilman  
 Telephone (518) 398-9600

(Name of Jurisdiction) TOWN OF PINE PLAINS

Mitigation action, program or project (project type: prevention, property protection, public education, natural resource protection, emergency services or structural projects)	Hazard(s) addressed	Applies to existing or new structures	Existing local planning mechanism through which action will be implemented	Responsible Party	Target date	Estimated cost (\$)	Funding source	Priority
<u>Public awareness program on Hazards, Prevention, and Mitigation:</u> Assist CPG Chairperson in maintenance of mitigation planning web presence; assist CPG Chairperson in preparation of annual hazards and mitigation planning fact sheet and its distribution; assist CPG Chairperson in preparation of hazards survey; 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 the jurisdiction (incorporating as much free information as possible from the FEMA Publications Warehouse and other appropriate sources). (public education)	All	The education itself doesn't directly apply to either existing or new structures, but any subsequent activities undertaken by those educated could impact both existing and new structures as well as other types of assets such as the population itself	NA	Town/BD	ONGOING	Low	Local budget	Low
<u>Code update:</u> 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)	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	BLDG/ ZONING OFFICER	CURRENT	Staff time	Local budget	Low
<u>Code enforcement:</u> Enforcement of NYS and Local Building Codes with Continual CEO training. (prevention)	All	Primarily applies to new structures (though would also apply to improvements made to existing structures in some circumstances)	Existing local codes and ordinances	BLDG/ ZONING OFFICER	CURRENT	Staff time	Local budget	Low

Prepared by:

Name ROBERT COUSE

Title COUNCILMAN

Telephone (578) 398-8600

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Pine Plains Town Clerk

518-398-6444

p.6