

9.23 VILLAGE OF UPPER NYACK

This section presents the jurisdictional annex for the Village of Upper Nyack.

9.23.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan’s primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
Carol G. Brotherhood: Village Clerk Email: village.clerk@uppernyack-ny.us Phone: 845-358-0084	Karen Tatapata: Mayor Email: mayor.tarapata@uppernyack-nu.ud Phone: 845-358-0084
NFIP Floodplain Administrator (FPA)	
Dennis Letson, PE, Consulting Engineer 845-558-6838 Dletson241@aol.com	

9.23.2 Municipal Profile

The Village of Upper Nyack is located within the Town of Clarkstown, along the eastern border of Rockland County. The Village is bordered to the north and west by the Town of Clarkson, to the south by the Village of Nyack, and to the east by the Hudson River. The Hudson River is a major body of water found within the Village.

The Village has a total area of 4.2 square miles, of which, 1.3 square miles is land and 2.9 square miles is water. According to the 2010 Census, the community’s population was 2,063. The Village is governed by the Village Board, consisting of the Mayor and four Trustees.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2010 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the map in 9.23.8 of this annex which illustrates the hazard areas along with the location of potential new development.

Table 9.23-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zone(s)	Description/Status of Development
Recent Development from 2010 to present					
Courtyard at Upper Nyack Subdivision	Residential	14	Riverton Drive	WUI: Interface	95% Complete
Roseland Subdivision	Residential	6	Roseland Road	WUI: Interface	Complete
Known or Anticipated Development in the Next Five (5) Years					
None identified.					

** Only location-specific hazard zones or vulnerabilities identified.*

9.23.3 Natural Hazard Event History Specific to the Municipality

Rockland County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology

of events that have affected the County and its municipalities. For the purpose of this plan update, events that have occurred in the County from 2008 to present were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.23-2. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	Rockland County Designated?	Did your community suffer losses/costs from this event? (Yes/No - If "yes" please complete an Event Loss Summary Sheet for this event.)	Notes on damages within County
August 10, 2009	Thunderstorms	N/A		\$25,000 in damages throughout County
January 25, 2010	High Wind	N/A		\$100,000 in damages throughout County
March 13-31, 2010	Severe Storms and Flooding DR-1899	Yes	None Recorded	
July 19, 2010	Thunderstorms, Lightning, Wind	N/A		\$36,000 in damages throughout County
December 26-27, 2010	Severe Winter Storm and Snowstorm DR-1957	Yes	Yes – Emergency snow removal to maintain roads - \$22,383	Road Closures, Reg & OT time,
August 25 – September 5, 2011	Hurricane Irene DR-4020	Yes	Yes – Roadway embankment repair: \$59,950; 2 Residential properties damage: \$20,000; Debris removal, force account and contract: \$53,257.63	
October 27 – November 8, 2012	Hurricane Sandy DR-4085	Yes	Yes – Protective measures: \$16,082; Debris removal: \$51,357	
February 16, 2016	Strong Winds	N/A	None Recorded	\$50,000 in damages throughout County

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable

9.23.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the Village of Upper Nyack. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

Natural Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Village of Upper Nyack.

Table 9.23-3. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Drought	Damage estimate not available	Frequent	39	High
Earthquake	100-Year GBS: \$0 500-Year GBS: \$86,877 2,500-Year GBS: \$1,880,308	Occasional	24	Medium
Extreme Temperature	Damage estimate not available	Frequent	30	Medium
Flood	1% Annual Chance: \$0	Frequent	36	High
Landslide	RCV Exposed: \$0	Rare*	6	Low
Severe Storm	100-Year MRP: \$149,183 500-year MRP: \$2,100,601 Annualized: \$11,973	Frequent	48	High
Winter Storm	1% GBS: \$2,670,940 5% GBS: \$13,354,700	Frequent	51	High
Wildfire	Estimated Value in the WUI: \$277,005,000	Frequent	54	High

Notes:

- a. Building damage ratio estimates based on FEMA 386-2 (August 2001)
 - b. The valuation of general building stock and loss estimates was based on custom inventory for the municipality.
High = Total hazard priority risk ranking score of 31 and above
Medium = Total hazard priority risk ranking of 20-30+
Low = Total hazard risk ranking below 20
 - c. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the value of contents.
 - d. Loss estimates for the flood and earthquake hazards represent both structure and contents.
 - e. The HAZUS-MH earthquake model results are reported by Census Tract.
- *The Village engineer acknowledged the steep slopes in the Village, but previous issues are only one due to an improperly constructed retaining wall. The Village has requested to keep the risk rank probability as 'rare'.

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Upper Nyack.

Table 9.23-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Boundary (3)
Village of Upper Nyack	24	7	\$227,317	0	1	0

Source: FEMA Region 2, 2016

(1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA Region 2, and are current as of 06/30/2016. The total number of repetitive loss properties does not include the severe repetitive loss properties. The number of claims represents claims closed by 06/30/16.

(2) Total building and content losses from the claims file provided by FEMA Region 2.

(3) The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file.



Notes: FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility. A zero percentage denotes less than 1/100th percentage and not zero damages or vulnerability as may be the case. Number of policies and claims and claims total exclude properties located outside county boundary, based on provided latitude and longitude.

Critical Facilities

The table below presents the critical facilities identified in the HMP that are located in the FEMA-delineated 1- and/or 0.2-percent annual chance floodplain. The table also summarizes the Hazards United States (HAZUS) – Multi-Hazards (MH) damage estimates (if any) to each critical facility as a result of the 1-percent annual chance flood event.

Table 9.23-5. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Potential Loss from 1% Flood Event	
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage
None identified.					

Source: Hazus-MH 3.2, Rockland County

Other Vulnerabilities Identified

The municipality has identified the following vulnerabilities within their community:

- Flood vulnerability along the Hudson River affecting waterfront residential structures and a commercial facility.
- Flood vulnerability at the intersection of Broadway and Lexow Ave resulting in flooding of roadway and several structures along Lexow Ave and east of Broadway.
- Flood vulnerability along the Old Mountain Road Stream resulting in flooding of critical intersection and streambank overtopping affecting properties and structures along the stream.
- Steep slopes vulnerability along the north and west areas of the Village, some in proximity to existing residential and commercial structures.
- Windstorm vulnerability throughout the Village from over-mature large trees resulting in damage to structures or overhead utility facilities.

9.23.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- National Flood Insurance Program
- Integration of mitigation planning into existing and future planning mechanisms

Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Village of Upper Nyack.

Table 9.23-6. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan	Yes	Local	Village, Planning & zoning Boards	
Capital Improvements Plan	Yes	Local	Village Bd.	
Floodplain Management / Basin Plan	No			
Stormwater Management Plan	Yes	Local	DPW, Village Engineer	
Open Space Plan	No			
Stream Corridor Management Plan	No			
Watershed Management or Protection Plan	No			
Economic Development Plan	No			
Comprehensive Emergency Management Plan	No			
Emergency Operation Plan	No			
Post-Disaster Recovery Plan	No			
Transportation Plan	No			
Strategic Recovery Planning Report	No			
Other Plans:	No			
Regulatory Capability				
Building Code	Yes	State & Local	Building Inspector	
Zoning Ordinance	Yes	Local	Planning & Zoning Boards	
Subdivision Ordinance	Yes	Local	Planning Board	
NFIP Flood Damage Prevention Ordinance	Yes	Federal, State, Local	Village Engineer	
NFIP: Cumulative Substantial Damages	No			
NFIP: Freeboard	Yes	State, Local	Village engineer, Building Inspector	State mandated BFE+2 for single and two-family residential construction, BFE+1 for all other construction types
Growth Management Ordinances	No			
Site Plan Review Requirements	Yes	Local	Planning Board	
Stormwater Management Ordinance	Yes	Local	Village Engineer,	

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
			Planning Board	
Municipal Separate Storm Sewer System (MS4)	Yes	Local	Village Engineer	
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	Yes	State		NYS mandate, Property Condition Disclosure Act, NY Code - Article 14 §460-467
Other (Special Purpose Ordinances [i.e., sensitive areas, steep slope])				

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Upper Nyack.

Table 9.23-7. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Independent Board
Mitigation Planning Committee	No	
Environmental Board/Commission	No	
Open Space Board/Committee	No	
Economic Development Commission/Committee	No	
Maintenance programs to reduce risk	No	
Mutual aid agreements	No	
Technical/Staffing Capability		
Planner(s) or engineer(s) with knowledge of land development and land management practices	No	
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	Village Engineer
Planners or engineers with an understanding of natural hazards	Yes	Village Engineer
NFIP Floodplain Administrator (FPA)	Yes*	Village Engineer
Surveyor(s)	No	
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	Village Engineer
Scientist familiar with natural hazards	No	
Emergency Manager	No	
Grant writer(s)	No	

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Staff with expertise or training in benefit/cost analysis	Yes	Village Engineer
Professionals trained in conducting damage assessments	Yes	Village Engineer

Fiscal Capability

The table below summarizes financial resources available to the Village of Upper Nyack.

Table 9.23-8. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	Yes, Village Board
Capital improvements project funding	Yes, Village Board
Authority to levy taxes for specific purposes	Yes, Village Board
User fees for water, sewer, gas or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes, Village Board
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	Yes
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other	

Community Classifications

The table below summarizes classifications for community program available to the Village of Upper Nyack.

Table 9.23-9. Community Classifications

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No		
Building Code Effectiveness Grading Schedule (BCEGS)	No		
Public Protection (ISO Fire Protection Classes 1 to 10)	No		
NYSDEC Climate Smart Community	No		
Storm Ready Certification	No		
Firewise Communities classification	No		
Natural disaster/safety programs in/for schools	No		
Organizations with mitigation focus (advocacy group, non-government)	No		

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Public education program/outreach (through website, social media)	No		
Public-private partnership initiatives addressing disaster-related issues	No		

Note:

- N/A Not applicable
- NP Not participating
- Unavailable

The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO’s Public Protection website at <https://www.isomitigation.com/ppc/>
- The National Weather Service Storm Ready website at <http://www.stormready.noaa.gov/index.html>
- The National Firewise Communities website at <http://firewise.org/>

Self-Assessment of Capability

The table below provides an approximate measure of the Village of Upper Nyack’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.23-10. Self-Assessment Capability for the Municipality

Area	Degree of Hazard Mitigation Capability		
	Limited (If limited, what are your obstacles?)*	Moderate	High
Planning and regulatory capability			X
Administrative and technical capability		X	
Fiscal capability		X	
Community political capability			X
Community resiliency capability		X	
Capability to integrate mitigation into municipal processes and activities		X	

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

Dennis M. Letson, P.E. – Village Engineer

Flood Vulnerability Summary

Currently the Village does not maintain a list or inventory of properties that have been flood damaged. Through storms including Floyd, Irene, and Sandy, only two residential structures have reported damage; these damages total \$20,000. The Village does not make Substantial Damage estimates, but has the capability to do so if needed. To date, no property owners have expressed interest in acquisitions or elevations.

Resources

The FPA is the sole person assuming the responsibilities of floodplain administration for the Village. The NFIP administration services and functions provided by the FPA include permit review and inspections. The Village does not provide education or outreach to the community regarding flood hazards/risk and flood risk reduction through NFIP insurance or mitigation due to the limited floodplain in the Village. The FPA indicated he has been adequately supported and trained to fulfill the responsibilities of floodplain administration, but would attend continuing education and/or certification training on floodplain management if it were offered in the County.

Compliance History

The Community is in good-standing in the NFIP, but it is unknown when the latest Community Assistance Visit was conducted.

Regulatory

The Village's floodplain management regulations and ordinances meet the FEMA and State minimum standards. Board review for site plans or variances take into account floodplain management. The Village is not apart of the Community Rating System program, and are not interested in joining the program; limited floodplain in the Village along the Hudson River.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, each community was surveyed to obtain a better understanding of their community's progress in plan integration. A summary is provided below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

Planning

Land Use Planning: As discussed in the Comprehensive Plan (1999), land use planning places a large focus on maintaining and preserving open space. Aside from the aesthetic value of many physical features of the Village, they play a major role in the environmental quality of the Village as well. Maintaining and preserving open spaces, specifically stream corridors, will provide a multitude of benefits for flood reduction and associated problems. Protecting stream corridors from development will prevent overloading or restricting their capacity as drainage ways, erosion and flooding, and channelization. To limit development in areas with environmental limitations, land use development is also driven by environmental specific ordinances. The Village requires that no area of land under water or no more than ¼ of any land which is defined as wetlands or within the 100-year floodplain will be counted toward the minimum lot area for determining the allowable building footprint square footage for the lot. To protect against steep slopes, no more than 50% of the land area of that portion of each lot with an average gradient of twenty percent or more, extending over any horizontal length of at least 50 feet, and

extending over a horizontal width of at least 50 feet will not be counted towards the minimum lot area. In addition, no construction will be allowed on a portion of the lot with slopes in excess of 40%, and any area of land with a slope in excess of 50% will not be counted towards the minimum lot area of a parcel.

Rockland County Stormwater Consortium: The Village is a member of the Rockland County Stormwater Consortium, which works with other municipalities and the county to keep waterways clear of pollutants. The Stormwater Consortium consists of those municipal separate stormwater system (MS4) municipalities within Rockland County who have joined together with Cornell Cooperative Extension for the purpose of implementing the federal and state requirements for stormwater management. MS4 municipalities are responsible for meeting the Phase II stormwater management requirements of the National Pollutant Discharge Elimination System (SPDES) regulations.

Regulatory and Enforcement (Ordinances)

Flood Damage Prevention: This ordinance promotes the public health, safety, and general welfare of residents and seeks to minimize expenditure of public money for costly flood control projects, and to minimize the need for rescue and relief efforts associated with flooding, generally undertaken at the expense of the general public. It regulates development to promote flood resistant structures and controls the alteration of floodplains to prevent increased vulnerability.

Stormwater Management: Chapter 33 of the Village Code deals with ‘Stormwater Management.’ This ordinance aims to establish minimum stormwater management requirements and controls to protect and safeguard the general health, safety, and welfare of the Village residents. The ordinance establishes requirements in accordance with NYSDEC SPDES permitting, as well as additional requirements for reducing stormwater runoff from land developments. The ordinance also aims to reduce any increases in stormwater runoff from land development to reduce flooding and additional environmental harm.

Building Construction Administration: In accordance to Title 19 NYCRR 1203.2(a), the Village complies with New York State Uniform Fire Prevention and Building Code (the Uniform Code) and the State Energy Conservation Construction Code (the Energy Code). The Building Department, headed by the Building Inspector, administers and enforces all of the provisions and laws applicable to the Uniform and Energy Code.

Funding

Operating Budget: The Village has funding in the Village Budget allocated for capital improvement projects.

Education and Outreach

The Village posts news updates on their website to provide residents with information regarding the Village; these updates can include information and warnings for upcoming storm events. The Village provides informational materials for stormwater management, including green infrastructure, pollution control, and hazardous waste disposal at locations throughout the town; these materials came from Village Hall and Cornell Cooperative Extension Offices. Information is also posted upon public bulletin boards.

Rockland County provides the following services to its municipalities:

- County provides Towns and Villages palm-cards on winter storms; information regarding flooding; hurricane; high-winds, tornadoes via email and social media (Twitter and Facebook).
- Emergency Notification Systems: Rockland County has mapping services available to municipalities through their on-line web map portal. Disaster Land is a web-based emergency management software system; municipalities are granted access to it; flood inundation zones are incorporated into it so Emergency Coordinator from the municipality has access to it 24/7 on smart phone/laptop/desktop.

The County utilizes NY-Alert and CodeRed (the backup to NY-Alert) for emergency notifications (all Towns and Villages have access to it). There is a mailbox for known inundation areas to target outreach as needed; and have license for FEMA's IPAWS to issue notifications.

9.23.6 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritization.

Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2010 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under 'Capability Assessment' presented previously in this annex.

Table 9.23-11. Status of Previous Mitigation Actions

<u>Action Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2018 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
0.A	Re-engineer and rebuild the stream culvert at the intersection of Midland Ave. and Old Mountain Rd. to prevent flooding of this critical emergency access intersection and to increase capacity of this key drainage system.	Dept. of Public Works	No Progress	1) 50% 2) Preliminary review of conditions made. Project to be added to Capital Plan. 3) Funding to be pursued and secured.	Include in 2018 HMP	Seek additional funding
0.B	Re-engineer and rebuild the stormwater detention pond and outfall located on the Nyack High School property (permission already obtained) to prevent flooding of a critical emergency access road intersection and to moderate flow in the Old Mountain Road stream, a critical Village drainage feature.	Dept. of Public Works	In Progress	1) 100% 2) School District has bonded improvements to various facilities, detention pond has been repaired, other improvements on the High School site will reduce run-off volumes from the site 3) School District budget	Discontinue	Discontinue due to work done by School District
0.C	Replace catch basins on Larchdale Avenue with larger units to prevent overflow across roadway and across residential properties and homes.	Dept. of Public Works	Complete	1) 100% 2) DPW crew has uncovered pipe on the north side of the roadway and re-established inlets to that pipe. Surface grates replaced. 3) Municipal budget	Discontinue	Completed work
0.D	Re-engineer and rebuild the storm drain complex on Lexow Ave. and its outfall at Broadway to prevent outflow and flooding of homes between Broadway and the Hudson River.	Village Engineer, Village Board	In Progress	1) 50% 2) Engineering design and construction documents in progress. Anticipate bidding and construction late 2017, pending acquisition of necessary easements 3) Municipal budget	Include in 2018 HMP	After acquisition of easements, send out requests for proposals and begin construction in late 2017

<u>Action Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2018 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
1.B	Ensure that local comprehensive plans incorporate natural disaster mitigation techniques through a courtesy review or draft plans by the County Planning Department.	CPG member; Village Trustee	In Progress	1) 50% 2) Village is presently updating the Comprehensive Plan, anticipate draft Plan early 2018 which will be referred to the County under GML-239 3) Municipal budget	Include in 2018 HMP	Continue working to complete draft plan
2.A	Expand and disseminate GIS and other hazard information on the internet.	CPG member; Village Trustee	No Progress	1) 0% 2) Limited GIS capability 3) N/A	Include in 2018 HMP	Work with County GIS staff to fulfill this action.
2.B	Work with local municipalities to pursue the development of an Emergency Notification System call perimeter for high risk locations of natural hazards with delineable hazard areas. Rockland County staff will make aerial mapping available, along with GIS mapping for natural hazards that was completed as part of the hazard mitigation planning project. The County will also facilitate the utilization of the Emergency Notification System by municipalities.	CPG member; Village Trustee	Complete	1) 100% 2) Rockland County has mapping services available to municipalities through their on-line web map portal. Disaster Land is a web-based emergency management software system; municipalities are granted access to it; flood inundation zones are incorporated into it so Emergency Coordinator from the municipality has access to it 24/7 on smart phone/laptop/desktop. The County utilizes NY-Alert and CodeRed (the backup to NY-Alert) for emergency notifications (all Towns and Villages have access to it; New Hempstead not using CodeRed). There is a mailbox for known inundation areas to target outreach as needed; and have license for FEMA's IPAWS to issue notifications. 3) County budget	Discontinue	Complete

Action Number	2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2018 HMP or Discontinue)	Describe Next Step 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Old UN-1	Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.	CPG member; Village Trustee	No Progress	1) 0% 2) No formal workshops scheduled to date. Planning Board and ZBA include these issues in all reviews. 3) N/A	Include in 2018 HMP	Boards to continue to include hazard mitigation into development reviews.
4.F	Continue to implement best management practices for floodplain areas.	CPG member; Village Trustee	Complete	1) 100% 2) Continually looking for best management practices during new development and redevelopment 3) Municipal budget	Discontinue	Action no longer required – standard practice
4.G	Identify and document repetitively flooded properties. Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.	CPG member; Village Trustee	No Progress	1) 0% 2) No mapped floodplains except Hudson River waterfront. Claims data not provided to the municipality except by request. 3) N/A	Include in 2018 HMP	Obtain NFIP property data
4.J	Develop specific mitigation solutions for floodprone road systems (roads, bridges, intersections, drainage, etc.) under the leadership of County DPW.	CPG member; Village Trustee	In Progress	1) 50% 2) Areas of concern identified by the Village. Project priorities and funding to be determined on an ongoing basis. 3) Municipal budget	Include in 2018 HMP	Work to determine solutions for identified areas
13.A	Determine the year built and level of protection for critical emergency facilities and shelters to highlight structures built before codes and standards were put in place to provide some degree of protection from natural hazards, and pursue potential mitigation opportunities to protect these sites as funding becomes available.	CPG member; Village Trustee	No Progress	1) 0% 2) Resources devoted to other priorities 3) N/A	Include in 2018 HMP	Obtain funding and resources to complete action

Action Number	2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2018 HMP or Discontinue)	Describe Next Step 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
11.B	Review existing emergency response plans for enhancement opportunities: work with social support agencies, homeowners associations and general public to develop and implement monitoring and warning systems focused on vulnerable populations and provision of adequate shelter facilities.	CPG member; Village Trustee	No Progress	1) 0% 2) Limited resources for direct work by the Village. 3) N/A	Include in 2018 HMP	Coordinate with Clarkstown regarding emergency management efforts
Old UN-2	Public awareness program on hazards, prevention and mitigation: assist CPG Chairperson in maintenance of mitigation planning web presence; assist CPG Chairperson in preparation of annual hazards and mitigation planning fact sheet and its distribution; assist CPG chairperson in preparation of hazards survey; periodic discussion of hazard mitigation and the mitigation plan at other regular local meetings; use of annual flyers, newsletters, advertisements, or radio/TV announcements, etc. at the discretion of the jurisdiction (incorporating as much free information as possible from the FEMA publications warehouse and other appropriate sources).	RCOFES lead with direct participation and involvement from each jurisdiction's CPG member	Complete	1) 100% 2) County provided materials for display within the Village 3) Municipal budget, County budget	Discontinue	Complete
Old UN-3	Code update: review existing local codes and ordinances against the identified hazards to determine whether there needs to be any amendments to address identified hazards and, where a need is identified; modify/amend the codes/ordinances as applicable.	Each jurisdictional CPG member	In Progress	1) 50% 2) Village has implemented several code revisions addressing stormwater management, steep slopes, and tree removal. 3) Municipal budget	Include in 2018 HMP	Comprehensive Plan review will create recommendations for future modifications.

Action Number	2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2018 HMP or Discontinue)	Describe Next Step 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Old UN-4	Code enforcement: enforcement of NYS and local building codes	Each jurisdictional CPG member	Complete	1) Complete 2) Building codes enforced 3) Municipal budget	Discontinue	Action no longer required – standard practice
Old UN-5	Update/revise floodplain management ordinance to comply with latest FEMA regulations	Village Board	Complete	1) 100% 2) Adopted by Village per model Local Law provided by NYSDEC 3) Municipal budget	Discontinue	Completed, will be modified as required by issuance of new FIS by FEMA
Old UN-6	Designate/install a specific person to be the Village Floodplain Administrator	Village Board	In Progress	1) 100% 2) Adopted by Village per model Local Law provided by NYSDEC 3) Municipal budget art of Local Law above	Discontinue	Completed
Old UN-7	Add/train sufficient members of staff to adequately enforce NFIP regulations/floodplain management ordinances	Village Board	Complete	1) 100% 2) Floodplain Administrator is adequately trained 3) Municipal budget	Discontinue	Completed
Old UN-8	Update/review floodplain management ordinances to be consistent with potential future new FIRMs	Village Board	In Progress	1) 10% 2) Ordinance being reviewed. 3) Municipal budget	Include in 2018 HMP	Ordinance will be modified as required by issuance of new FIS by FEMA
Old UN-9	Require staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs)	Village Board	No Progress	1) 0% 2) Limited resources 3) N/A	Include in 2018 HMP	Encourage staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs)
Old UN-10	Join the Community Rating System (CRS)	Village Board	No Progress	1) 0% 2) Limited resources and designated floodplain areas in the Village 3) N/A	Include in 2018 HMP	Investigate joining the CRS

Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The Village of Upper Nyack has not identified any mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2010 Plan:

Proposed Hazard Mitigation Initiatives for the Plan Update

The Village of Upper Nyack participated in a mitigation action workshop on February 16, 2016 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 'Selecting Appropriate Mitigation Measures for Floodprone Structures' (March 2007) and FEMA 'Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards' (January 2013).

Table 9.23-12 summarizes the comprehensive-range of specific mitigation initiatives the Village of Upper Nyack would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6, 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as 'High', 'Medium', or 'Low.' The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.23-13 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.

Table 9.23-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures *	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
UN-1 (Old 0.A)	Re-engineer and rebuild the stream culvert at the intersection of Midland Ave. and Old Mountain Rd. to prevent flooding of this critical emergency access intersection and to increase capacity of this key drainage system.	New / Existing	Flooding	No	Village Board, Village Engr.	Med	High	FMA, HMGP, PDM	Short	Medium	SIP	PP
UN-2 (Old 0.D)	Re-engineer and rebuild the storm drain complex on Lexow Ave. and its outfall at Broadway to prevent outflow and flooding of homes between Broadway and the Hudson River.	New / Existing	Flooding	No	Village Board, Village Engr.	Med	High	FMA, HMGP, PDM	Short	High	SIP	SP
UN-3 (Old 1.B)	Ensure that local comprehensive plans incorporate natural disaster mitigation techniques through a courtesy review or draft plans by the County Planning Department.	New / Existing	Flooding, Wind Damage	No	Village Planning Board, County Planning	Med	Low	Local	Medium	Medium	LPR	PR
UN-4 (Old 2.A)	Expand and disseminate GIS and other hazard information on the internet.	New / Existing	All	No	County GIS	Med	Low	County	DOF	Low	EAP	PI
UN-5 (Old UN-1)	Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.	New / Existing	All	No	TBD	Med	Med	Local	DOF	Low	EAP	PI
UN-6 (Old 4.G)	Identify and document repetitively flooded properties. Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible,	Existing	Flooding	Yes	Village Board, Village Engr., RC GIS	High	High	FMA, HMGP	DOF	Low	SIP	PR

Table 9.23-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures *	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.											
UN-7 (Old 4.J)	Develop specific mitigation solutions for floodprone road systems (roads, bridges, intersections, drainage, etc.) under the leadership of County DPW.	New / Existing	Flooding	No	Village Board, DPW, Village Engr.	Medium	Low	HMGP	DOF	Med	SIP NSP	PR SP
UN-8 (Old 13.A)	Determine the year built and level of protection for critical emergency facilities and shelters to highlight structures built before codes and standards were put in place to provide some degree of protection from natural hazards, and pursue potential mitigation opportunities to protect these sites as funding becomes available.	New / Existing	All	No	Bldg. Insp.	Medium	Med	Local	DOF	Med	EAP	PR
UN-9 (Old 11.B)	Review existing emergency response plans for enhancement opportunities: work with social support agencies, homeowners associations and general public to develop and implement monitoring and warning systems focused on	N/A	N/A	No	Town Emergency Manager, RCOFES	Medium	Medium	Local	DOF	Low	EAP	PR PI ES

Table 9.23-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures *	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	vulnerable populations and provision of adequate shelter facilities.											
UN-10 (Old UN-3)	Code update: review existing local codes and ordinances against the identified hazards to determine whether there needs to be any amendments to address identified hazards and, where a need is identified; modify/amend the codes/ordinances as applicable.	New / Existing	All	No	Village Board, Planning Board	High	Med	Local	DOF	Med	LPR	PR NR
UN-11 (Old UN-8)	Update/review floodplain management ordinances to be consistent with potential future new FIRMs	New / Existing	Flooding	OG	Village Board, FPA	High	Low	Local	OG	High	LPR	PR
UN-12 (Old UN-9)	Encourage staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs)	New / Existing	Flooding	OG	Village Board, FPA	High	Low	Local	DOF	Low	EAP	PR
UN-13 (Old UN-10)	Join the Community Rating System (CRS)	New / Existing	Flooding	No	Village Board, FPA	Med	Med	Local, Grant funding	DOF	Low	EAP	PR
UN-14	Develop and maintain mapping of all natural hazard risk areas in the Village, FEMA delineated or otherwise, to support land use decision making (e.g. Planning Board, site plan review process)	New/Existing	All Hazard	1, 2, 3, 4, 6	Village Board, Planning Board	Medium	Low	Municipal Budget	DOF	Medium	EAP	PR

Notes:



Not all acronyms and abbreviations defined below are included in the table.

*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

Acronyms and Abbreviations:

CAV	Community Assistance Visit
CRS	Community Rating System
DPW	Department of Public Works
FEMA	Federal Emergency Management Agency
FPA	Floodplain Administrator
HMA	Hazard Mitigation Assistance
N/A	Not applicable
NFIP	National Flood Insurance Program
OEM	Office of Emergency Management

Potential FEMA HMA Funding Sources:

FMA	Flood Mitigation Assistance Grant Program
HMGF	Hazard Mitigation Grant Program
PDM	Pre-Disaster Mitigation Grant Program
RFC	Repetitive Flood Claims Grant Program (discontinued in 2015)
SRL	Severe Repetitive Loss Grant Program (discontinued in 2015)

Timeline:

Short	1 to 5 years
Long Term	5 years or greater
OG	On-going program
DOF	Depending on funding

Costs:

Where actual project costs have been reasonably estimated:

Low	< \$10,000
Medium	\$10,000 to \$100,000
High	> \$100,000

Where actual project costs cannot reasonably be established at this time:

Low	Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.
Medium	Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.
High	Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

Low=	< \$10,000
Medium	\$10,000 to \$100,000
High	> \$100,000

Where numerical project benefits cannot reasonably be established at this time:

Low	Long-term benefits of the project are difficult to quantify in the short term.
Medium	Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.
High	Project will have an immediate impact on the reduction of risk exposure to life and property.

Mitigation Category:

- Local Plans and Regulations (LPR) – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- Structure and Infrastructure Project (SIP) - These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- Natural Systems Protection (NSP) – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- Education and Awareness Programs (EAP) – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

CRS Category:

- Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection (PP) - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.



- *Public Information (PI) - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.*
- *Natural Resource Protection (NR) - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.*
- *Structural Flood Control Projects (SP) - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.*
- *Emergency Services (ES) - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities*

Table 9.23-13. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
UN-1 (Old 0.A)	Re-engineer and rebuild the stream culvert at the intersection of Midland Ave. and Old Mountain Rd. to prevent flooding of this critical emergency access intersection and to increase capacity of this key drainage system.	0	1	-1	1	1	1	-1	0	1	1	0	1	1	0	6	Medium
UN-2 (Old 0.D)	Re-engineer and rebuild the storm drain complex on Lexow Ave. and its outfall at Broadway to prevent outflow and flooding of homes between Broadway and the Hudson River.	0	1	-1	1	1	1	-1	0	1	1	0	1	1	0	6	High
UN-3 (Old 1.B)	Ensure that local comprehensive plans incorporate natural disaster mitigation techniques through a courtesy review or draft plans by the County Planning Department.	1	1	0	1	1	1	0	0	0	1	1	0	0	0	7	Medium
UN-4 (Old 2.A)	Expand and disseminate GIS and	0	1	1	0	0	1	0	0	1	1	1	0	0	0	6	Medium

Table 9.23-13. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
	other hazard information on the internet.																
UN-5 (Old UN-1)	Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.	0	1	0	0	0	1	0	0	0	1	1	0	0	0	4	Low
UN-6 (Old 4.G)	Continue to implement best management practices for floodplain areas.	1	1	1	1	1	1	0	0	0	1	0	1	0	0	8	High
UN-7 (Old 4.J)	Identify and document repetitively flooded properties. Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.	1	1	1	1	0	1	0	0	0	1	0	0	0	0	6	Low
UN-8 (Old 13.A)	Develop specific mitigation solutions for floodprone road systems (roads,	1	1	0	1	1	1	0	0	0	1	0	0	1	0	7	Medium

Table 9.23-13. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
	bridges, intersections, drainage, etc.) under the leadership of County DPW.																
UN-9 (Old 11.B)	Determine the year built and level of protection for critical emergency facilities and shelters to highlight structures built before codes and standards were put in place to provide some degree of protection from natural hazards, and pursue potential mitigation opportunities to protect these sites as funding becomes available.	1	1	0	1	0	1	0	0	0	1	1	0	0	0	6	Medium
UN-10 (Old UN-3)	Review existing emergency response plans for enhancement opportunities: work with social support agencies, homeowners associations and general public to develop and implement monitoring and	1	1	0	1	0	1	0	0	0	1	1	0	0	0	6	Medium

Table 9.23-13. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
	warning systems focused on vulnerable populations and provision of adequate shelter facilities.																
UN-11 (Old UN-8)	Code update: review existing local codes and ordinances against the identified hazards to determine whether there needs to be any amendments to address identified hazards and, where a need is identified; modify/amend the codes/ordinances as applicable.	0	1	1	1	0	1	0	0	0	1	1	0	0	0	6	Medium
UN-12 (Old UN-9)	Code enforcement: enforcement of NYS and local building codes	1	1	1	1	1	1	0	0	0	1	1	0	0	0	8	High
UN-13 (Old UN-10)	Update/review floodplain management ordinances to be consistent with potential future new FIRMs	1	1	1	1	1	1	0	0	0	1	0	0	0	0	7	Medium
UN-14	Encourage staff involved in floodplain management and	0	1	0	0	0	1	0	0	0	1	0	0	0	0	3	Low

Table 9.23-13. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community	Total	High / Medium / Low
	ordinance enforcement to become Certified Floodplain Managers (CFMs)																
UN-15 (Old UN-10)	Join the Community Rating System (CRS)	0	0	0	1	0	1	0	0	0	1	0	0	0	0	3	Low
UN-14	Develop and maintain mapping of all natural hazard risk areas in the Village, FEMA delineated or otherwise, to support land use decision making (e.g. Planning Board, site plan review process)	1	1	1	1	0	1	1	0	0	1	1	0	0	0	8	Medium

Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions.

9.23.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

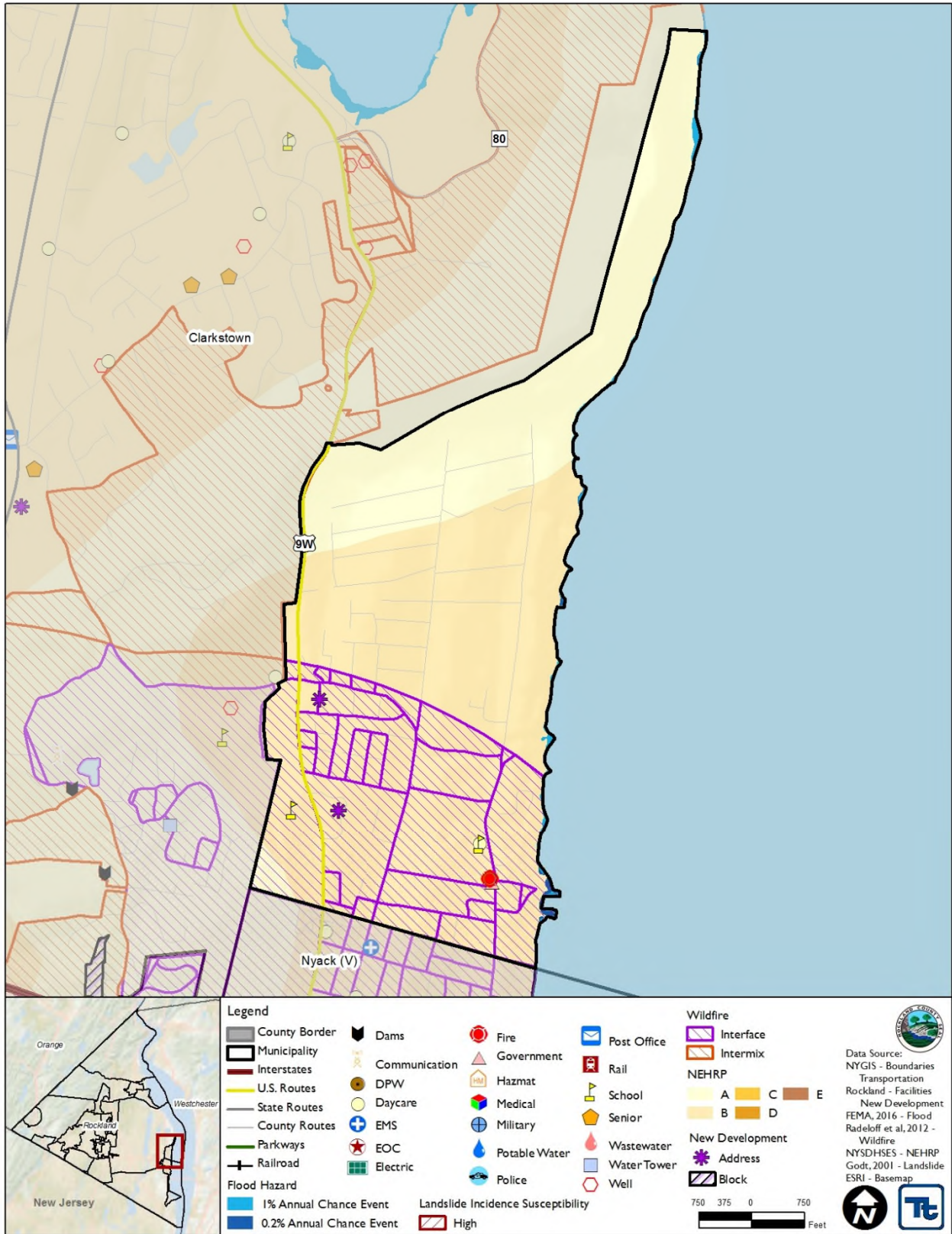
9.23.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Village of Upper Nyack that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Village of Upper Nyack has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.23.9 Additional Comments

None at this time.

Figure 9.23-1. Village of Upper Nyack Hazard Area Extent and Location Map



Action Number: UN-1
Mitigation Action Name: Re-engineer and rebuild the stream culvert at the intersection of Midland Ave. and Old Mountain Rd. to prevent flooding of this critical emergency access intersection and to increase capacity of this key drainage system.

Assessing the Risk	
Hazard(s) addressed:	Flooding
Specific problem being mitigated:	Flooding at the intersection of Midland Ave and Old Mountain Road
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - Current problem persists. Remove culvert and relocate streets – not feasible
Action/Project Intended for Implementation	
Description of Selected Action/Project	Upgrade of the culvert at the intersection of Midland Ave and Old Mountain Rd to increase the stormwater capacity and help to mitigate local flooding.
Mitigation Action Type	SIP
Goals Met	No
Applies to existing and or new development, or not applicable	New / Existing
Benefits (losses avoided)	Med
Estimated Cost	High
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village Board, Village Engr.
Local Planning Mechanism	Hazard Mitigation, Engineering
Potential Funding Sources	FMA, HMGP, PDM
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Preliminary review of conditions made. Project to be added to Capital Plan. Funding to be pursued and secured.

Action Number:

UN-1

Mitigation Action Name:

Re-engineer and rebuild the stream culvert at the intersection of Midland Ave. and Old Mountain Rd. to prevent flooding of this critical emergency access intersection and to increase capacity of this key drainage system.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	-1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	6	
Priority (H/M/L)	Medium	

Action Number: UN-2
Mitigation Action Name: Re-engineer and rebuild the storm drain complex on Lexow Ave. and its outfall at Broadway to prevent outflow and flooding of homes between Broadway and the Hudson River.

Assessing the Risk	
Hazard(s) addressed:	Flooding
Specific problem being mitigated:	Flooding of residential properties between Broadway and the Hudson River.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - Current problem persists. Buyout homes that susceptible to flooding – cost, flooding issue persists on roadway
Action/Project Intended for Implementation	
Description of Selected Action/Project	Upgrade the storm drain complex on Lexow Ave and its outfall on Broadway to allow for increase stormwater capacity and mitigate local flooding.
Mitigation Action Type	SIP
Goals Met	No
Applies to existing and or new development, or not applicable	New / Existing
Benefits (losses avoided)	Med
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Village Board, Village Engr.
Local Planning Mechanism	Hazard Mitigation, Engineering
Potential Funding Sources	FMA, HMGP, PDM
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Engineering design and construction documents in progress. Anticipate bidding and construction late 2017, pending acquisition of necessary easements

Action Number:

UN-2

Mitigation Action Name:

Re-engineer and rebuild the storm drain complex on Lexow Ave. and its outfall at Broadway to prevent outflow and flooding of homes between Broadway and the Hudson River.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	-1	
Technical	1	
Political	1	
Legal	1	
Fiscal	-1	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	0	
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	6	
Priority (H/M/L)	High	

Action Number: UN-3
Mitigation Action Name: Ensure that local comprehensive plans incorporate natural disaster mitigation techniques through a courtesy review or draft plans by the County Planning Department.

Assessing the Risk	
Hazard(s) addressed:	Flooding, Wind
Specific problem being mitigated:	The current comprehensive plan does not incorporate natural disaster mitigation techniques
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - Current problem persists. Request reviews from local colleges and universities– may not be capable/willing
Action/Project Intended for Implementation	
Description of Selected Action/Project	Ensure that local comprehensive plans incorporate natural disaster mitigation techniques through a courtesy review or draft plans by the County Planning Department.
Mitigation Action Type	LPR
Goals Met	1, 2, 3, 5, 7
Applies to existing and or new development, or not applicable	New / Existing
Benefits (losses avoided)	Med
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village Planning Board, County Planning
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	Local
Timeline for Completion	Medium
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Village is presently updating the Comprehensive Plan, anticipate draft Plan early 2018 which will be referred to the County under GML-239

Action Number:

UN-3

Mitigation Action Name:

Ensure that local comprehensive plans incorporate natural disaster mitigation techniques through a courtesy review or draft plans by the County Planning Department.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	0	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	
Timeline	0	
Agency Champion	0	
Other Community Objectives	0	
Total	7	
Priority (H/M/L)	Medium	

Action Number: UN-4
Mitigation Action Name: Expand and disseminate GIS and other hazard information on the internet.

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	Lack of public knowledge on the spatial extent of hazards.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - Current problem persists. Request assistance from local colleges and universities in developing GIS mapping – may not be feasible, sustainable
Action/Project Intended for Implementation	
Description of Selected Action/Project	Provide GIS hazard information online for residents and others in the community to view the Village's hazard vulnerabilities.
Mitigation Action Type	EAP
Goals Met	All
Applies to existing and or new development, or not applicable	New / Existing
Benefits (losses avoided)	Med
Estimated Cost	Low
Priority*	Low
Plan for Implementation	
Responsible Organization	County GIS
Local Planning Mechanism	Hazard Mitigation, Public Education
Potential Funding Sources	County
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Work with County GIS staff to fulfill this action.

Action Number: UN-4

Mitigation Action Name: Expand and disseminate GIS and other hazard information on the internet.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	1	
Technical	0	
Political	0	
Legal	1	
Fiscal	0	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	
Timeline	0	
Agency Champion	0	
Other Community Objectives	0	
Total	6	
Priority (H/M/L)	Low	

Action Number: UN-5
Mitigation Action Name: Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	The public may not be aware of the Village's hazard vulnerabilities and planning/zoning decisions.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - Current problem persists. Rely on outside groups to conduct public outreach – may not be sustainable or at high enough standards
Action/Project Intended for Implementation	
Description of Selected Action/Project	Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.
Mitigation Action Type	EAP
Goals Met	1, 2, 3, 5, 7
Applies to existing and or new development, or not applicable	New / Existing
Benefits (losses avoided)	Med
Estimated Cost	Med
Priority*	Low
Plan for Implementation	
Responsible Organization	CPG member; Village Trustee
Local Planning Mechanism	Hazard Mitigation, Public Education
Potential Funding Sources	Local
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: No formal workshops scheduled to date. Planning Board and ZBA include these issues in all reviews.

Action Number:

UN-5

Mitigation Action Name:

Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	0	
Technical	0	
Political	0	
Legal	1	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	
Timeline	0	
Agency Champion	0	
Other Community Objectives	0	
Total	4	
Priority (H/M/L)	Low	

Action Number:	UN-6
Mitigation Action Name:	Identify and document repetitively flooded properties. Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.

Assessing the Risk	
Hazard(s) addressed:	Flooding
Specific problem being mitigated:	Repetitively flooded properties place an undue stress on the property owner and village and efforts should be made to mitigate them.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - Current problem persists. Identify areas where repetitive loss is likely – approach not as focused, may be more costly
Action/Project Intended for Implementation	
Description of Selected Action/Project	Identify and document repetitively flooded properties. Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.
Mitigation Action Type	SIP
Goals Met	1, 2, 3, 5, 7
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	Low
Plan for Implementation	
Responsible Organization	Village Board, Village Engr., RC GIS
Local Planning Mechanism	Hazard Mitigation, Public Education
Potential Funding Sources	FMA, HMGP
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: No mapped floodplains except Hudson River waterfront. Claims data not provided to the municipality except by request.

Action Number:

UN-6

Mitigation Action Name:

Identify and document repetitively flooded properties. Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	1	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	0	
Agency Champion	0	
Other Community Objectives	0	
Total	6	
Priority (H/M/L)	Low	

Action Number: UN-7
Mitigation Action Name: Develop specific mitigation solutions for floodprone road systems (roads, bridges, intersections, drainage, etc.) under the leadership of County DPW.

Assessing the Risk	
Hazard(s) addressed:	Flooding
Specific problem being mitigated:	Floodprone roads can inhibit emergency response and evacuation during a flood.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - Current problem persists. Relocate floodprone road systems – not feasible
Action/Project Intended for Implementation	
Description of Selected Action/Project	Develop specific mitigation solutions for floodprone road systems (roads, bridges, intersections, drainage, etc.) under the leadership of County DPW.
Mitigation Action Type	SIP, NSP
Goals Met	1, 2, 4
Applies to existing and or new development, or not applicable	New / Existing
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	Med
Plan for Implementation	
Responsible Organization	Village Board, DPW, Village Engr.
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	HMGP
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Areas of concern identified by the Village. Project priorities and funding to be determined on an ongoing basis.

Action Number:

UN-7

Mitigation Action Name:

Develop specific mitigation solutions for floodprone road systems (roads, bridges, intersections, drainage, etc.) under the leadership of County DPW.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	0	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	7	
Priority (H/M/L)	Med	

Action Number:

UN-8

Mitigation Action Name:

Determine the year built and level of protection for critical emergency facilities and shelters to highlight structures built before codes and standards were put in place to provide some degree of protection from natural hazards, and pursue potential mitigation opportunities to protect these sites as funding becomes available.

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	If facilities were built before a certain date, they could be more susceptible to damage from a hazard event.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - Current problem persists. Rebuild all critical facilities and shelters - cost
Action/Project Intended for Implementation	
Description of Selected Action/Project	Determine the year built and level of protection for critical emergency facilities and shelters to highlight structures built before codes and standards were put in place to provide some degree of protection from natural hazards, and pursue potential mitigation opportunities to protect these sites as funding becomes available.
Mitigation Action Type	EAP
Goals Met	1, 2, 5, 7
Applies to existing and or new development, or not applicable	New / Existing
Benefits (losses avoided)	Medium
Estimated Cost	Med
Priority*	Med
Plan for Implementation	
Responsible Organization	Bldg. Insp.
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	Local
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Resources devoted to other priorities.

Action Number:

UN-8

Mitigation Action Name:

Determine the year built and level of protection for critical emergency facilities and shelters to highlight structures built before codes and standards were put in place to provide some degree of protection from natural hazards, and pursue potential mitigation opportunities to protect these sites as funding becomes available.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	0	
Technical	1	
Political	0	
Legal	1	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	
Timeline	0	
Agency Champion	0	
Other Community Objectives	0	
Total	6	
Priority (H/M/L)	Med	

Action Number:	UN-9
Mitigation Action Name:	Review existing emergency response plans for enhancement opportunities: work with social support agencies, homeowners associations and general public to develop and implement monitoring and warning systems focused on vulnerable populations and provision of adequate shelter facilities.

Assessing the Risk	
Hazard(s) addressed:	N/A
Specific problem being mitigated:	The current emergency response plans do not implement monitoring or warning systems
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - Current problem persists. Update emergency response plans but do not incorporate monitoring or warning systems – current problem persists
Action/Project Intended for Implementation	
Description of Selected Action/Project	Review existing emergency response plans for enhancement opportunities: work with social support agencies, homeowners associations and general public to develop and implement monitoring and warning systems focused on vulnerable populations and provision of adequate shelter facilities.
Mitigation Action Type	EAP
Goals Met	1, 2, 5, 7
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium
Estimated Cost	Medium
Priority*	Low
Plan for Implementation	
Responsible Organization	Town Emergency Manager,, RCOFES
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	Local
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Limited resources for direct work by the Village. Coordinate with Clarkstown regarding emergency management efforts

Action Number:

UN-9

Mitigation Action Name:

Review existing emergency response plans for enhancement opportunities: work with social support agencies, homeowners associations and general public to develop and implement monitoring and warning systems focused on vulnerable populations and provision of adequate shelter facilities.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	0	
Technical	1	
Political	0	
Legal	1	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	
Timeline	0	
Agency Champion	0	
Other Community Objectives	0	
Total	6	
Priority (H/M/L)	Low	

Action Number:

UN-10

Mitigation Action Name:

Code update: review existing local codes and ordinances against the identified hazards to determine whether there needs to be any amendments to address identified hazards and, where a need is identified; modify/amend the codes/ordinances as applicable.

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	New vulnerabilities could have emerge or existing vulnerabilities could have worsen, which could warrant a code update.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - Current problem persists. Encourage residents to use higher standards but do not enforce new code requirements dealing with hazards – sporadic impact
Action/Project Intended for Implementation	
Description of Selected Action/Project	The Village would like to review and potentially update their existing local codes/ordinances against the identified hazards to determine whether there needs to be any amendments to address identified hazards and, where a need is identified; modify/amend the codes/ordinances as applicable.
Mitigation Action Type	LPR
Goals Met	1, 2, 3, 5, 7
Applies to existing and or new development, or not applicable	New / Existing
Benefits (losses avoided)	High
Estimated Cost	Med
Priority*	Med
Plan for Implementation	
Responsible Organization	Village Board, Planning Board
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	Local
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Village has implemented several code revisions addressing stormwater management, steep slopes, tree removal. Comprehensive Plan review will create recommendations for future modifications.

Action Number:
Mitigation Action Name:

UN-10

Code update: review existing local codes and ordinances against the identified hazards to determine whether there needs to be any amendments to address identified hazards and, where a need is identified; modify/amend the codes/ordinances as applicable.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	1	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	
Timeline	0	
Agency Champion	0	
Other Community Objectives	0	
Total	6	
Priority (H/M/L)	Med	

Action Number: UN-11
Mitigation Action Name: Update/review floodplain management ordinances to be consistent with potential future new FIRMs

Assessing the Risk	
Hazard(s) addressed:	Flooding
Specific problem being mitigated:	Future FIRMS could show the need for a more stringent flood ordinance if risk has increased.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - Current problem persists. Write new floodplain management ordinance with every new FIRM – not cost effective and repetitive
Action/Project Intended for Implementation	
Description of Selected Action/Project	Update/review floodplain management ordinances to be consistent with potential future new FIRMs
Mitigation Action Type	LPR
Goals Met	1, 2, 3, 7
Applies to existing and or new development, or not applicable	New / Existing
Benefits (losses avoided)	High
Estimated Cost	Low
Priority*	High
Plan for Implementation	
Responsible Organization	Village Board, FPA
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	Local
Timeline for Completion	OG
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Ordinance will be modified as required by issuance of new FIS by FEMA

Action Number:

UN-11

Mitigation Action Name:

Update/review floodplain management ordinances to be consistent with potential future new FIRMs

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	0	
Agency Champion	0	
Other Community Objectives	0	
Total	7	
Priority (H/M/L)	High	

Action Number: UN-12
Mitigation Action Name: Encourage staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs)

Assessing the Risk	
Hazard(s) addressed:	Flooding
Specific problem being mitigated:	Floodplain management and ordinance enforcement staff are not Certified Floodplain Managers
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - Current problem persists. Have staff attend courses on floodplain management but not become CFM's – lack of recognition from national organization. CRS awards points for CFM's
Action/Project Intended for Implementation	
Description of Selected Action/Project	Encourage staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs)
Mitigation Action Type	EAP
Goals Met	1, 2, 3, 7
Applies to existing and or new development, or not applicable	New / Existing
Benefits (losses avoided)	High
Estimated Cost	Low
Priority*	Low
Plan for Implementation	
Responsible Organization	Village Board, FPA
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	Local
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Limited resources

Action Number:

UN-12

Mitigation Action Name:

Encourage staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs)

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	
Cost-Effectiveness	0	
Technical	0	
Political	0	
Legal	1	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	0	
Agency Champion	0	
Other Community Objectives	0	
Total	3	
Priority (H/M/L)	Low	

Action Number: UN-13
Mitigation Action Name: Join the Community Rating System (CRS)

Assessing the Risk	
Hazard(s) addressed:	Flooding
Specific problem being mitigated:	The Village is not in the CRS program
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - Current problem persists. Create municipal program to go above and beyond the requirements of NFIP – no flood insurance premium discounts
Action/Project Intended for Implementation	
Description of Selected Action/Project	Join the Community Rating System (CRS)
Mitigation Action Type	EAP
Goals Met	1, 2, 3, 7
Applies to existing and or new development, or not applicable	New / Existing
Benefits (losses avoided)	Med
Estimated Cost	Med
Priority*	Low
Plan for Implementation	
Responsible Organization	Village Board, FPA
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	Local, Grant funding
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Limited resources and designated floodplain areas in the Village

Action Number:

UN-13

Mitigation Action Name:

Join the Community Rating System (CRS)

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	0	
Cost-Effectiveness	0	
Technical	1	
Political	0	
Legal	1	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	0	
Timeline	0	
Agency Champion	0	
Other Community Objectives	0	
Total	3	
Priority (H/M/L)	Low	

Action Number: UN-14
Mitigation Action Name: Develop and maintain mapping of all natural hazard risk areas in the Village, FEMA delineated or otherwise, to support land use decision making (e.g. Planning Board, site plan review process)

Assessing the Risk	
Hazard(s) addressed:	All Hazard
Specific problem being mitigated:	Development in hazard areas can lead to avoidable casualties and property damage.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Request assistance from local colleges and universities in developing mapping – may not be capable/willing
Action/Project Intended for Implementation	
Description of Selected Action/Project	Spatial database of all natural hazard risk areas in the Village will allow land use decision makers to plan safe and resilient communities and developments.
Mitigation Action Type	EAP
Goals Met	1, 2, 3, 4, 6
Applies to existing and or new development, or not applicable	New/Existing
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village Board, Planning Board
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	Municipal Budget
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	No progress; new project

Action Number:

UN-14

Mitigation Action Name:

Develop and maintain mapping of all natural hazard risk areas in the Village, FEMA delineated or otherwise, to support land use decision making (e.g. Planning Board, site plan review process)

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	1	
Fiscal	1	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	
Timeline	0	
Agency Champion	0	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	