

9.3 VILLAGE OF CHESTNUT RIDGE

This section presents the jurisdictional annex for the Village of Chestnut Ridge.

9.3.1 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
Martin Spence, Village Engineer 86 E. Allendale Road, Saddle River, NJ 07458 201-934-0300 mkspence@spenceengineer.com	Russell Gliniecki, Building Inspector 277 Old Nyack Turnpike, Chestnut Ridge, NY 10977 845-425-8283 buildinginsp@chestnutridgevillage.org
NFIP Floodplain Administrator (FPA)	
Martin Spence, Village Engineer 201-934-0300 mkspence@spenceengineer.com	

9.3.2 Municipal Profile

The Village of Chestnut Ridge is located in the Town of Ramapo. It is bordered to the north by the Village of Spring Valley, to the south by New Jersey, to the east by the Towns of Orangetown and Clarkstown, and to the west by the Village of Airmont. The Village of Chestnut Ridge was incorporated in 1986. The Village has a total area of 4.9 square miles.

According to the 2010 Census, the Village’s population was 7,916.

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 9.3.8 of this annex which illustrates the hazard areas along with the location of potential new development.

Table 9.3-1. 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					
South Spring Valley Fire Dep’t Firehouse	Comm	1	Red Schoolhouse Rd B/L 63.13-1-7.1	None Identified.	Construction completed in the spring of 2016
William P. Faist Volunteer Ambulance Corps.	Comm	1	Red Schoolhouse Rd B/L 63.13-1-12&21	None Identified.	Under construction, will be completed in the spring of 2017
Par Pharmaceutical Parking Extension	Comm	1	Ram Ridge Rd B/L 63.17-1-8	None Identified.	Construction completed in the spring of 2016
Foster Church	Religious	1	Ram Ridge Rd B/L 63.17-2-19	None Identified.	Construction completed in the summer of 2015
Known or Anticipated Development in the Next Five (5) Years					
Piazza	Res	5	Scotland Hill Rd	Location Undetermined	Anticipated for 2018/19
Bella Vista	Res	10	Ackertown Rd	Location Undetermined	Anticipated for 2018

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
Artis Senior Living	Res	64	Chestnut Ridge Rd	Location Undetermined	Anticipated for 2018/19
Struli Oster	Res	3	Sima Ln	Location Undetermined	Anticipated for 2018/19

* Only location-specific hazard zones or vulnerabilities identified.

9.3.3 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 9.3-2. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	Rockland County Designated?	Summary of Damages/Losses
August 25 – September 5, 2011	Hurricane Irene DR-4020	Yes	Irene brought flooding along South Pascack Brook and Pine Brook which resulted in flooded roadways (Williams Road, Easbourne Drive). Several properties were inaccessible due to overflowing roadways (Williams Road, Grotke Road). Along the South Pascack Road, a culvert washed out and blocked the road. Many of the impacted roadways were closed for several days. Properties along Eastbourne Drive and Saddle River Road were substantially damaged as a result of this event. The Village received HMGP funding to install a new concrete culvert.

Notes:

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

9.3.4 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 Chestnut Ridge. 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 Chestnut Ridge.

Table 9.3-3. 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	33	High
Earthquake	100-Year GBS: \$0 500-Year GBS: \$591,488 2,500-Year GBS: \$13,455,981	Occasional	24	Medium
Extreme Temperature	Damage estimate not available	Frequent	30	Medium
Flood	1% Annual Chance: \$75,364,000	Frequent	36	High
Landslide	RCV Exposed: \$0	Rare	6	Low
Severe Storm	100-Year MRP: \$744,705 500-year MRP: \$2,442,702 Annualized: \$38,750	Frequent	48	High
Winter Storm	1% GBS: \$12,089,120 5% GBS: \$60,445,600	Frequent	51	High
Wildfire	Estimated Value in the WUI: \$397,225,000	Frequent	27	Medium

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.

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Chestnut Ridge.

Table 9.3-4. 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)
Chestnut Ridge, Village of	22	8	\$122,825	0	0	3

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

As displayed below, there are no identified critical facilities located in the FEMA-delineated 1- and/or 0.2-percent annual chance floodplain.

Table 9.3-5. 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:

- Streets along the Pasacack Brook are prone to flooding. This includes the following: Williams Road, Christine Drive, South Pascack Road, and Grotke Road.
- Streets along Pine Brook are prone to flooding and include the following: Eldorado Drive, Pine Brook Road, and Haller Crescent.
- According to the 2014 Rockland County Flood Insurance Study (FIS), flooding in the Village of Chestnut Ridge generally occurs during the spring and fall seasons. In the spring, snowmelt adds to heavy rains to produce increased runoff; in the fall, flooding can occur due to hurricane activity. Flood problems are typically caused by inadequate channel capacities and culver sizes (FEMA FIS 2014).

9.3.5 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 Chestnut Ridge.

Table 9.3-6. 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	No			
Capital Improvements Plan	No			
Floodplain Management / Basin Plan	Yes	County		
Stormwater Management Plan	Yes	Local	Village Engineer	
Open Space Plan	No			

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.)
Stream Corridor Management Plan	No			
Watershed Management or Protection Plan	Yes	State	NYS DEC	
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		
Zoning Ordinance	Yes	Local	Zoning Board of Appeals	Zoning Law
Subdivision Ordinance	Yes	Local	Planning Board	
NFIP Flood Damage Prevention Ordinance	Yes	Federal, State, Local		
NFIP: Cumulative Substantial Damages	No			
NFIP: Freeboard	Yes	State, Local		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 1994	Local	Planning Board	Site Development Plan Rules and Regulations
Stormwater Management Ordinance	Yes	Local		
Municipal Separate Storm Sewer System (MS4)	Yes	Local		
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])	Yes	Local	CDRC	Sub-committee of the Village Planning Board to provide preliminary reviews.

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Chestnut Ridge.



Table 9.3-7. Administrative and Technical Capabilities

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning Board, Zoning Board of Appeals
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	Yes	Stormwater Consortium of Rockland County
Technical/Staffing Capability		
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	Village Engineer
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	No	
NFIP Floodplain Administrator (FPA)	Yes	Engineer Consultant, currently Dennis Rocks from Spence Engineering
Surveyor(s)	No	
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	
Scientist familiar with natural hazards	No	
Emergency Manager	No	
Grant writer(s)	No	
Staff with expertise or training in benefit/cost analysis	No	
Professionals trained in conducting damage assessments	No	

Fiscal Capability

The table below summarizes financial resources available to the Village of Chestnut Ridge.

Table 9.3-8. 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	Yes, Village Board
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes, Village Board
Incur debt through special tax bonds	N/A
Incur debt through private activity bonds	N/A
Withhold public expenditures in hazard-prone areas	Yes, Village Board

Financial Resources	Accessible or Eligible to Use (Yes/No)
Other federal or state Funding Programs	Yes – Consolidated Local Street and Highway Improvement Program (CHIPs) through NYSDOT
Open Space Acquisition funding programs	Yes, Village Board
Other	No

Community Classifications

The table below summarizes classifications for community program available to the Village of Chestnut Ridge.

Table 9.3-9. 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	-	-
Public education program/outreach (through website, social media)	Yes	-	-
Public-private partnership initiatives addressing disaster-related issues	Yes	With ToR	-

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 Chestnut Ridge’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.3-10. 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	Limited staff (engineering and technical) to provide only routine and basic services.		
Administrative and technical capability	Limited staff (engineering and technical) to provide only routine and basic services.		
Fiscal capability	The Village is a small municipality with limited resources and budget. Not aware of FEMA mitigation funding sources.		
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)

The Village engineer, currently contracted through Spence Engineering is identified as the FPA. Dennis Rocks from Spence Engineering completed the FPA questionnaire as the acting FPA for the Village.

Flood Vulnerability Summary

The Village maintains lists/inventories of properties that have been damaged by floods. During recent events, approximately five residential structures were damaged; however, the FPA did not make substantial damage estimates during these events. There is currently no interest in mitigation (elevation or acquisition).

Resources

The FPA is the sole person assuming the responsibilities of floodplain management for the village. The FPA does receive assistance from their office staff if needed. The FPA performs all application reviews, issues permits/denials, as well as site inspections if required. Through the Rockland County Stormwater Consortium, the village provides community outreach including educational flyers, radio programs, etc.

The FPA indicated that there are currently no barriers to running an effective floodplain management program and that he feels adequately supported and trained to fulfill the role as village FPA. The FPA would consider attending continuing education and/or certification training on floodplain management if offered.

Compliance History

The Village is currently in good standing with the NFIP. Per NYS DHSES, the Village of Chestnut Ridge's last Community Assistance Visit was on April 27, 1990; no issues were noted.

Regulatory

The municipal flood damage prevention ordinances meets the minimum set by FEMA and New York State. There are other local ordinances, plans and programs in place that support floodplain management. The village is currently not in the CRS program nor have they considered joining.

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

Planning Board: The Planning Board made up of five Members and once a month on the first Thursday of the month. The Planning Board reviews and grants approvals for site plans and subdivisions. They also make recommendations to the Zoning Board of Appeals and Village Board on zoning and planning matters.

The Community Development and Review Committee (CDRC) is a sub-committee of the Village Planning Board and consists of the Assistant Village Attorney for the Planning Board, the Village Planner, and the Village Consulting Engineer to provide preliminary review prior to formal application to the Planning Board. All applicants applying for a Planning Board action must first attend CDRC.

Zoning Board of Appeals: The Village of Chestnut Ridge Zoning Board of Appeals consists of seven members and meets once a month, on the last Tuesday of the month. The Zoning Board considers appeals for variances from the zoning ordinance, appeals of decisions made by the Building Inspector, and requests for zoning interpretations.

Regulatory and Enforcement (Ordinances)

Subdivision: The Planning Board has the authority to review and approve, modify and approve or disapprove plats for subdivisions within the village. No land can be subdivided in the village until the subdivider or agent submits a sketch plat of the parcel to the village planning board and obtain approval of the sketch plat and preliminary and final approval of the plat itself by the planning board and until the approved plat is filed within the Rockland County Clerk.

Zoning: The Zoning Law implements the policies for use in the Village, which include:

- The Village's environmental resources are limited; the protection and enhancement of environmental, human and community resources must be fully respected.
- The impacts of growth must be controlled to maintain the rural, semirural and suburban character of the Village consistent with the ability of the Village to provide facilities and services.
- Commercial development must not be permitted to cause adverse impacts on the circulation facilities and on community appearance and should meet locally generated needs.

- Public facilities and services, including roads, drainage and recreation, must be planned and implemented consistent with the ability of the community to fund such facilities and the need to provide for an expanded population and not as a response to incremental and disjointed growth.
- Housing and employment opportunities should be broadened to the extent possible, by encouraging a wider variety of housing units and employment producing land uses.
- A greater role for the public must be encouraged, both at the community level for policy implementation and at the neighborhood level for land use implementation.

Site Development Plan Review, Article IX of Zoning Law: Prior to applying for a building permit, obtaining a certificate of occupancy or certificate of use, site development plan approval needs to be obtained from the Planning Board. The Planning Board will take into consideration the public health, safety and welfare, the impact of the environment, the comfort and convenience of the public in general and of prospective occupants of the proposed development and of the immediate neighborhood in particular and may prescribe such appropriate conditions and safeguards as may be required in order to further the expressed intent of the local law and accomplish the following objectives:

- Traffic access
- Circulation and parking
- Landscaping and screening
- Compatibility
- Environment
- Development
- Emergency Services

Erosion and Sediment Control Measures and Procedures, Local Law No. 6 of 2007: The purpose of this law is to establish minimum stormwater management requirements and controls to protect and safeguard the general health, safety and welfare of the public and to address the findings of fact set forth in Section 1 of the law. The objectives of this law are as follows:

- Meet the requirements of minimum measures 4 and 5 of the SPDES General Permit for Stormwater Discharges from Municipal Separate Stormwater Sewer Systems (MS-4s);
- Require land development activities to conform to the substantive requirements of the New York State Department of Environmental Conservation State Pollutant Discharge Elimination System (SPDES) General Permit for Construction Activities GP02-01;
- Minimize increases in stormwater runoff from land development activities in order to reduce flooding, siltation, increases in stream temperature and streambank erosion and maintain the integrity of stream channels;
- Minimize increases in pollution caused by stormwater runoff from land development activities which would otherwise degrade local water quality;
- Minimize the total annual volume of stormwater runoff which flows from any specific site during and following development to the maximum extent practicable; F. Reduce stormwater runoff rates and volumes, soil erosion and nonpoint source pollution wherever possible, through stormwater management practices and to ensure that these management practices are properly maintained and eliminate threats to public safety.

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.

The village has mapped and marked stormwater catch basins with help from Rockland AmeriCorps. Additionally, the village has enacted laws against illicit discharges into the stormwater system as well as flood prevention measures.

Illicit Discharge into Stormwater Sewer System, Local Law No. 1 of 2006: The purpose of this law is to provide for the health, safety, and general welfare of the citizens of the Village of Chestnut Ridge through the regulation of non-stormwater discharges to the municipal separate storm sewer system (MS4) to the maximum extent practicable as required by federal and New York State law. This law establishes methods for controlling the introduction of pollutants into the MS4 in order to comply with requirements of the SPDES General Permit for Municipal Separate Storm Sewer Systems. The Stormwater Management Officer administers, implements, and enforces the provisions of this law. The objectives of this law are:

- To meet the requirements of the SPDES General Permit for Stormwater Discharges from MS4s, Permit no. GP-02-02 or as amended or revised;
- To regulate the contribution of pollutants to the MS4 since such systems are not designed to accept, process or discharge non-stormwater wastes;
- To prohibit Illicit Connections, Activities and Discharges to the MS4;
- To establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this law; and
- To promote public awareness of the hazards involved in the improper storage and/or discharge of trash, yard waste, lawn chemicals, pet waste, wastewater, grease, oil, petroleum products, cleaning products, paint products, hazardous waste, sediment, snow and ice control materials, and other pollutants into the MS4.

Operational and Administration

Operating Budget: The Village operating budget contains provisions for street maintenance that includes street maintenance and road improvements.

Funding

The Village's Capital Improvements Budget includes budget for mitigation-related projects.

Education and Outreach

The following education and outreach are provided to the Village:

- The Village maintains a website that provides links to the various municipal departments, local laws and planning documents, Village newsletter, news updates, and links to local, county, state and federal governments.
- Municipal staff receive training and/or continuing professional education that supports natural hazard risk reduction in the village.
- The village distributes flyers and posts information on the municipal website regarding natural hazards in the community.
- Rockland 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.

9.3.6 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 9.3-11. Status of Previous Mitigation Actions

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.
Develop partnership with neighboring villages to coordinate efforts related to hazard mitigation.	Village Hall	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	
Provide backup power for all critical public facilities (sanitary sewer pump station and other critical public buildings).	Town of Ramapo Public Works	Complete	1. 100% complete 2. The item was completed. 3. Local budget	Discontinue	Backup generators installed in 2013 at both buildings.
Establish severe weather drills each semester in all village schools.	School District	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	
Undertake a preparedness campaign for severe weather events, including website and other activities.	Village Hall and Rockland County	In Progress	1. 10% complete 2. The website public info in progress. 3. Local budget	Include in 2018 HMP	1. Continue with website.
Enhance existing stormwater management program.	Village Board and Town of Ramapo	In Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	
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	Rockland County Planning Department reviews all Comprehensive Plans; would like to integrate into future comprehensive planning updates.	Include in 2018 HMP	Rockland County will work with municipalities to integrate hazard mitigation and hazard areas into local comprehensive plans; a courtesy review of draft plans by the County Planning Department
Expand and disseminate GIS and other hazard information on the internet.	CPG member; Village Trustee	In Progress	1. 0% complete 2. The item is being discussed. 3. Grant funding secured	Include in 2018 HMP	1. As a member of Stormwater Consortium of Rockland County, grant obtained to update GIS mapping.
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	CPG member; Village Trustee	Complete	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.	Discontinue	

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.
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.			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.		
Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.	CPG member; Village Trustee	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	
Continue to implement best management practices for floodplain areas.	CPG member; Village Trustee	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	
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% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	
Develop specific mitigation solutions for floodprone road systems (roads, bridges, intersections, drainage, etc.) under the leadership of County DPW.	CPG member; Village Trustee	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	
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% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	1. Work with Town of Ramapo and adjacent Villages.

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.
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	Rockland County has developed an access and functional-needs registry since 2010; facilities and residents can go on-line and notify of their existence. However, the Village does not have access to this system.	Include in 2018 HMP	Work with the County to obtain access to the registry
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	In Progress	Rockland 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).	Discontinue	This is a current capability of Rockland County Office of Fire and Emergency Service.
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	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	
Code enforcement: enforcement of NYS and local building codes	Each jurisdictional CPG member	In Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	

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.
Update/revise floodplain management ordinance to comply with latest FEMA regulations	Village Board	In Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	
Update/review floodplain management ordinances to be consistent with potential future new FIRMs	Village Board	In Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	
Require staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs)	Village Board	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	
Join the Community Rating System (CRS)	Village Board	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	

Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

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

- The Village purchased and installed backup generators at both village buildings in 2013
- In 2012, the culvert along South Pascack Road was washed out by flooding. The village applied for FEMA grant funding was awarded funding. A new concrete culvert was installed.

Proposed Hazard Mitigation Initiatives for the Plan Update

The Village of Chestnut Ridge participated in a mitigation action workshop in February 2017 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 9.3-12 summarizes the comprehensive-range of specific mitigation initiatives the Village of Chestnut Ridge 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 9.3-13 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.

Table 9.3-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
V. Chestnut Ridge-1 (old)	Develop partnership with neighboring villages to coordinate efforts related to hazard mitigation.	N/A	All	All	Village	High	Low	Municipal Budget	Ongoing	High	EAP, LPR	PR, PI
V. Chestnut Ridge-2 (old)	Establish severe weather drills each semester in all village schools.	N/A	All	All	School District	High	Medium	Municipal Budget	Ongoing	Medium	EAP, LPR	PR, PI
V. Chestnut Ridge-3 (old)	Undertake a preparedness campaign for severe weather events, including website.	N/A	All	All	Village with support from Rockland County	Medium	Medium	Municipal Budget	Ongoing	High	EAP, LPR	PR, PI
V. Chestnut Ridge-4 (old)	Enhance existing stormwater management program.	N/A	All	All	Village, Town of Ramapo, Stormwater Consortium of Rockland County	High	Medium	Municipal Budget	Ongoing	Medium	LPR	PR
V. Chestnut Ridge-5 (former 1.B)	Work with Rockland County to integrate hazard mitigation and hazard areas into the Village's comprehensive plans and the County Planning Department will provide a courtesy review of draft plans.	N/A	All	1, 2, 3, 5, 7	Village, Rockland County	Medium	Low	Municipal budget	DOF	Medium	LPR, EAP	PI, PR
V. Chestnut Ridge-6 (former 2.A)	Using grant funding from Stormwater Consortium of Rockland County, update GIS mapping for the Village.	N/A	All	All	Village, Rockland County	Medium	Medium	Grant funding	DOF	Medium	EAP	PI
V. Chestnut Ridge-7 (old)	Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.	N/A	All	1, 2, 3, 5, 7	Village	High	Low	Municipal Budget	Ongoing	High	EAP	PI
V. Chestnut Ridge-8 (former 4.F)	Continue to implement best management practices for floodplain areas.	N/A	Flood	1, 2, 5, 7	Village	High	Low	Municipal Budget	Ongoing	High	LPR, EAP	PR, PI

Table 9.3-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
V. Chestnut Ridge-9 (former 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.	Existing	Flood	1, 2, 3, 5, 7	Village	High	Low	Municipal Budget	Ongoing	High	LPR, EAP	PR, PI
V. Chestnut Ridge-10 (former 4.J)	Develop specific mitigation solutions for floodprone road systems (roads, bridges, intersections, drainage, etc.) under the leadership of County DPW.	New and Existing	Flood	1, 2, 5, 7	Village DPW, Rockland County	High	Low to Medium	Municipal budget, grant funding where available	Ongoing	Medium	LPR	PR
V. Chestnut Ridge-11 (former 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.	Existing	All	1, 2, 5, 7	Village	Medium	Low	Municipal budget	DOF	Medium	LPR	PR
V. Chestnut Ridge-12 (former 11.B)	Work with Rockland County to obtain access to the functional-needs registry that was developed in 2010.	N/A	All	1, 2, 5, 7	Rockland County, Village	Medium	Low	Municipal budget	DOF	Medium	LPR	PR
V. Chestnut Ridge-13 (old)	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;	N/A	All	1, 2, 3, 5, 7	Village	Medium	Low	Municipal budget	Ongoing	Medium	LPR	PR

Table 9.3-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	modify/amend the codes/ordinances as applicable.											
V. Chestnut Ridge-14 (old)	Code enforcement: enforcement of NYS and local building codes	New and Existing	All	1, 2, 3, 5, 7	Village	Medium	Low	Municipal budget	Ongoing	Medium	LPR	PR
V. Chestnut Ridge-15 (old)	Update/revise floodplain management ordinance to comply with latest FEMA regulations	N/A	Flood	1, 2, 3, 7	Village	Medium	Low	Municipal budget	Ongoing	Medium	LPR	PR
V. Chestnut Ridge-16 (old)	Update/review floodplain management ordinances to be consistent with potential future new FIRMs	N/A	Flood	1, 2, 3, 7	Village	Medium	Low	Municipal budget	Ongoing	Medium	LPR	PR
V. Chestnut Ridge-17 (old)	Require staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs)	N/A	Flood	1, 2, 3, 7	Village	Medium	Low	Municipal budget	DOF	Medium	EAP	PI
V. Chestnut Ridge-18 (old)	Support participation in the NFIP Community Rating System (CRS) program by attending CRS workshop(s) if offered within the county. Join the CRS program if adequate resources to support long term participation can be dedicated.	N/A	Flood	1, 2, 3, 7	NFIP FPA, as fully supported by local government officials	Medium - High	Low	Municipal Budget	Short Term	Medium	LPR, EAP	PR, PI

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

Potential FEMA HMA Funding Sources:

FMA Flood Mitigation Assistance Grant Program
 HMGP 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



NFIP National Flood Insurance Program
 OEM Office of Emergency Management

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 9.3-13. 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 Objectives	Total	High / Medium / Low
V. Chestnut Ridge-1 (old)	Develop partnership with neighboring villages to coordinate efforts related to hazard mitigation.	1	1	1	1	0	0	1	0	1	1	1	1	1	0	10	High
V. Chestnut Ridge-2 (old)	Establish severe weather drills each semester in all village schools.	1	1	1	1	0	0	1	0	1	1	1	0	0	0	8	Medium
V. Chestnut Ridge-3 (old)	Undertake a preparedness campaign for severe weather events, including website.	1	1	1	1	0	0	1	0	1	1	1	1	1	0	10	High
V. Chestnut Ridge-4 (old)	Enhance existing stormwater management program.	1	1	1	1	0	0	1	0	1	1	1	0	0	0	8	Medium
V. Chestnut Ridge-5 (former 1.B)	Work with Rockland County to integrate hazard mitigation and hazard areas into the Village’s comprehensive plans and the County Planning Department will provide a courtesy review of draft plans.	1	1	1	1	0	0	1	0	1	1	1	0	0	0	8	Medium
V. Chestnut Ridge-6 (former 2.A)	Using grant funding from Stormwater Consortium of Rockland County, update GIS mapping for the Village.	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	Medium
V. Chestnut Ridge-7 (old)	Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.	1	1	1	1	0	0	1	0	1	1	1	0	1	0	9	High
V. Chestnut Ridge-8 (former 4.F)	Continue to implement best management practices for floodplain areas.	1	1	1	1	0	0	1	0	1	1	1	0	1	0	9	High
V. Chestnut Ridge-9 (former 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,	1	1	1	1	0	0	1	0	1	1	1	0	1	0	9	High



Table 9.3-13. 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 Objectives	Total	High / Medium / Low
	relocation, elevation and floodproofing measures to protect these properties.																
V. Chestnut Ridge-10 (former 4.J)	Develop specific mitigation solutions for floodprone road systems (roads, bridges, intersections, drainage, etc.) under the leadership of County DPW.	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	Medium
V. Chestnut Ridge-11 (former 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.	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	Medium
V. Chestnut Ridge-12 (former 11.B)	Work with Rockland County to obtain access to the functional-needs registry that was developed in 2010.	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	Medium
V. Chestnut Ridge-13 (old)	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.	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	Medium
V. Chestnut Ridge-14 (old)	Code enforcement: enforcement of NYS and local building codes	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	Medium
V. Chestnut Ridge-15	Update/revise floodplain management ordinance to	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	Medium



Table 9.3-13. 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 Objectives	Total	High / Medium / Low
(old)	comply with latest FEMA regulations																
V. Chestnut Ridge-16 (old)	Update/review floodplain management ordinances to be consistent with potential future new FIRMs	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	Medium
V. Chestnut Ridge-17 (old)	Require staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs)	1	1	1	1	0	0	0	0	0	1	1	0	1	0	7	Medium
V. Chestnut Ridge-18 (old)	Support participation in the NFIP Community Rating System (CRS) program by attending CRS workshop(s) if offered within the county. Join the CRS program if adequate resources to support long term participation can be dedicated.	1	1	1	1	0	0	1	0	1	1	1	0	0	0	8	Medium

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

9.3.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

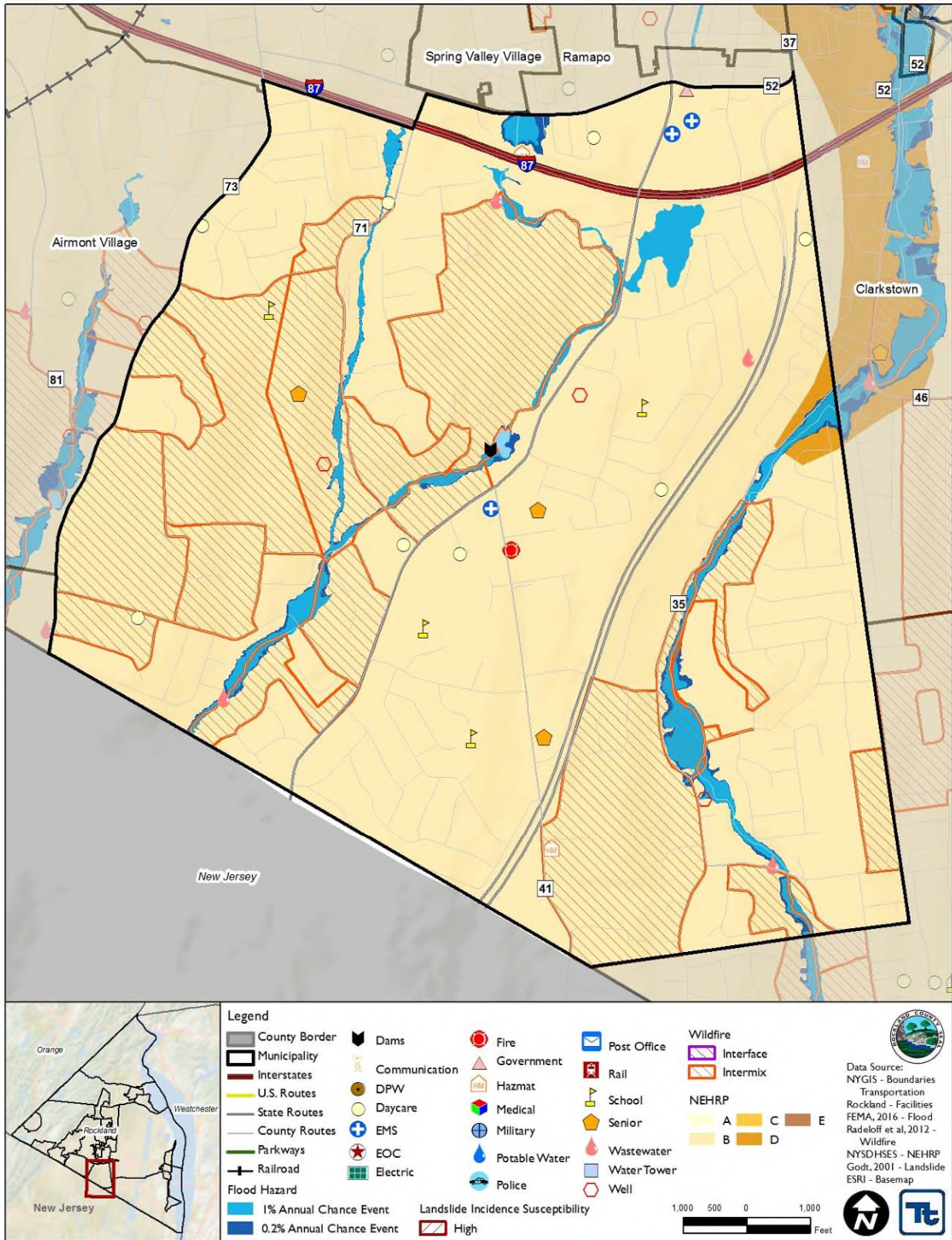
9.3.8 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Village of Chestnut Ridge 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 Chestnut Ridge has significant exposure. These maps are illustrated in the hazard profiles within Section 5.4, Volume I of this Plan.

9.3.9 Additional Comments

None at this time.

Figure 9.3-1. Village of Chestnut Ridge Hazard Area Extent and Location Map 1



Action Number:

V. Chestnut Ridge-1 (old)

Mitigation Action Name:

Develop partnership with neighboring villages to coordinate efforts related to hazard mitigation.

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	The village and neighboring municipalities would benefit from having a partnership when there is a need to coordinate efforts during hazard mitigation
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Do nothing - current problem continues 2. Develop partnership with neighboring villages to coordinate efforts related to hazard mitigation – selected action 3. Determine if County can coordinate regional hazard mitigation group – County may not have resources necessary
Action/Project Intended for Implementation	
Description of Selected Action/Project	Develop partnership with neighboring villages to coordinate efforts related to hazard mitigation.
Mitigation Action Type	EAP, LPR
Goals Met	All
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	High
Estimated Cost	Low
Priority*	High
Plan for Implementation	
Responsible Organization	Village
Local Planning Mechanism	Hazard Mitigation, Emergency Management
Potential Funding Sources	Municipal Budget
Timeline for Completion	Ongoing
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:
Mitigation Action Name:

V. Chestnut Ridge-1 (old)
 Develop partnership with neighboring villages to coordinate efforts related to hazard mitigation.

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	0	
Fiscal	1	Municipal budget
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	
Agency Champion	1	Work with surrounding communities
Other Community Objectives	0	
Total	10	
Priority (H/M/L)	High	

Action Number:

V. Chestnut Ridge-2 (old)

Mitigation Action Name:

Establish severe weather drills each semester in all village schools.

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	Village schools do not have severe weather drills.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Establish severe weather drills on an annual basis – lower frequency may result in lack of preparedness
Action/Project Intended for Implementation	
Description of Selected Action/Project	Establish severe weather drills each semester in all village schools.
Mitigation Action Type	EAP, LPR
Goals Met	All
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	High
Estimated Cost	Medium
Priority*	Medium
Plan for Implementation	
Responsible Organization	School District
Local Planning Mechanism	Hazard Mitigation, Emergency Management
Potential Funding Sources	Municipal Budget
Timeline for Completion	Ongoing
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Chestnut Ridge-2 (old)

Mitigation Action Name:

Establish severe weather drills each semester in all village schools.

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	0	
Fiscal	1	Municipal budget
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	0	Ongoing
Agency Champion	0	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number:

V. Chestnut Ridge-3 (old)

Mitigation Action Name:

Undertake a preparedness campaign for severe weather events, including website.

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	A website needs to be developed to inform the public on what to do before, during and after severe weather events
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	<ol style="list-style-type: none"> 1. Do nothing - current problem continues 2. Undertake a preparedness campaign for severe weather events, including website – selected action 3. Request local non-profits to undertake preparedness campaign – non-profits commitment may not be sustainable
Action/Project Intended for Implementation	
Description of Selected Action/Project	Undertake a preparedness campaign for severe weather events, including website.
Mitigation Action Type	EAP, LPR
Goals Met	All
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium
Estimated Cost	Medium
Priority*	High
Plan for Implementation	
Responsible Organization	Village with support from Rockland County
Local Planning Mechanism	Hazard Mitigation, Emergency Management
Potential Funding Sources	Municipal Budget
Timeline for Completion	Ongoing
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Chestnut Ridge-3 (old)

Mitigation Action Name:

Undertake a preparedness campaign for severe weather events, including website.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Provide a form of outreach to residents to protect them from severe weather events
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	1	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	1	Ongoing initiative
Agency Champion	1	
Other Community Objectives	0	
Total	10	
Priority (H/M/L)	High	

Action Number: V. Chestnut Ridge-4 (old)
Mitigation Action Name: Enhance existing stormwater management program.

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	The stormwater management program could be enhanced
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Request local non-profits to enhance stormwater actions – may not be sustainable long term
Action/Project Intended for Implementation	
Description of Selected Action/Project	Enhance existing stormwater management program.
Mitigation Action Type	LPR
Goals Met	All
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	High
Estimated Cost	Medium
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village, Town of Ramapo, Stormwater Consortium of Rockland County
Local Planning Mechanism	Hazard Mitigation, Stormwater Management
Potential Funding Sources	Municipal Budget
Timeline for Completion	Ongoing
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number: V. Chestnut Ridge-4 (old)
Mitigation Action Name: Enhance existing stormwater management program.

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	0	
Fiscal	1	Municipal budget
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	0	
Agency Champion	0	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number:

V. Chestnut Ridge-5 (former 1.B)

Mitigation Action Name:

Work with Rockland County to integrate hazard mitigation and hazard areas into the Village’s comprehensive plans

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	The Village's current comprehensive plan does not integrate hazard mitigation or hazard areas.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Place hazard mitigation actions into smaller planning documents – lack of connectivity to comprehensive plans
Action/Project Intended for Implementation	
Description of Selected Action/Project	Work with Rockland County to integrate hazard mitigation and hazard areas into the Village’s comprehensive plans and the County Planning Department will provide a courtesy review of draft plans.
Mitigation Action Type	LPR, EAP
Goals Met	1, 2, 3, 5, 7
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village, Rockland County
Local Planning Mechanism	Hazard Mitigation, Planning
Potential Funding Sources	Municipal budget
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Chestnut Ridge-5 (former 1.B)

Mitigation Action Name:

Work with Rockland County to integrate hazard mitigation and hazard areas into the Village's comprehensive plans

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	0	
Fiscal	1	Municipal budget
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	0	Depends on funding
Agency Champion	0	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number:

V. Chestnut Ridge-6 (former 2.A)

Mitigation Action Name:

Using grant funding from Stormwater Consortium of Rockland County, update GIS mapping for the Village.

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	Need to update GIS mapping for the village
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Inquire if regional colleges and universities can update GIS mapping – reliance on outside groups
Action/Project Intended for Implementation	
Description of Selected Action/Project	Using grant funding from Stormwater Consortium of Rockland County, update GIS mapping for the Village.
Mitigation Action Type	EAP
Goals Met	All
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium
Estimated Cost	Medium
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village, Rockland County
Local Planning Mechanism	Hazard Mitigation, Stormwater Management
Potential Funding Sources	Grant funding
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Chestnut Ridge-6 (former 2.A)

Mitigation Action Name:

Using grant funding from Stormwater Consortium of Rockland County, update GIS mapping for the Village.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Provide updated mapping to show areas that need to be protected
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Need grant funding to complete
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number: V. Chestnut Ridge-7 (old)
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:	Current zoning and planning issues need to incorporate natural hazards and hazard mitigation
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Ask local non-profits to hold workshops on natural hazards and hazard mitigation – reliance on outside groups which may not be able to commit to action
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	N/A
Benefits (losses avoided)	High
Estimated Cost	Low
Priority*	High
Plan for Implementation	
Responsible Organization	Village
Local Planning Mechanism	Hazard Mitigation, Code Enforcement, Floodplain Management
Potential Funding Sources	Municipal Budget
Timeline for Completion	Ongoing
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Chestnut Ridge-7 (old)

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	1	
Property Protection	1	Future construction will be protected to the most current standards in the Village
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	1	Municipal budget
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (H/M/L)	High	

Action Number:

V. Chestnut Ridge-8 (former 4.F)

Mitigation Action Name:

Continue to implement best management practices for floodplain areas.

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Best management practices need to stay up-to-date in order to ensure properties are protected in the floodplain areas
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Lower standards – protections reduced
Action/Project Intended for Implementation	
Description of Selected Action/Project	Continue to implement best management practices for floodplain areas.
Mitigation Action Type	LPR, EAP
Goals Met	1, 2, 5, 7
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	High
Estimated Cost	Low
Priority*	High
Plan for Implementation	
Responsible Organization	Village
Local Planning Mechanism	Hazard Mitigation, Floodplain Management
Potential Funding Sources	Municipal Budget
Timeline for Completion	Ongoing
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:
Mitigation Action Name:

V. Chestnut Ridge-8 (former 4.F)
 Continue to implement best management practices for floodplain areas.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protect residents who live in and around floodplains
Property Protection	1	Protect buildings in floodplains or prevent development in floodplains
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	1	Municipal budget
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (H/M/L)	High	

Action Number:

V. Chestnut Ridge-9 (former 4.G)

Mitigation Action Name:

Identify and document repetitively flooded properties.

Assessing the Risk	
Hazard(s) addressed:	Flood
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):	Do nothing - current problem continues Carry out acquisition, relocation, elevation and floodproofing measures to protect all properties in floodplain – not cost effective
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	LPR, EAP
Goals Met	1, 2, 3, 5, 7
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	Low
Priority*	High
Plan for Implementation	
Responsible Organization	Village
Local Planning Mechanism	Hazard Mitigation, Floodplain Management, Emergency Management
Potential Funding Sources	Municipal Budget
Timeline for Completion	Ongoing
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Chestnut Ridge-9 (former 4.G)

Mitigation Action Name:

Identify and document repetitively flooded properties.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Assist homeowners with mitigating their properties; provide protection in a flood event
Property Protection	1	Assist homeowners with mitigating their properties; provide protection in a flood event
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	1	Municipal budget
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood, Severe Storm
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (H/M/L)	High	

Action Number:

V. Chestnut Ridge-10 (former 4.J)

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:	Flood
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):	Do nothing - current problem continues Move floodprone road systems – not feasible/extremely expensive
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	LPR
Goals Met	1, 2, 5, 7
Applies to existing and or new development, or not applicable	New and Existing
Benefits (losses avoided)	High
Estimated Cost	Low to Medium
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village DPW, Rockland County
Local Planning Mechanism	Hazard Mitigation, Capital Improvement
Potential Funding Sources	Municipal budget, grant funding where available
Timeline for Completion	Ongoing
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Chestnut Ridge-10 (former 4.J)

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	Many road systems are floodprone; this would help alleviate flooding during periods of heavy rain
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Municipal budget to develop solutions but grant funding to do the work
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number: V. Chestnut Ridge-11 (former 13.A)
Mitigation Action Name: Determine the year built and level of protection for critical emergency facilities and shelters

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	Some facilities were built before code updates; therefore, they may 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):	Do nothing - current problem continues Rebuild critical facilities and shelters – not feasible
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	LPR
Goals Met	1, 2, 5, 7
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village
Local Planning Mechanism	
Potential Funding Sources	Municipal budget
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:
Mitigation Action Name:

V. Chestnut Ridge-11 (former 13.A)
 Determine the year built and level of protection for critical emergency facilities and shelters

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	0	
Fiscal	0	
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number:

V. Chestnut Ridge-12 (former 11.B)

Mitigation Action Name:

Work with Rockland County to obtain access to the functional-needs registry that was developed in 2010.

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	The current emergency response plan does not include the functional-needs registry
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Develop new municipal specific functional-needs registry – not cost effective
Action/Project Intended for Implementation	
Description of Selected Action/Project	Work with Rockland County to obtain access to the functional-needs registry that was developed in 2010.
Mitigation Action Type	LPR
Goals Met	1, 2, 5, 7
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	Rockland County, Village
Local Planning Mechanism	Hazard Mitigation, Emergency Management
Potential Funding Sources	Municipal budget
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:
Mitigation Action Name:

V. Chestnut Ridge-12 (former 11.B)
 Work with Rockland County to obtain access to the functional-needs registry that was developed in 2010.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Identify where residents with limited mobility or special needs are located in the Village
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Municipal Budget
Environmental	0	
Social	1	
Administrative	1	Working with Rockland County
Multi-Hazard	1	All hazards
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number:

V. Chestnut Ridge-13 (old)

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:	Some facilities were built before code updates; therefore, they may 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):	Do nothing - current problem continues Develop new ordinances to address hazards - redundant
Action/Project Intended for Implementation	
Description of Selected Action/Project	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.
Mitigation Action Type	LPR
Goals Met	1, 2, 3, 5, 7
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village
Local Planning Mechanism	Hazard Mitigation, Floodplain Management, Code Enforcement
Potential Funding Sources	Municipal budget
Timeline for Completion	Ongoing
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:
Mitigation Action Name:

V. Chestnut Ridge-13 (old)
 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	1	
Property Protection	1	Provide flood protection of buildings
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Municipal Budget
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number:

V. Chestnut Ridge-14 (old)

Mitigation Action Name:

Code enforcement: enforcement of NYS and local building codes

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	Some facilities were built before code updates; therefore, they may 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):	Do nothing - current problem continues Develop new building code – not cost effective, harder to enforce
Action/Project Intended for Implementation	
Description of Selected Action/Project	Code enforcement: enforcement of NYS and local building codes
Mitigation Action Type	LPR
Goals Met	1, 2, 3, 5, 7
Applies to existing and or new development, or not applicable	New and Existing
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village
Local Planning Mechanism	Hazard Mitigation, Floodplain Management, Code Enforcement
Potential Funding Sources	Municipal budget
Timeline for Completion	Ongoing
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number: V. Chestnut Ridge-14 (old)
Mitigation Action Name: Code enforcement: enforcement of NYS and local building codes

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

Action Number:

V. Chestnut Ridge-15 (old)

Mitigation Action Name:

Update/revise floodplain management ordinance to comply with latest FEMA regulations

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Some facilities were built before code updates; therefore, they may 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):	Do nothing - current problem continues Develop other floodplain management ordinance – may not comply with FEMA standards
Action/Project Intended for Implementation	
Description of Selected Action/Project	Update/revise floodplain management ordinance to comply with latest FEMA regulations
Mitigation Action Type	LPR
Goals Met	1, 2, 3, 7
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village
Local Planning Mechanism	Hazard Mitigation, Floodplain Management, Code Enforcement
Potential Funding Sources	Municipal budget
Timeline for Completion	Ongoing
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:
Mitigation Action Name:

V. Chestnut Ridge-15 (old)
 Update/revise floodplain management ordinance to comply with latest FEMA regulations

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

Action Number:

V. Chestnut Ridge-16 (old)

Mitigation Action Name:

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

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Some facilities were built before code updates; therefore, they may 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):	Do nothing - current problem continues Develop new FIRMs at same time as floodplain management ordinance - costly
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	N/A
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village
Local Planning Mechanism	Hazard Mitigation, Floodplain Management, Code Enforcement
Potential Funding Sources	Municipal budget
Timeline for Completion	Ongoing
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:
Mitigation Action Name:

V. Chestnut Ridge-16 (old)
 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	Provide flood protection of buildings
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Municipal Budget
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number:

V. Chestnut Ridge-17 (old)

Mitigation Action Name:

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

Assessing the Risk	
Hazard(s) addressed:	Flood
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):	Do nothing - current problem continues Have staff undergo other floodplain training programs – not nationally recognized certification program. CFM worth points in CRS program.
Action/Project Intended for Implementation	
Description of Selected Action/Project	Require 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	N/A
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village
Local Planning Mechanism	
Potential Funding Sources	Municipal budget
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Chestnut Ridge-17 (old)

Mitigation Action Name:

Require 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	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	0	
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	7	
Priority (H/M/L)	Medium	

Action Number: V. Chestnut Ridge-18 (old)
Mitigation Action Name: Support participation in the NFIP Community Rating System (CRS) program by attending CRS workshop(s)

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	The Village is not currently in the CRS program. The Village needs to identify whether or not joining the program will be beneficial to the community and its residents.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Have official attend CRS courses in Emmitsburg, Maryland - costly
Action/Project Intended for Implementation	
Description of Selected Action/Project	Support participation in the NFIP Community Rating System (CRS) program by attending CRS workshop(s) if offered within the county. Join the CRS program if adequate resources to support long term participation can be dedicated. See following related Community Assistance Visit (CAV) initiative.
Mitigation Action Type	LPR, EAP
Goals Met	1, 2, 3, 7
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium - High
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	NFIP FPA, as fully supported by local government officials
Local Planning Mechanism	Hazard Mitigation, Floodplain Management
Potential Funding Sources	Municipal Budget
Timeline for Completion	Short Term
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Chestnut Ridge-18 (old)

Mitigation Action Name:

Support participation in the NFIP Community Rating System (CRS) program by attending CRS workshop(s)

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	0	
Fiscal	1	Municipal Budget
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood
Timeline	0	
Agency Champion	0	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	