

## **JURISDICTIONAL ANNEX 1.2.8: CITY OF KINGSTON**

Please fill in the contact details for the person filling in this page:

Name: Mark Brown	
Title: Fire Chief	
Representing: Kingston, City of	
Email: mbrown@kingston-ny.gov	
Phone: 845 331-1959	

Local Jurisdiction Role/Position	Name	Email	Phone	Date Notified About Mitigation Plan Development Process	Agreed to participate? (Yes/No)
Land Use/ Community Planner	Sue Cahill	<a href="mailto:scahill@kingston-ny.gov">scahill@kingston-ny.gov</a>	(845) 334-3957	10/4/2013	Yes
Emergency Manager	Mark Brown	<a href="mailto:mbrown@kingston-ny.gov">mbrown@kingston-ny.gov</a>	(845) 331-1959	10/3/2013	Yes
Floodplain Manager/ Floodplain Administrator	David Allen	<a href="mailto:dallen@kingston-ny.gov">dallen@kingston-ny.gov</a>	(845) 331-1217	10/4/2013	Yes
Public Works Director /	<a href="#">Mike Schupp</a>	<a href="mailto:mschupp@kingston-ny.gov">mschupp@kingston-ny.gov</a>	(845) 331-0628	10/4/2013	Yes
City Engineer	<a href="#">Ralph Swenson</a>	<a href="mailto:rswenson@kingston-ny.gov">rswenson@kingston-ny.gov</a>	(845) 334-3967	10/4/2013	Yes
Building Code Official	David Allen	<a href="mailto:dallen@kingston-ny.gov">dallen@kingston-ny.gov</a>	(845) 331-1227	10/4/2013	Yes
Fiscal/Budget Officer	John Tuey	<a href="mailto:jtuey@kingston-ny.gov">jtuey@kingston-ny.gov</a>	(845) 334-3941	10/4/2013	Yes
Manager/Administrator	Shayne Gallo	<a href="mailto:mavorgallo@kingston-ny.gov">mavorgallo@kingston-ny.gov</a>	(845) 334-3901	10/4/2013	Yes
Elected Officials	James Noble	<a href="mailto:inoble39@aol.com">inoble39@aol.com</a>	(845) 331-4696	10/4/2013	Yes
Other 1: Police Chief	Egidio Tinti	<a href="mailto:etinti@kingston-ny.gov">etinti@kingston-ny.gov</a>	(845) 943-5766	10/4/2013	Yes
Other 2: Deputy Fire Chief	Thomas Gleason	<a href="mailto:tgleason@kingston-ny.gov">tgleason@kingston-ny.gov</a>	(845) 331-1507	10/3/2013	Yes
Other 3:					



Name: David C. Allen Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator  
Representing: City of Kingston Email and Phone: dallene.kingston@ny.gov

**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	5-1-85	Position or Title of Your Jurisdiction's Designated Floodplain Manager/Administrator (may also be called NFIP Coordinator)	Deputy Firechief David C. Allen	Is this person a Certified Floodplain Manager?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Is floodplain management an auxiliary function?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Is your community in good standing with the NFIP?	<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.):									
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?	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Does the current floodplain management ordinance exceed FEMA or State minimum requirements? If so, describe how.	<input type="checkbox"/> Yes <input type="checkbox"/> No	Is training of staff regarding NFIP issues planned?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to enforce the floodplain management requirements including regulating new construction in Special Flood Hazard Areas (SFHAs)?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
								Does your community intend to continue its participation in the CRS program?	<input type="checkbox"/> Yes <input type="checkbox"/> No
								Does your community participate in the CRS? If so, state your Class.	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No * Class
								If your community is not currently participating in the CRS program, are you intending to initiate the process during the next planning cycle?	<input type="checkbox"/> Yes <input type="checkbox"/> No
*Describe any outstanding compliance issues (i.e., current violations):									

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



Name: David C. Allen

Title: Floodplain Manager/Floodplain Administrator/NFIP Coordinator

Representing: City of Kingston NY

Email and Phone: dallene.kingston-ny.gov 351-1211



Provide an explanation of your local floodplain permitting process:

Does your community intend to continue floodplain identification and mapping services including any local requests for map updates?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to initiate/continue the buyouts of repetitive loss properties?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to commit staff or resources to improve local mapping or code administration in the future?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to provide local outreach to promote the sale of flood insurance?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to participate in RiskMAP meetings and planning initiatives?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement structural improvements to mitigate against flooding - culverts, drainage basins, etc.?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement home improvement programs designed to minimize basement flooding?	<input type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to continue to implement roadway improvements to reduce damage from future flooding events?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Does your community intend to implement plans and programs in coordination with a local or regional drainage/sewer authority?	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
Does your community intend to adopt the new FEMA Advisory Base Flood Elevations?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		As Floodplain Manager, did you (or your predecessor at the time) actively participate in the development of the initial Hazard Mitigation Plan?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		As Floodplain Manager, are you actively participating in the development of this Hazard Mitigation Plan Update?		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Have there been any changes to your community's local floodplain management program since the last version of the plan in 2009?					
<input checked="" type="checkbox"/> Yes <input 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 type="checkbox"/> No					

\* 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:

*Building Safety Division Issues Floodplain Development Permits and monitors activity. A final Elevation Certificate is obtained at the end of the process.*

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?

☒ Yes ☐ No

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?

☒ Yes ☐ No

Note: NFIP policy statistics by community are maintained at: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NJIT>  
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

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: MARK BROWN

Title: FIRE CHIEF

Representing: CITY OF KINGSTON

Email and Phone: mbrown@kingston-ny.gov



## Ulster County Multi-Jurisdictional Hazard Mitigation Plan Update

### Worksheet #4

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.*
- \_\_\_\_\_
- \_\_\_\_\_

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: Mark Brown

Title: Fire Chief

Representing: City of Kingston

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## 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	✓	✓	✓	✓		✓	✓	✓	✓	✓	✓			X
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														
Woodstock, Town of														

# Administrative and Technical Capacity

Table 4-2 Administrative and Technical Capacity 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
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														



# Administrative and Technical Capacity

Table 4-2 Administrative and Technical Capacity 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
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														

## Fiscal Capability

**Table 4-3  
Fiscal Capability Inventory**

Jurisdiction	Community Development Block Grants (CDBG)	Capital Improvements Project Funding	Authority to Levy Taxes for Specific Purposes	Fees for Water, Sewer, Gas, or Electric Service	Impact Fees for Homebuyers or Developers for New Developments/Homes	Incur Debt through General Obligation Funds	Incur Debt through Special Tax and Revenue Bonds	Incur Debt through Private Activity Bonds	Withhold Spending in Hazard-Prone Areas	Other (i.e., coastal, sustainability, or climate change initiatives; or Brownfield funds)
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										
Woodstock, Town of										



Would you classify your community's <u>legal and regulatory</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's overall <u>technical</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's overall <u>fiscal</u> capability to implement hazard mitigation strategies as high, moderate, or low?	Would you classify your community's overall <u>administrative</u> capability to implement hazard mitigation strategies as high, moderate, or low?	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)?
Moderate	High	Low	High	High
<p><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></p> <p>We need to better educate all parties involve in Hazard Mitigation. I believe that with better understanding of the we would be better prepare. Sometimes I feel that the only time we discuss this is when it happens this needs to stop. BI monthly meets with city leaders is a start, the Common Council should also be involved in this process. Reviewing what other community's have done and using proven plans.</p>				

WORKSHEET 5

Jurisdiction	Mitigation Action	Previous Priority	Hazard(s) Addressed	Responsible Party/Parties to Implement	Status - Check One			Relevance - Check One		Relevance Details
					Completed	Initiated but Not Completed	Ongoing Type of Activity	Not Initiated	Still Relevant - Carry Forward to Updated Mitigation Strategy	
Provide a General Overview of How Local Priorities May Have Changed Since the Last Version of the Plan. With drainage improvements on Lindenman Av and Stream Stabilization at the Twaffskill Creek completed our focus is now on street and business district flooding at three locations within the City. These projects include culvert pipe replacements.										
Kingston, City of	Drainage improvements on 3 sections of Lindenman Ave (Tannery brook). Replace culvert, stabilize stream bank and work with Twin Ponds development to address issues and mitigate flooding downstream from the development.	High	Flooding, Road erosion	Public Works	X				X	Currently under construction, no completion date known at this time
Kingston, City of	Replace existing stormwater pipe and culvert along the Jacobs Valley storm sewer line near Willowick Cemetery. Alleviate flooding at the Broadway underpass, Susan Street area, that occurs during any significant rainfall	High	Flooding, eliminate street closure, improve evacuation route and emergency response	City Engineer, Public Works	X				X	Currently in design phase of project.
Kingston, City of	Drainage and Storm Sewer improvements in the Hurley Ave, Fairview Ave, Millers Lane area to alleviate street and home flooding	High	Flooding	City Engineer	X				X	Currently attempting to get easements with property owners in the area. Once that is completed a plan will be designed.
Kingston, City of	Replace four sections of culvert Main St., Mt. View, Quaker Ave area to Esopus Creek to eliminate flooding of homes and business district	High	Flooding	City Engineer, Public Works	X				X	At this time the Washington Ave. sink hole has priority. When that project is completed this will be revisited.
Kingston, City of	Stream stabilization at Twaffskill Creek adjacent to Wilbur Ave/ Chapel St. to prevent recurrence of erosion that causes road to slide into creek and threatens water and sewer lines	High	Erosion, Road Collapse	City Engineer	X					Work on this project is complete.
									X	project is completed





## Ulster County Multi-Jurisdictional Hazard Mitigation Plan Update

### Worksheet #6

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: Mark Brown

Title: Fire Chief

Representing: City of Kingston

Email and Phone: mbrown@kingston-ny.gov (845)331-1959

Community Name City of Kingston

### 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?	X
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.	X
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.	X



Community Name \_\_\_\_\_

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).	X
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.	X
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).	X
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.	



Community Name \_\_\_\_\_

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.	

Community Name \_\_\_\_\_

## 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.	X
2. A. Incorporate hazard mitigation for natural hazards in the next update of your master, general or comprehensive plan.	X
B. Add a specific hazard mitigation element to the next update of your master, general or comprehensive plan.	
3. Adopt and enforce the minimum building standards established in the current State-adopted IBC	
4. A. Maintain community participation in FEMA's National Flood Insurance Program.	X
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.	
6. Modify work plans, policies or procedures to include hazard mitigation concepts/activities.	X
7. Revise job descriptions to include mitigation-related duties to further institutionalize mitigation.	X
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.	X
10. Require the Department of Public Works to inspect and clean debris from streams and ditches more frequently.	X
11. Add hazard vulnerability to subdivision and site plan review criteria.	
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.	
13. Reach out to state agencies for assistance with natural hazard mitigation activities.	X
14. Reach out to colleges and universities for technical assistance with natural hazard mitigation activities.	X
15. Adopt (or continue to enforce) a local stormwater management plan/ordinance.	X
16. Protect life and property in high hazard areas by limiting densities of new development.	
17. Increase resilience by limiting the extension of public infrastructure in high hazard areas.	
18. Reduce the vulnerability of future development in high hazard areas by reviewing development regulations, and modifying where needed.	
19. Use the risk assessment to inform future updates of the community emergency operations plan, evacuation plan, and/or post disaster recovery plan.	X
20. Implement hazard mitigation activities through existing plans and policies.	X
21. Sponsor training on best practices for hazard mitigation for local government staff. (Note: this may be accomplished with other local governments.)	X



# City of Kingston Hazard Mitigation Actions





<b>Action Worksheet : FloodProof Structures</b>	
Your plan name	<i>Ulster County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Kingston</i>
Community action number	<i>City of Kingston Action 1</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood</i>
Risk finding	<i>Rondout Creek waterfront area has been inundated at least 3 times in the past 5 years, leading to multiple business and public safety threats</i>
<b>Describing the Action</b>	
Action category	<i>Structure/Infrastructure Project</i>
Action type	<i>Floodproofing</i>
Action description	<i>Floodproof seven businesses and three not-for-profit/government buildings, and potentially others as yet to be determined</i>
Existing, future &/or NA	<i>Addresses existing structures</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>The city's cost of repairing the infrastructure that serves these buildings will be reduced, and will increase public safety in this area. Money saved in long term to proactively address known problems; benefits are unquantifiable, but anticipated to be in excess of project costs, for a cost-effective project</i>
Cost estimate	<i>\$20,000 x 10 : \$200,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Increased floodproofing will reduce longterm maintenance costs, reduce insurance claims and allow for additional savings in flood insurance premiums</i>
Technical	<i>Able to be done. Long term, community must adapt to long term, rising sea levels in the area with increased heavy rainfall</i>
Political	<i>City recently adopted Sea Level Rise Taskforce's recommendations. Support is there for work in these areas</i>
Legal	<i>No foreseen legal issues</i>
Environmental	<i>No adverse environmental effects are projected because this area is already in a built out area while also part of larger Brownfield planning project</i>
Social	<i>This area is identified by the NYS DEC as a potential environmental justice area. This floodproofing will assist the community in meeting the needs of the residents</i>
Administrative capability	<i>Support will be needed for the engineering department to manage this type of program</i>
Local champion	<i>Business community and local leaders/mayor will champion this project</i>
Other community objectives	<i>Supports newly written Comprehensive Plan and Waterfront redevelopment plans</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Comprehensive Plan</i>
Responsible party	<i>City of Kingston Engineering/Public Works</i>
Potential funding sources	<i>Private Businesses, CHIPS Funding, Hazard Mitigation and FEMA funding</i>
Time line	<i>Two years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>new action proposed</i>

<b>Action Worksheet : Main St. Culvert Replacement</b>	
<b>Your plan name</b>	<i>Ulster County Multi-jurisdictional Hazard Mitigation Plan</i>
<b>Your community name</b>	<i>City of Kingston</i>
<b>Community action number</b>	<i>City of Kingston Action 2</i>
<b>Assessing the Risk</b>	
<b>Hazard(s) addressed</b>	<i>Flood</i>
<b>Risk finding</b>	<i>Undersized and failing culverts leading to home and neighborhood flooding during intense heavy rain</i>
<b>Describing the Action</b>	
<b>Action category</b>	<i>Structure/Infrastructure Project</i>
<b>Action type</b>	<i>Culvert Replacement</i>
<b>Action description</b>	<i>Replace four section of culvert on Main Street, Mt. View, and Lucas Avenue Area, and potentially additional locations as yet to be determined.</i>
<b>Existing, future &amp;/or NA</b>	<i>Addresses existing structures</i>
<b>Evaluating the Action</b>	
<b>Losses avoided (i.e., benefits)</b>	<i>Reduced flooding in homes as well as public infrastrucutre in the area of the failing culverts. Money saved in long term to proactively address known problems; benefits are</i>
<b>Cost estimate</b>	<i>\$250,000</i>
<b>Cost effectiveness (i.e., benefit/cost)</b>	<i>Increased culvert size will reduce longterm maintenance costs, reduce insurance claims and allow for additional savings in flood insurance premiums</i>
<b>Technical</b>	<i>Able to be done. Long term, community must adapt to long term, increased heavy rainfall</i>
<b>Political</b>	<i>Support is there for work in these areas.</i>
<b>Legal</b>	<i>No forseen legal issues</i>
<b>Environmental</b>	<i>No adverse environmental effects are projected because this area is already in a built out areas howevre all MS4 regulations will be followed during the project</i>
<b>Social</b>	<i>This project will help assist those families who are flooded regularly because equipment needs to be upgraded to handle the increased rainfall</i>
<b>Administrative capability</b>	<i>Support will be needed for the enginnering department to manage this type of program</i>
<b>Local champion</b>	<i>Business community and local leaders/mayor will champion this project</i>
<b>Other community objectives</b>	<i>Supports newly written Comprehnsive Plan and Climate Action Plan</i>
<b>Implementing the Action</b>	
<b>Priority</b>	<i>High</i>
<b>Local planning mechanism</b>	<i>Comprehensive Plan</i>
<b>Responsible party</b>	<i>City of Kingston Engineering/Public Works</i>
<b>Potential funding sources</b>	<i>Private Businesses, CHIPS Funding, Hazard Mitigation and FEMA funding</i>
<b>Time line</b>	<i>Two years</i>
<b>Reporting on Progress</b>	
<b>Action progress status</b>	<i>Carried forward from 2010 plan/under design</i>

<b>Action Worksheet : Esopus Creek Levee Project</b>	
Your plan name	<i>Ulster County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Kingston</i>
Community action number	<i>City of Kingston Action 3</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood</i>
Risk finding	<i>Army Corps of Engineers recently de-certified Esopus Creek Levee at Kingston Plaza, leading to the necessity for insuring a \$42 million dollar retail plaza</i>
<b>Describing the Action</b>	
Action category	<i>Structure/Infrastructure Project</i>
Action type	<i>Levee re-certification and improvement project</i>
Action description	<i>Study and refurbish Esopus Creek Levee to meet new Army Corps Standards for Levees.</i>
Existing, future &/or NA	<i>Addresses existing structures</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Substantial cost savings on Flood Insurance as property will be protected by a certified Levee.</i>
Cost estimate	<i>\$175,000 for Study/Designs, ~\$2,000,000 to improve levee to need Army Corps of Engineer standards</i>
Cost effectiveness (i.e., benefit/cost)	<i>Improvement to levee will dramatically reduce flood risk to Kingston Plaza retail area. This will dramatically reduce insurance premiums as well as actual damages in case of a flood</i>
Technical	<i>Able to be done. Long term, community must adapt to long term, increased heavy rainfall</i>
Political	<i>Support is there for work in these areas. Property owner willing to work with city to make sure this project is successful.</i>
Legal	<i>No foreseen legal issues</i>
Environmental	<i>Any environmental impacts from the alteration of the levee will be studied and mitigation measures will be taken to reduce any impacts on nearby stream habitat</i>
Social	<i>This plaza is one of the major commerce areas in the City of Kingston and plays an important role in our community.</i>
Administrative capability	<i>Support will be needed for the engineering department to manage this type of program</i>
Local champion	<i>Business community and local leaders/mayor will champion this project</i>
Other community objectives	<i>Supports the community's economic development agenda to assist and preserve local jobs and economic vitality in our community</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Comprehensive Plan</i>
Responsible party	<i>City of Kingston Engineering/Public Works, Private Contractors, Army Corps of Eng./DEC</i>
Potential funding sources	<i>Private Businesses, Hazard Mitigation and FEMA funding</i>
Time line	<i>Two years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>new action proposed</i>



<b>Action Worksheet : Rail Incident Mitigation Project</b>	
Your plan name	<i>Ulster County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Kingston</i>
Community action number	<i>City of Kingston Action 4</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Fire/Chemical Incident</i>
Risk finding	<i>There has been an increase in oil transport via rail in recent years. This has necessitated the need to prepare for a rail accident in the City of Kingston.</i>
<b>Describing the Action</b>	
Action category	<i>Equipment Purchase</i>
Action type	<i>Purchase of two foaming trailers for oil/chemical fires</i>
Action description	<i>Purchase two foaming trailers to have spread out in the City of Kingston. Current the Fire Department has one trailer, however, with six crossings, this necessitates having equipment staged in various areas</i>
Existing, future &/or NA	<i>Addresses existing structures and future increase in oil transport through Kingston</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Additional fire protection equipment will avoid catastrophic incidents and allow Kingston to mitigate the potential for loss of life and property</i>
Cost estimate	<i>Two trailers would be needed at a cost of \$75,000 each. With storage, the total of this project would be \$175,000.</i>
Cost effectiveness (i.e., benefit/cost)	<i>The cost of these units does not compare with the cost to rebuild the affected properties along the rail line that cuts Kingston in two.</i>
Technical	<i>These units are available and the city has staff trained on how to use them</i>
Political	<i>There is a community consensus that this risk is high and needs to be addressed and prepared for</i>
Legal	<i>No foreseen legal issues</i>
Environmental	<i>No issues at this time</i>
Social	<i>A rail incident in our community will impact numerous public buildings, schools and our transportation and business corridor</i>
Administrative capability	<i>Support will be needed for the fire department to manage this type of program</i>
Local champion	<i>The fire department will champion this project</i>
Other community objectives	<i>This will make sure the community is ready in the event of an emergency</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Comprehensive Plan</i>
Responsible party	<i>CSX, Kingston Fire Department</i>
Potential funding sources	<i>CSX, Kingston Fire Department</i>
Time line	<i>One year</i>
<b>Reporting on Progress</b>	
Action progress status	<i>new action proposed</i>

Action Worksheet: Jacobs Valley	
Your plan name	<i>Ulster County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Kingston</i>
Community action number	<i>City of Kingston Action 5</i>
Assessing the Risk	
Hazard(s) addressed	<i>Flood</i>
Risk finding	<i>The Jacobs Valley Storm Drain drains the watershed immediately to the east of the Broadway Underpass at Greenkill Ave. Bridge. The existing system has failed and is in need of replacement. During rain events, stormwater runoff bypasses stormwater inlets to the Jacobs Valley Storm Drain due to its surcharge, and is directed to the Greenkill Ave. Storm Drain that drains the Broadway Underpass at the Greenkill Ave. Bridge. The Broadway Underpass acts as a detention pond, precluding vehicular traffic, during heavy rainfalls until the existing system in Greenkill Ave. can "catch-up". Replacement of the Jacobs valley Storm Drain is under design.</i>
Describing the Action	
Action category	<i>Structure / Infrastructure Project</i>
Action type	<i>Replacement of the existing stormwater drainage system is required, see Risk Finding.</i>
Action description	<i>Replace existing deteriorated concrete and clay tile drainage piping with new HDPE pipe.</i>
Existing, future &/or NA	<i>Upon completion of the Project existing and future assets will be protected.</i>
Evaluating the Action	
Losses avoided (i.e., benefits)	<i>Annual expenses for road repairs due to submergence at Broadway Underpass are approximately \$10,000 annually.</i>
Cost estimate	<i>\$1,600,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>When completed road will remain passable at all times.</i>
Technical	<i>Able to be done. Long term, community must adjust to climate change, rising sea level and increased heavy rainfall</i>
Political	<i>Business, Emergency responders and community will support this project.</i>
Legal	<i>No foreseen issues</i>
Environmental	<i>No foreseen issues</i>
Social	<i>This project will be an asset to the community solving a long term problem</i>
Administrative capability	<i>Support will be needed from engineering / public works</i>
Local champion	<i>Business, Emergency responders and community will support this project.</i>
Other community objectives	<i>Supports Comprehensive Plan</i>
Implementing the Action	
Priority	<i>High</i>
Local planning mechanism	<i>Comprehensive Plan</i>
Responsible party	<i>City of Kingston Engineering / Public Works</i>
Potential funding sources	<i>Bonding Jacobs</i>
Time line	<i>2 Years</i>
Reporting on Progress	
Action progress status	<i>Carried forward from 2010 Plan; Under Design</i>

<b>Action Worksheet: Hurley Ave, Fairview, Millers Lane</b>	
Your plan name	<i>Ulster County Multi-jurisdictional Hazard Mitigation Plan</i>
Your community name	<i>City of Kingston</i>
Community action number	<i>City of Kingston Action 6</i>
<b>Assessing the Risk</b>	
Hazard(s) addressed	<i>Flood</i>
Risk finding	<i>Hurley Ave., Fairview Ave. and Millers Lane suffer from localized flooding as a result of undersized storm drains and inadequate outfalls. Existing systems need to be enlarged to provide additional capacity.</i>
<b>Describing the Action</b>	
Action category	<i>Structure / Infrastructure Project</i>
Action type	<i>Floodproofing</i>
Action description	<i>Hurley Ave. requires an enlarged outfall pipe to carry existing stormwater runoff. Fairview Ave. and Millers Lane require enlarged collection and transmission pipe to eliminate localized flooding.</i>
Existing, future &/or NA	<i>Addressing existing infrastructure</i>
<b>Evaluating the Action</b>	
Losses avoided (i.e., benefits)	<i>Annual expenditures to address localized flooding and winter icing as a result of the inadequate drainage is approximately \$10,000 annually.</i>
Cost estimate	<i>\$500,000</i>
Cost effectiveness (i.e., benefit/cost)	<i>Reduce longterm maintenance costs, reduce insurance claims and allow for additional savings in flood insurance premiums</i>
Technical	<i>Able to be done by Public Works</i>
Political	<i>Support is high for this work</i>
Legal	<i>Project has some easement issues</i>
Environmental	<i>No adverse environmental effects</i>
Social	<i>This project will assist families who are flooded regularly</i>
Administrative capability	<i>Support will be needed from engineering</i>
Local champion	<i>Local Leaders / Homeowners</i>
Other community objectives	<i>Supports Comprehensive Plan and Climate Action Plan</i>
<b>Implementing the Action</b>	
Priority	<i>High</i>
Local planning mechanism	<i>Comprehensive Plan</i>
Responsible party	<i>City of Kingston Engineering / Public Works</i>
Potential funding sources	<i>Bond</i>
Time line	<i>2 Years</i>
<b>Reporting on Progress</b>	
Action progress status	<i>Waiting easement</i>





## Ulster County Multi-Jurisdictional Hazard Mitigation Plan Update

### OUTREACH LOG:

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

**PARTICIPATING JURISDICTION:** \_\_\_\_ City of Kingston

DATE OF ACTIVITY	TYPE OF ACTIVITY	ACTIVITY DETAILS	LEAD DEPARTMENT AND/OR STAFF TITLE WHO UNDERTOOK ACTIVITY
2014-2015	Department Head Meetings	Bi-Weekly Department head meetings were held at Kingston City Hall. These meetings allowed key city staff to discuss hazards and potential mitigation opportunities	These topics were discussed by City Engineer and City Fire Chief, along with Mayor and various other city officials
Jan 14 Feb 11 March 11 April 15 May 13 June 10 July 15 Aug 20 Sep 9 Oct 14 Nov 18 Dec 9	Public Finance Committee Meetings	Monthly meetings were attended by City Engineer who updated the public and common council members to capital projects, many of which included flood and other hazard related issues that fed into this report	City Engineer to the lead in this public communication
Ongoing	Constituent Communications	Kingston Common Council Members routinely keep their constituents informed and also work on policy and hazard type issues including oil transport by rail and other such initiatives.	Kingston Common Council Members
Jan 21 Feb 18 Mar 18 Apr 15 May 20 June 17 July 15 Aug 19 Sept 16 Oct 21 Nov 18 Dec 16	Public Safety Committee Meeting	Monthly meetings were attended by Fire Chief who updated public and common council members to capital projects, many that included flood related issues.	Kingston Common Council Members

3/11/16	Public Posting	Notices placed in all City of Kingston buildings	Fire Chief M. Brown
3/11/16	Web Posting	Hazard Mitigation Plan Posted on City Website	Fire Chief M. Brown
3/11/16	Press Release	Daily Freeman giving press release of the City of Kingston involvement in Plan	Joint release Mayor and Fire Chief
Open	Training	Information will be addressed at all public Training provided by the Fire Department. (CPR, Car Seat Safety) Done in the form of H.M.P. handouts	Fire Department Personnel
2/24/16	Public Meeting	American Red Cross	Alderman Brad Will

***Please add additional pages as needed and return via email to Anna Foley at: [anna.foley@urs.com](mailto:anna.foley@urs.com).  
For questions, please call 973-883-8500.***