

**JURISDICTIONAL ANNEX 1.2.24: TOWN OF WAWARSING**

Please fill in the contact details for the person filling in this page:		WORKSHEET 1
Name:	Bryant Arms	
Title:	MCO Building Inspector II	
Representing:	Wawarsing, Town of	
Email:	<a href="mailto:wawarsing.codeofficial.ba@gmail.com">wawarsing.codeofficial.ba@gmail.com</a>	
Phone:	845-647-7800 ext5	

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/Community Planner	Brian Schug	<a href="mailto:voebuilding@hvc.rr.com">voebuilding@hvc.rr.com</a>	845-647-7080 ext310	07/17/14	Yes
Emergency Manager	Santo "Chan" Rivera	<a href="mailto:ul42commish@aol.com">ul42commish@aol.com</a>	845-853-3028	01/01/14	Yes
Floodplain Manager/ Floodplain Administrator	Bryant Arms	<a href="mailto:wawarsing.codeofficial.ba@gmail.com">wawarsing.codeofficial.ba@gmail.com</a>	845-647-7800 ext5	11/01/13	Yes
Public Works Director / City Engineer	Tony Paes	<a href="http://www.hiway@hvc.rr.com">www.hiway@hvc.rr.com</a>	845-647-1690	07/18/14	Yes
Building Code Official	Bryant Arms	<a href="mailto:wawarsing.codeofficial.ba@gmail.com">wawarsing.codeofficial.ba@gmail.com</a>	845-423-0046	11/01/13	Yes
Fiscal/Budget Officer	Leonard Distel	<a href="mailto:wawsupervisor@hvc.rr.com">wawsupervisor@hvc.rr.com</a>	845-647-7800 ext6	01/01/14	Yes
Manager/Administrator	Leonard Distel	<a href="mailto:wawsupervisor@hvc.rr.com">wawsupervisor@hvc.rr.com</a>	845-647-7800 ext6	01/01/14	Yes
Elected Officials	Dan Johnson, Terry Houck, Steve Bradley, Mike Durso	<a href="mailto:wawsupervisor@hvc.rr.com">wawsupervisor@hvc.rr.com</a>	845-647-7800 ext6	2013-01-10	Yes
Other 1: OEM Coordinator	Santo "Chan" Rivera	<a href="mailto:UL42commish@aol.com">UL42commish@aol.com</a>	845-853-3028	01/01/14	Yes
Other 2:	N/A	N/A	N/A	N/A	N/A
Other 3:	N/A	N/A	N/A	N/A	N/A



Name: Bryant Arms Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
Representing: Town of Wawarsing Email and Phone: wawarsing.codeofficial.ba@gmail.com

## Ulster County Multi-Jurisdictional Hazard Mitigation Plan Update - **Worksheet #2**

*Note: This form should be filled out by your floodplain administrator. All communities participating in the National Flood Insurance Program (NFIP) provided FEMA with a floodplain management ordinance and a designated floodplain administrator as a prerequisite to enter the program. All communities are listed in FEMA's Community Status Book of participating communities (08/15/13).*

Adoption Date of your Current Floodplain Management Ordinance	Date of Entry into NFIP <sup>1</sup>	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Is this person a Certified Floodplain Manager?	Is floodplain management an auxiliary function?	Is your community in good standing with the NFIP?		
06/02/1983	9/15/1983	MCO Building Inspector II	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Provide an explanation of NFIP administration services (i.e., permit review, GIS, education or outreach, inspections, engineering capability, etc.):							
Permit review, review by CFM through Planning Board's engineering consultant for site plans, inspections, education, record keeping, substantial damage determinations, Stop Work Orders, interpretations of FIRMI boundaries, certificates of compliance, etc.							
Describe barriers to running an effective NFIP program in the community (if applicable):							
When was most recent FEMA Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?*	Is a CAV or CAC scheduled or needed?	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	Is training of staff regarding NFIP issues planned?	Does your community intend to enforce the floodplain management requirements including regulation in new construction in Special Flood Hazard Areas (SFHAs)?	Does your community intend to continue its participation in the CRS program?	Does your community participate in the CRS? If so, state your Class.	If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?
None	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	<input type="checkbox"/> Yes* <input checked="" type="checkbox"/> No* Class _____	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):							

<sup>1</sup> Your date of entry into the NFIP can be found at: <http://www.fema.gov/eis/NY.html> (column "Reg-Emer Date").



Name: Bryant Arms Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
 Representing: Town of Wawarsing Email and Phone: wawarsing.codeofficial.ba@gmail.com

<b>Provide an explanation of your local floodplain permitting process:</b>							
Receive application, determine flood hazard, require surveyor to obtain minimum compliance height above grade at building location if within floodplain, review proposal's specifications and plans for compliance, issue floodplain development permit and/or other appropriate permit, perform compliance inspections, obtain elevation certificate if in floodplain, issue certificate of occupancy							
Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?   X   Yes     No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?   X   Yes     No	Does your community intend to provide local outreach to promote the sale of flood insurance?   X   Yes     No	Does your community intend to participate in RiskMAP meetings and planning initiatives?   X   Yes     No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?   X   Yes     No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?     Yes   X   No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?   X   Yes     No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?     Yes   X   No
Does your community intend to initiate/continue the buyouts of repetitive loss properties?   X   Yes     No	As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?     Yes   X   No n/a – Wawarsing did not participate	As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?   x   Yes     No	Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?				
* If you answered "yes", that there have been changes to your local program since 2009, please describe:							
Provide a description of your community assistance and monitoring activities:							
Targeted education/outreach is triggered by permit applications or by complaints about un-permitted activities. Financial assistance by the town is not offered.							
NFIP participating communities are required to update/revise their floodplain management ordinance to ensure that it complies with the latest FEMA regulations. Will your community continue to commit to this program requirement?				NFIP participating communities are also required to update/revise their floodplain management ordinance to be consistent with the latest FIRMs. Will your community continue to commit to this program requirement?			
X   Yes     No				x   Yes     No			

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJ1>  
 NFIP claims data by community is maintained at: <http://bsa.nfipstat.fema.gov/reports/1040.htm#34>  
 Information about structures at risk of flooding can be found in Section 3 of the Hazard Mitigation Plan.  
 All NFIP participating communities should encourage local residents to purchase and maintain flood insurance.





## Ulster County Multi-Jurisdictional Hazard Mitigation Plan Update

### Worksheet #3

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Performing an assessment of Land Uses and Development Trends is one step of a FEMA-approved hazard mitigation plan update. This look into the future is important because development in hazard areas could put more assets at risk and, in turn, could work to increase potential disaster-related damages at a time when the mitigation plan's purpose is to reduce the potential for damages emanating from natural disasters. Land uses and development trends are based on the construction of new buildings, demolition of old buildings, or the planning, zoning or subdivision of new areas for development. A stagnant or decreasing population alone is not reason for stating that no development has occurred unless backed up by a lack of development.

An evaluation of land uses and development trends was undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Land Uses and Development Trends section are included in the pages to follow, documenting your community's prior feedback. Please review your community's feedback shown in the table on the pages to follow, and identify any changes that have occurred since that time. Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com). If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Please check box A or B below.**

- ☐ **A) I certify that I have reviewed my community's feedback from the 2009 Land Uses and Development Trends assessment and that all information previously provided is still current.** *(If checking box A, then please return only this cover page.)*
- ☒ **B) I certify that I have reviewed my community's feedback from the 2009 Land Uses and Development Trends assessment and that any information that has changed since that time is clearly shown on the attached markup. Any supporting comments I would like to note are indicated in the lines below.** *(If checking box B, then please return this completed cover page and any pages with markups.)*

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**Name: Mr. Leonard Distel**

**Title: Supervisor**

**Representing: Town of Wawarsing**

**Email and Phone: (845) 647-7800**



## Local Land Uses and Development Trends

For the initial Plan, Core Planning Group members were asked to provide responses to a Land Uses and Development Trends Questionnaire for the individual jurisdictions. This brief questionnaire consisted of the following two questions:

1. Please describe development trends occurring within your jurisdiction, such as the predominant types of development occurring, location, expected intensity, and pace by land use. While details are preferred, it is ok if your feedback is qualitative and quite general, such as *“high-occupancy, high-density residential development is occurring near the waterfront”*.
2. Does your jurisdiction enforce regulations/ordinances/codes to protect new development from the effects of natural hazards? (Some examples might be floodplain management ordinances enforcing FEMA’s NFIP for new development or substantial improvements in the floodplain; steep slope ordinances for community’s which may have landslide hazards; earthquake resistant design criteria and/or high wind design criteria; or buffer zones in wildfire hazard areas.) If so, please describe.

Responses to these two questions, as submitted by each jurisdiction, are presented in the following table (as copied directly from the 2009 Approved Plan).



Table 3d.6 Summary of Responses - Land Uses and Development Trends Worksheet – 2009 Approved Plan (Source: Core Planning Group Members)		
Community	1. Land Uses and Development Trends in Hazard Areas	2. Regulations/Codes/Ordinances To Protect New Development From Natural Hazards
Wawarsing, Town of	Last year and this year, most of our developments are repairs to single family homes, Oak Ridge Roads, Hamlet of Spring Glen, Mountindale Road, Carlo Drive Development in Kerhonkson, Banadies Road, Arrowhead Road, Cape Avenue aka Ulster Heights Road (County of Ulster Road), Lewis Road, Agricultural on Berme Road, South Gully Road.	The Town of Wawarsing enforces current New York State Building code regulations for development in the floodplain. Other hazards such as wind and landslides, the Town follows the New York State Building Code. Future plan to update current Comprehensive Plan to be reviewed.



## Ulster County Multi-Jurisdictional Hazard Mitigation Plan Update

### WORKSHEET 4

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Performing a Capability Assessment is one step of a FEMA-approved hazard mitigation plan update. A mitigation planning Capability Assessment consists of taking an in-depth look at community mechanisms (such as plans, codes, ordinances, staffing, etc.) that can affect hazard mitigation activities. Performing the Capability Assessment helps communities identify the regulatory, administrative, technical, and fiscal capacities and capabilities of their jurisdiction and consider ways that these tools can be used to further hazard mitigation and disaster resiliency goals. Capability Assessments were undertaken by each participating jurisdiction as part of the development of the initial plan. Excerpts from the 2009 Plan's Capability Assessment section are included in the pages to follow, documenting your community's prior feedback.

**First, review your community's feedback shown in the three tables attached, and clearly provide markups to identify any changes that have occurred since that time. Also, complete the highlighted columns which have been added since the plan was last prepared. Check box A or B. (Note: Municipalities whose rows are blank did not submit responses in 2009, and must do so now.)**

- ☐ **A) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that all information previously provided is still current. I have also completed new columns, as highlighted in yellow.**
- ☒ **B) I certify that I have reviewed my community's feedback from the 2009 Capability Assessment and that I have updated any information that has changed since that time (as shown on the attached markup). Any supporting comments I would like to note are indicated in the lines below. I have also completed new columns, as highlighted in yellow.**
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**Then, review and answer the supplemental questions on the last page, and check box C.**

- ☒ **C) I have completed responses to the supplemental questions on Page 6.**

Completed worksheets should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com). If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name: Leonard Distel**

**Title: Supervisor**

**Representing: Town of Wawarsing**

**Email and Phone: (845) 647-7800**

## Legal and Regulatory Capability

**Table 4-1**  
**Legal and Regulatory Capability Inventory**

Jurisdiction	Building Code	Zoning Ordinance	Subdivision Ordinance	Special Purposes Ordinance	Growth Management Ordinance	Site Plan Review Requirements	Comprehensive Plan	Capital Improvements Plan	Economic Development Plan	Emergency Response Plan	Post-Disaster Recovery Plan	Post-Disaster Recovery Ordinance	Real Estate Disclosure Ordinance	Evacuation Plan
Ulster County							√	√	√	√				
Denning, Town of														
Ellenville, Village of														
Esopus, Town of														
Gardiner, Town of	√	√	√	√	√	√	√	√	√	√	√			
Hardenburgh, Town of														
Hurley, Town of	√	√	√	√		√	√			√	√			
Kingston, City of	√	√	√	√		√	√	√	√	√	√			
Kingston, Town of	√	√	√	√		√								
Lloyd, Town of	√	√	√	√	√	√	√			√				
Marbletown, Town of														
Marlborough, Town of	√	√	√	√	√	√	√	√	√	√	√	√		
New Paltz, Town of														
New Paltz, Village of	√	√	√			√	√			√				
Olive, Town of														
Plattekill, Town of														
Rochester, Town of														
Rosendale, Town of														
Saugerties, Town of														
Saugerties, Village of														
Shandaken, Town of	√	√	√	√		√	√			√				
Shawangunk, Town of														
Ulster, Town of	√	√	√	√		√	√			√				
Wawarsing, Town of	x	x	x	x		x	x	x		x	x			
Woodstock, Town of														

## Administrative and Technical Capacity

**Table 4-2**  
**Administrative and Technical Capability Inventory**

[illegible]



Table 4-2 Administrative and Technical Capability Inventory														
Jurisdiction	Planner(s) with knowledge of land development and management practices	Engineer(s) with knowledge of land development and management practices	Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Planner(s) or Engineer(s) with an understanding of natural and/or human caused hazards	Floodplain manager	Surveyors	Staff with education or expertise to assess the community's vulnerability to hazards	Personnel skilled in GIS and/or HAZUS	Scientists familiar with the hazards of the community	Emergency Manager	Grant writers	Code Enforcement Official	Public Works or Highway Superintendent	Emergency Management Coordinator
Saugerties, Village of														
Shandaken, Town of					✓									
Shawangunk, Town of														
Ulster, Town of			✓	✓	✓	✓		✓		✓	✓			
Wawarsing, Town of					×		×			×	×			
Woodstock, Town of														

## Fiscal Capability

**Table 4-3  
Fiscal Capability Inventory**

<b>Jurisdiction</b>	<b>Community Development Block Grants (CDBG)</b>	<b>Capital Improvements Project Funding</b>	<b>Authority to Levy Taxes for Specific Purposes</b>	<b>Fees for Water, Sewer, Gas, or Electric Service</b>	<b>Impact Fees for Homebuyers or Developers for New Developments/Homes</b>	<b>Incur Debt through General Obligation Funds</b>	<b>Incur Debt through Special Tax and Revenue Bonds</b>	<b>Incur Debt through Private Activity Bonds</b>	<b>Withhold Spending in Hazard-Prone Areas</b>	<b>Other (i.e., coastal, sustainability, or climate change initiatives; or Brownfield funds)</b>
Ulster County	√	√				√	√			
Denning, Town of										
Ellenville, Village of										
Esopus, Town of										
Gardiner, Town of		√	√	√		√			√	
Hardenburgh, Town of										
Hurley, Town of			√			√	√	√		
Kingston, City of	√	√	√	√	√	√				
Kingston, Town of	√	√	√	√		√	√			
Lloyd, Town of			√	√	√	√	√		√	
Marbletown, Town of										
Marlborough, Town of	√	√	√	√	√	√	√			
New Paltz, Town of										
New Paltz, Village of		√	√	√	√	√				
Olive, Town of										
Plattekill, Town of										
Rochester, Town of										
Rosendale, Town of										
Saugerties, Town of										
Saugerties, Village of										
Shandaken, Town of				√						
Shawangunk, Town of										
Ulster, Town of	√	√	√	√		√	√			
Wawarsing, Town of	x	x	x	x	x	x	x		x	
Woodstock, Town of										

**Municipality Town of Wawarsing**

<b>Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?</b>	<b>Would you classify your political leadership's willingness to enact policies and programs that reduce hazard vulnerabilities in your community as high, moderate, or low - even if met with opposition? (i.e., guiding development away from identified hazard areas)?</b>
<b>Moderate</b>	<b>Low</b>	<b>Low</b>	<b>Moderate</b>	<b>Moderate</b>
<b>Discuss ways of bridging identified gaps in your local capabilities to ensure that they are in-line with your mitigation actions and goals.</b>				
<b>More inter-governmental cooperation and unity between all Federal, State, County and Town for Emergency Preparedness and mitigation.</b>				

WORKSHEET 5 NOT APPLICABLE

(DID NOT PARTICIPATE IN 2009, SO  
NO PAST PROJECTS TO TRACK)



## Ulster County Multi-Jurisdictional Hazard Mitigation Plan Update

### Worksheet #6

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For a community to succeed in reducing risk in the long term, the information and recommendations of the hazard mitigation plan must be integrated into day-to-day local government operations. Throughout the planning process, partnerships are formed between departments and agencies, and sustained actions between these partners will increase the community's resilience to disasters. "Plan integration" can be thought of as the process whereby each local government will incorporate the mitigation plan findings and projects into other planning mechanisms (governance structures that are used to manage local land use development and community decision making).

For this Plan Update, FEMA requires:

- a summary of each jurisdiction's past progress in plan integration over the last planning cycle; and
- a description of plan integration activities that each jurisdiction expects to undertake over the course of the next planning cycle.

This worksheet has been set up, therefore, into two components with each portion focusing on one of the bullets above.

- Demonstration of Progress over the Last Planning Cycle – In the first component of this worksheet (shaded in blue), we have reiterated the targeted plan integration activities that were included in the last version of the plan (Section 9, beginning on Page 9-4) in a tabular form, and are asking each community to describe their respective accomplishments since the plan was adopted five years ago.
- Targeted Plan Integration Activities for the Next Planning Cycle – Similarly, in the second component of this worksheet (shaded in yellow), we have outlined a series of plan integration activities for the next five-year planning cycle. Please document to FEMA the manner in which your community will commit to integrate the hazard mitigation plan into your local government operations from this point forward.

Where integration activities are carried out by another jurisdiction through an intergovernmental agreement or by another layer of government (such as the county), please include a note on the bottom of this form and reference the section number on this form that the note is referring too.

Feedback should be returned to URS Project Manager Anna Foley at [anna.foley@urs.com](mailto:anna.foley@urs.com). If you have questions or need help, please email Anna or give her a call at 973-883-8562.

**Name:** Leonard Distel

**Title:** Supervisor

**Representing** Town of Wawarsing

**Email and Phone** (845) 647-7800

**DEMONSTRATION OF PAST PROGRESS OVER THE LAST PLANNING CYCLE**

*Please check all activities that your municipality has undertaken over the last five years.*

1. Check here if you (or your predecessor on the CPG) issued a letter to each of your community's department heads to solicit their support and explore opportunities for integrating hazard mitigation planning objectives into their daily activities?	
2. A. Check here if you (or your predecessor on the CPG) worked with your planning department to educate them on the Hazard Mitigation Plan and encourage that on the next update of your master plan, general or comprehensive plan, hazard mitigation for natural hazards is addressed. Please describe your coordination efforts in the space below.	
B. Check here if your municipality does not have a master, general, or comprehensive plan.	
C. Check here if your master, general or comprehensive was updated since 2009.	
D. If you checked box 2C, please check here if natural hazard risk/mitigation was incorporated into the updated document, and describe how in the space below.	
E. If you checked box 2C, please check here if a specific hazard mitigation element was added to the document, and describe in the space below.	
3. Check here if you (or your predecessor on the CPG) coordinated with your building department to ensure that they have adopted and are enforcing the minimum standards established in the current State-adopted IBC. Please describe your coordination efforts in the space below.	
4. A. If your community participates in the NFIP and was only enforcing minimum requirements at the time of the first plan's adoption, check here if you (or your predecessor on the CPG) coordinated with your Floodplain Administrator to determine if enforcement beyond FEMA minimum requirements would be prudent for your community. Please describe your coordination efforts in the space below.	



Community Name Wawarsing

B. Check here if your community was already enforcing regulations beyond FEMA minimum requirements.	
C. Briefly explain here what is currently being enforced beyond FEMA minimum requirements.	
D. Check here if your community has maintained its participation in the NFIP's Community Rating System (CRS).	
E. Check here if your community has joined the CRS since 2009.	
F. Check here if your community has dropped out of the CRS since 2009.	
5. A. Check here if your community has a local zoning ordinance. B. Check here if you (or your predecessor on the CPG) worked with your local zoning board to educate them on the Hazard Mitigation Plan and encourage consideration of low occupancy, low-density zoning in hazard areas, when practicable. Please describe your coordination efforts in the space below.	
6. A. Check here if any job descriptions were revised to include mitigation-related duties to further institutionalize mitigation. B. If so, describe.	
7. A. Check here if capital or operating budgets were revised to include a line item for mitigation project funding. B. Check here if capital or operating budgets already included this when the plan was first adopted.	
8. A. Check here if your Department of Public Works has adopted more rigorous procedures for inspecting and cleaning debris from streams and ditches (i.e., more frequently). B. If so, describe.	
9. A. Check here if your Planning Department has added hazard vulnerability to subdivision and site plan review criteria. B. If so, describe.	
10. (NOTE: A response to #10 is only required for UCECEM; all municipalities, please leave blank) Check here if UCECEM sought to identify a community conservation society or other interested voluntary organization to perform inventories of historic sites in hazard areas that might require special treatment to protect them from specific hazards. B. If so, describe.	
11. Check here if your community has reached out to partner groups in the community (i.e., nonprofit organizations, businesses, etc.) to identify those who may be willing to donate goods or services and create a database of contact information and indicated goods/services. B. If so, describe.	

12. Check here if your community has actively sought citizen volunteers to help implement mitigation programs and activities. B. If so, please describe.	
13. A. (NOTE: A response to #13A is only required for UCECEM; all municipalities, please leave blank) Check here if a list was compiled of state agencies that can lend their time, expertise and funds to the implementation of hazard mitigation projects. B. (NOTE: A response to #13A is only required for UCECEM; all municipalities, please leave blank) Check here if assistance was provided to participating jurisdictions in reaching out to state agencies for support. C. If A or B was checked, please describe.	
14. A. Check here if your community has reached out to colleges and universities for technical assistance with hazard mitigation activities. B. If so, please describe.	
15. A. Check here if your community has met at least once with your local library staff members to discuss the mitigation plan so they are well-versed in its purpose and understand where to direct interested parties for more information, to provide feedback, or to become involved. B. If so, please describe.	

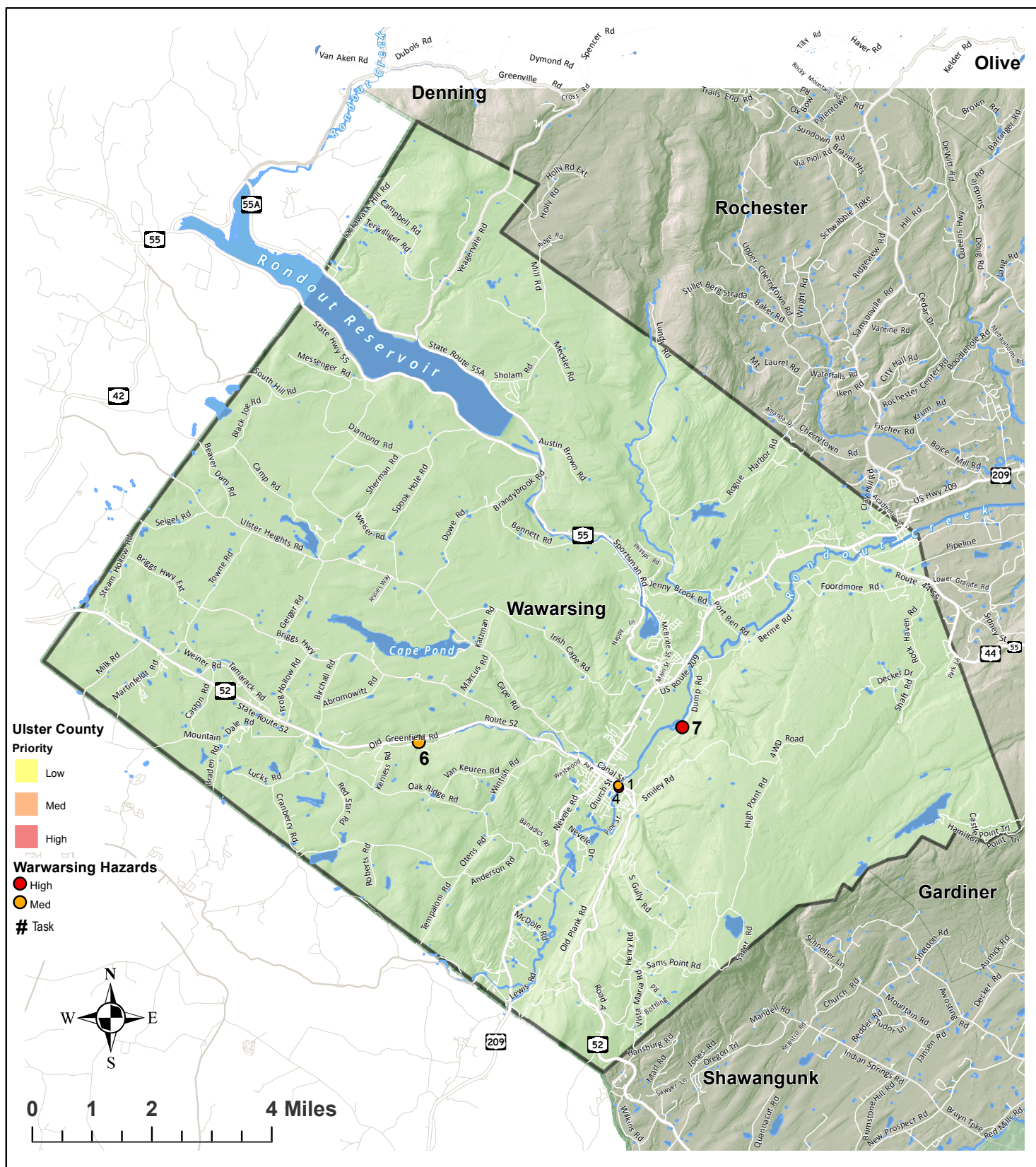
**TARGETED PLAN INTEGRATION ACTIVITIES FOR THE NEXT PLANNING CYCLE**

*Please check all activities that your municipality is committing to undertake over the next five years.*

1. CPG member will issue a letter to each department head to solicit their support and explore opportunities for further integration of hazard mitigation into the daily activities of the community as a whole.	<input checked="" type="checkbox"/>
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	<input checked="" type="checkbox"/>
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	<input checked="" type="checkbox"/>
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC	<input checked="" type="checkbox"/>
4. A. Maintain community participation in FEMA's National Flood Insurance Program.	<input checked="" type="checkbox"/>
B. Enforce codes and standards beyond FEMA minimum requirements.	
C. Join (or continue to maintain participation in) the NFIP's Community Rating System.	
5. Steer growth and development away from high risk locations by using the risk assessment from the hazard mitigation plan as a tool to monitor future updates of community land use plans, zoning and subdivision codes and the development review process.	<input checked="" type="checkbox"/>
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	
8. Revise capital or operating budgets to include a line item for mitigation project funding.	
9. Issue directives to require departments/agencies in the community to carry out certain hazard mitigation activities.	
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	
11. Add hazard vulnerability to subdivision and site plan review criteria.	<input checked="" type="checkbox"/>
12. Perform inventories of historic sites in hazard areas in your community to identify where special treatment may be needed to protect them from specific natural hazards.	<input checked="" type="checkbox"/>
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	<input checked="" type="checkbox"/>
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	
16. Protect life and property in high hazard areas by limiting densities of new development.	<input checked="" type="checkbox"/>
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	<input checked="" type="checkbox"/>
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	<input checked="" type="checkbox"/>
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	<input checked="" type="checkbox"/>
20. Implement hazard mitigation activities through existing plans and policies.	<input checked="" type="checkbox"/>
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	<input checked="" type="checkbox"/>



## Wawarsing Hazard Mitigation Actions



Action Worksheet	
Your plan name	<i>Ulster County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Town of Wawarsing</i>
Community action number	<i>Wawarsing #1 - Backup Generator at Town Hall</i>
Assessing the Risk	
Hazard(s) addressed	<i>all hazard</i>
Risk finding	<i>Town Hall is used as an evacuation center during emergencies. During storm events the building often loses power.</i>
Describing the Action	
Action category	<i>structural</i>
Action type	<i>emergency preparedness</i>
Action description	<i>This project will provide a generator to the Town Hall during power outages to keep town government functioning and to provide comfort level for residents displaced from homes that are using it as an evacuation center/shelter. Location is Longitude: -74.394288, Latitude: 41.717305. Generator would be protected to above the 500 year flood level.</i>
Existing, future &/or NA	<i>n/a</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>Emergency services would be available during storms</i>
Cost estimate	<i>\$30,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Benefits are unquantifiable, but anticipated to be in excess of project costs, for a cost-effective project</i>
Technical	<i>yes</i>
Political	<i>yes</i>
Legal	<i>none</i>
Environmental	<i>none</i>
Social	<i>none</i>
Administrative capability	<i>town board</i>
Local champion	<i>town board</i>
Other community objectives	<i>n/a</i>
Implementing the Action	
Priority	<i>high</i>
Local planning mechanism	<i>NY Rising; local building codes</i>
Responsible party	<i>Town Board</i>
Potential funding sources	<i>NY Rising; CDBG</i>
Time line	<i>one month</i>
Reporting on Progress	

Action progress status	<i>new project</i>
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Action Worksheet	
Your plan name	<i>Ulster County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Town of Wawarsing</i>
Community action number	<i>Wawarsing #2 - Portable Generators at Critical Facilities</i>
Assessing the Risk	
Hazard(s) addressed	<i>all hazard</i>
Risk finding	<i>Key municipal and emergency service facilities (i.e. schools, shelters, gas stations, banks, food stores, etc) lose power for extended periods during storm events.</i>
Describing the Action	
Action category	<i>structural</i>
Action type	<i>emergency preparedness</i>
Action description	<i>This project will provide temporary electrical services to critical areas during power outages to help maintain provision of services keep and would improve recovery efforts following a storm or flood event. Project would greatly increase the Town's preparedness for future flood and other events. Location is Longitude: -74.394288, Latitude: 41.717305. All generators and equipment will be installed to be protected above the 500 year flood level.</i>
Existing, future &/or NA	<i>n/a</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>Emergency services would be available during storms. The entire community would benefit from critical facilities during storm events. Portable generators would allow power to be brought back online at key town facilities including emergency shelters.</i>
Cost estimate	<i>\$20,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Benefits are unquantifiable, but anticipated to be in excess of project costs, for a cost-effective project</i>
Technical	<i>yes</i>
Political	<i>yes</i>
Legal	<i>Town would work closely with those key businesses/facilities that are identified</i>
Environmental	<i>none</i>
Social	<i>none</i>
Administrative capability	<i>town board</i>
Local champion	<i>town board</i>
Other community objectives	<i>n/a</i>
Implementing the Action	
Priority	<i>high</i>
Local planning mechanism	<i>NY Rising; local building codes</i>
Responsible party	<i>Town Board</i>
Potential funding sources	<i>NY Rising; CDBG</i>

<b>Time line</b>	<i>three months</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>new project</i>

Action Worksheet	
Your plan name	<i>Ulster County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Town of Wawarsing</i>
Community action number	<i>Wawarsing #3 - Mobile Water Pumps on Trailer</i>
Assessing the Risk	
Hazard(s) addressed	<i>flooding</i>
Risk finding	<i>Critical facilities have been damaged by inundation from flooding, forcing closure and resulting in long term damage to properties, both during the storm events and after from water damage and mold.</i>
Describing the Action	
Action category	<i>structural</i>
Action type	<i>emergency preparedness</i>
Action description	<i>Purchase of mobile water pumps to be used by the emergency responders and Highway Department to expedite removal of flood water from critical facilities and other key locations. Mobile water pumps would serve the immediate needs and also prevent long term damage by removing standing water. Availability of these pumps would prevent that damage in future events.</i>
Existing, future &/or NA	<i>both</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>Expedited removal of floodwaters would remove the potential for significant structural damage that could result from prolonged water exposure. Additionally, it would improve recovery during and after - bringing back online quickly key town facilities including emergency shelters.</i>
Cost estimate	<i>\$60,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Yes, money saved in long term to proactively address known problem; The start up costs will be high, however over time this project will be cost effective.</i>
Technical	<i>yes</i>
Political	<i>yes</i>
Legal	<i>none</i>
Environmental	<i>removal of standing water minimizes risk of mold growth and contamination resulting from standing water</i>
Social	<i>use of critical facilities during storm events would benefit all</i>
Administrative capability	<i>town board</i>
Local champion	<i>town board</i>
Other community objectives	<i>n/a</i>
Implementing the Action	
Priority	<i>high</i>
Local planning mechanism	<i>NY Rising;</i>
Responsible party	<i>Town Board</i>

Potential funding sources	<i>NY Rising; CDBG</i>
Time line	<i>one month</i>
<b>Reporting on Progress</b>	
Action progress status	<i>new project</i>

Action Worksheet	
Your plan name	<i>Ulster County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Town of Wawarsing</i>
Community action number	<i>Wawarsing #4 - Preemptive Infrastructure Protection - Embankment Stabilization</i>
Assessing the Risk	
Hazard(s) addressed	<i>flooding</i>
Risk finding	<i>Many structures and residential properties are serviced by roads that frequently experience damage due to erosion or inundation from flooding. These roads are the primary ingress/egress and are located along streams in vulnerable areas.</i>
Describing the Action	
Action category	<i>structural</i>
Action type	<i>drainage improvement</i>
Action description	<p><i>This project would mitigate a number of flood-related hazards along several Town, County, and State roads. In these locations (given below), the road embankments are either eroding into the streams below or become inundated with stormwater. In these instances, roads are closed resulting in long detours as well as increased response time for emergency personnel. Locations are:</i></p> <ul style="list-style-type: none"> <li><i>• Spring Glen (Sandburg Creek) - Old Rte 209/State Route 209/Spring Glen Rd/Lewis Rd = Longitude: -74.429677, Latitude: 41.665496;</i></li> <li><i>• Wawarsing hamlet (Vernooy Kill) – State Rte 209/ Port Ben Rd (inundation) / Lundy Rd &amp; Cutler Rd = Longitude: -74.371015, Latitude: 41.768002</i></li> <li><i>• Ellenville (Fantine Kill) – Deepam Lane = Longitude: -74.390960, Latitude: 41.728586</i></li> <li><i>• Ellenville (Beer Kill) – Old Greenfield Road (Coutny Rd) vicinity = Longitude: -74.408363, Latitude: 41.724544</i></li> <li><i>• Cragmoor (South Gully) – South Gully Road = Longitude: Longitude: -74.370965, Latitude: 41.678256, and other additional locations as as yet to be determined.</i></li> </ul>
Existing, future &/or NA	<i>both</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>Substantially reduce damage to existing infrastructure and to neighboring private property</i>
Cost estimate	<i>\$5,000,000-\$8,000,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Yes, money saved in long term to proactively address known problem; The start up costs will be high, however over time this project will be cost effective.</i>
Technical	<i>yes</i>
Political	<i>yes</i>
Legal	<i>All locations are within the Town's jurisdiction, however on County and State Roads - where Wawarsing does not have control, Town will work closely with County/State</i>
Environmental	<i>NYSDEC permit</i>

<b>Social</b>	<i>none</i>
<b>Administrative capability</b>	<i>Town Highway Department; County DPW; NYSDOT (depending upon which roads)</i>
<b>Local champion</b>	<i>Town board</i>
<b>Other community objectives</b>	<i>n/a</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>medium</i>
<b>Local planning mechanism</b>	<i>NY Rising</i>
<b>Responsible party</b>	<i>Town Highway Department; County DPW; State DOT</i>
<b>Potential funding sources</b>	<i>Emergency Watershed Protection (EWP) program; capital budgets, NY Rising; NYSDOT Bridge NY/Local roads</i>
<b>Time line</b>	<i>two years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>new project</i>



Action Worksheet	
Your plan name	<i>Ulster County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Town of Wawarsing</i>
Community action number	<i>Wawarsing #5 - Preemptive Infrastructure Protection - Debris Removal</i>
Assessing the Risk	
Hazard(s) addressed	<i>flooding</i>
Risk finding	<i>Many structures and residential properties are serviced by roads that frequently experience damage due to inundation because of blocked culverts and bridges. These roads are the primary ingress/egress and are located along streams in vulnerable areas.</i>
Describing the Action	
Action category	<i>structural</i>
Action type	<i>drainage improvement</i>
Action description	<i>This project would mitigate a number of flood-related hazards along several Town, County, and State roads. In these locations (given below), the culverts and bridges become inundated with stormwater due to large woody debris and gravel blockages. In these instances, roads are closed resulting in long detours as well as increased response time for emergency personnel. Locations include: • Wawarsing hamlet (Vernooy Kill) – Lundy Rd (inundation of houses due to upstream debris jams) = Longitude: Longitude: -74.360170, Latitude: 41.761166 • Ellenville (Leuren Kill) – Oak Ridge Road / Old Minisink Rd = Longitude: -74.410373, Latitude: 41.696846, and other additional locations as yet to be determined.</i>
Existing, future &/or NA	<i>both</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>Continuous ingress/egress for residents and emergency responders during and after flood events; infrastructure repair costs would be less</i>
Cost estimate	<i>\$300,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Over time, mitigation of repetitively inundated roadways (that sustain damage) and private driveways will be cost effective. Existing conditions require active and on-going maintenance by staff. Benefits are difficult to quantify, but anticipated to be in excess of project cost.</i>
Technical	<i>yes</i>
Political	<i>yes</i>
Legal	<i>All locations are within the Town's jurisdiction, however on County and State Roads - where Wawarsing does not have control, Town will work closely with County/State</i>
Environmental	<i>NYSDEC permit</i>
Social	<i>none</i>
Administrative capability	<i>Town Highway Department; County DPW; NYSDOT (depending upon which roads)</i>

<b>Local champion</b>	<i>Town board</i>
<b>Other community objectives</b>	<i>n/a</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>high</i>
<b>Local planning mechanism</b>	<i>DPW staff have been monitoring and flagged as in need of remediation</i>
<b>Responsible party</b>	<i>Town Highway Department; County DPW; State DOT</i>
<b>Potential funding sources</b>	<i>FEMA HMA grants - Hazard Mitigation Grant Program; NY Rising Community Reconstruction Program; FHWA Emergency Relief Program; Emergency Watershed Protection (EWP) program; capital budget</i>
<b>Time line</b>	<i>one year</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>new project</i>

Action Worksheet	
Your plan name	<i>Ulster County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>Town of Wawarsing</i>
Community action number	<i>Wawarsing #6 - Preemptive Infrastructure Protection - Old Greenfield-Kanfer Park Rd</i>
Assessing the Risk	
Hazard(s) addressed	<i>flooding</i>
Risk finding	<i>Over the years, the West Branch of the Beer Kill has migrated towards this road in many locations and is causing erosion to many road embankments as well as scouring the abutments of a bridge (currently yellow-flagged) at the beginning of a dead end road containing a dozen properties.</i>
Describing the Action	
Action category	<i>structural</i>
Action type	<i>drainage improvement</i>
Action description	<i>This project would stabilize many locations of the 3-mile Old Greenfield Road so that vulnerable portions will not be lost to future flooding. The stream continues to erode the embankments and town DPW is required to conduct annual maintenance in various locations. A longer-term fix is now needed. This project also calls for an engineering study to determine the most appropriate actions to take. Additionally, the abutments to the bridge on Barbara Lane are continuously subjected to high scour and also require routine maintenance by the Town. A more permanent solution is needed so that the bridge on this dead-end road will not be lost to future flooding. Location is from Longitude: -74.486003 Latitude: 41.725757 east to Longitude: -74.439869, Latitude: 41.728352</i>
Existing, future &/or NA	<i>both</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>Continuous ingress/egress for residents and emergency responders during and after flood events; infrastructure repair costs would be less</i>
Cost estimate	<i>\$1-\$3M</i>
Cost effectiveness (i.e., benefit/cost)	<i>Over time, mitigation of repetitively inundated roadways (that sustain damage) and private driveways will be cost effective. Existing conditions require active and on-going maintenance by staff. Benefits are difficult to quantify, but anticipated to be in excess of project cost.</i>
Technical	<i>yes</i>
Political	<i>yes</i>
Legal	<i>none</i>
Environmental	<i>NYSDEC permit required; project will also benefit trout stream due to reducing erosion</i>
Social	<i>none</i>

<b>Administrative capability</b>	<i>Town Highway Department</i>
<b>Local champion</b>	<i>Town board</i>
<b>Other community objectives</b>	<i>n/a</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>medium</i>
<b>Local planning mechanism</b>	<i>DPW staff have been monitoring and flagged as in need of remediation</i>
<b>Responsible party</b>	<i>Town Highway Department</i>
<b>Potential funding sources</b>	<i>FEMA HMA grants - Hazard Mitigation Grant Program; NY Rising Community Reconstruction Program; FHWA Emergency Relief Program; Emergency Watershed Protection (EWP) program; capital budget</i>
<b>Time line</b>	<i>six months</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>new project</i>

## Action Worksheet

Your plan name	Ulster County Multi-Jurisdictional Hazard Mitigation Plan
Your community name	Town of Wawarsing
Community action number	Wawarsing # 7 -preemptive infrastructure protection - Berme Road
	<b>Assessing the Risk</b>
Hazard(s) addressed	Protection of Secondary Access route for the town.
Risk finding	In the event of an emergency that requires Route 209 to be closed, Berme Road is the only, alternative route between Kerhonkson and Ellenville.
	<b>Describing the Action</b>
Action category	Natural Protection
Action Type	Protecting the Berme Road from flooding, snow or other natural hazards will ensure the residents ability to access public safety and minimum required services such as food gas and medical needs.
Action description	Upgrade all culvert pipes, drainage and recondition the road.
Existing, future &/or NA	Maintaining current road conditions and maintaining culvert pipes as needed. Plans for 2016 include minimal road upgrades.
	<b>Evaluating the Action</b>
Losses avoided (i.e., benefits)	In case of an emergency that requires Route 209 to be closed, residents will continue to have access to Ellenville Hospital and the few food stores that will be open between Kerhonkson and Ellenville, They will also have access to fuel for cars and generators. By ensuring a secondary access road the residents wouldn't be sacrificing these basic needs.
Cost estimate	\$850,000.00
Cost effectiveness (i.e., benefit/cost)	Benefits of the residents basic needs (ie, food and emergency medical access) far out weigh the cost of this project.
Technical	Yes
Political	No
Legal	No
Environmental	Since there will be no changes only replacing what is currently there, will have minimal or no environmental impact.

Social	None
Administrative capability	Town Board approval and Highway Departments resources will be sufficient.
Local champion	Town Board
Other community objectives	N/A
	<b>Implementing the Action</b>
Priority	High
Local planning mechanism	Town Board, Highway Superintendent, New York Rising.
Responsible party	Town Board
Potential funding sources	Grants
Time line	When funding becomes available.
	<b>Reporting on Progress</b>
Action progress status	Planning stage for minimal roadway maintenance is completed. Work will commence in the spring of 2016.



## Ulster County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

*Summary of Outreach Activities to the General Public and Other Stakeholders*

#### PARTICIPATING JURISDICTION:

WAWARSING

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
08/06/15	Discussion at Town Board meeting	Discussion about the towns participation in the county Hazard Mitigation program	Lenny Distol Town supervisor wawarsing
08/18/15	Zoning Board Meeting	Distribution of Fact sheet and discussion of Hazard Mitigation Program	Daniel Pollan Town of Wawarsing Code Enforcement Official Barbara Pace- Sec. for the planning board





# ***ATTENTION WAWARSING RESIDENTS***

The Town of Wawarsing is participating in the **Ulster County Multi-Jurisdictional Hazard Mitigation Plan.** Which can be reviewed at **[www.ulstercountyny.gov/emergency-services/hazard-mitigation](http://www.ulstercountyny.gov/emergency-services/hazard-mitigation)**  
Below is a list of areas in Wawarsing so far identified as possible hazard areas in times of flooding.

This list is available for inspection on the town's website ([www.townofwawarsing.net](http://www.townofwawarsing.net)) , at various town bulletin boards and also the town clerk's office at 108 Canal St. Ellenville, NY. 12428.

If you feel this list is not complete, please contact the Town Supervisor's office in writing and identify what you think is a potential hazard area in times of flooding, storms or other natural emergency; the mailing address is the same as the Town Clerk's office.

Your input is important in helping to create a safer community.

- 1) Emergency Back Generator for Town Hall
- 2) Portable Generators for critical services ie: evacuation centers, gas stations banks and food stores
- 3) Water Pump Trucks
- 4) Preemptive Infrastructure Protection- Embankment Stabilization
- 5) Preemptive Infrastructure Protection- Debris Removal
- 6) Preemptive Infrastructure Protection- Old Greenfield Rd- Kanfer Park
- 7) Preemptive Infrastructure Protection- Berme Rd.