

9.18 VILLAGE OF SLOATSBURG

This section presents the jurisdictional annex for the Village of Sloatsburg.

9.18.1 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
Carl Wright, Mayor 96 Orange Turnpike, Sloatsburg, NY 10974 845-753-2727 carlswright@sloatsburgny.com	John Bonkoski, Trustee 96 Orange Turnpike, Sloatsburg, NY 10974 845-753-2727 johnbonkoski@sloatsburgny.com
NFIP Floodplain Administrator (FPA)	
Martin Spence, Village Engineer 201-934-0300 mkspace@spenceengineer.com	

9.18.2 Municipal Profile

The Village of Sloatsburg was incorporated in 1929 and is located along the western border of the Town of Ramapo in Rockland County. It is bordered to the north, south and east by the Town of Ramapo and to the west by Orange County and New Jersey. The village is approximately 2.5 square miles in size and is primarily residential, consisting almost exclusively of single-family detached homes. According to the 2010 Census, the village’s population was 3,039.

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

Table 9.18-1. 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					
Tuxedo Reserve	Res	20	Orange Turnpike	Location Undetermined.	Under preliminary construction
Known or Anticipated Development in the Next Five (5) Years					
Firehouse	Municipal	1	Orange Turnpike	Location Undetermined.	Anticipated for the spring of 2017
Oak Brook Mixed use	Res & Comm	27 + 2	Orange Turnpike	Location Undetermined.	Anticipated for 2018

* Only location-specific hazard zones or vulnerabilities identified.

9.18.3 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 9.18-2. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	Rockland County Designated?	Summary of Damages/Losses
June 23, 2011	Flash Flood	N/A	
August 25 – September 5, 2011	Hurricane Irene DR-4020	Yes	Irene caused flooding along Seven Lakes Drive, Eagle Valley Road, Waldron Terrace, Sterling Avenue, Scott Street, Colonial Avenue, as well as the community park, playground, pool, and railroad tracks. The bridge at Seven Lakes Drive was washed away and access to several properties was eliminated due to overflowing the roadways. This road was closed for months until bridge repair was completed. Many properties along the Ramapo River tributaries at south side of the Village needed to be evacuated. The municipal building was also damaged and needed electrical work performed.

Notes:

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

9.18.4 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 Sloatsburg. 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 Sloatsburg.

Table 9.18-3. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Drought	Damage estimate not available	Frequent	39	High
Earthquake	100-Year GBS: \$0 500-Year GBS: \$416,255 2,500-Year GBS: \$6,844,837	Occasional	32	High
Extreme Temperature	Damage estimate not available	Frequent	18	Medium
Flood	1% Annual Chance: \$32,844,000	Frequent	36	High
Landslide	RCV Exposed: \$0	Rare	6	Low
Severe Storm	100-Year MRP: \$213,162 500-year MRP: \$423,952	Frequent	48	High

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
	Annualized: \$8,678			
Winter Storm	1% GBS: \$3,551,850 5% GBS: \$17,759,250	Frequent	51	High
Wildfire	Estimated Value in the WUI: \$556,209,000	Frequent	54	High

Notes:

- a. Building damage ratio estimates based on FEMA 386-2 (August 2001)
- b. The valuation of general building stock and loss estimates was based on custom inventory for the municipality.
High = Total hazard priority risk ranking score of 31 and above
Medium = Total hazard priority risk ranking of 20-30+
Low = Total hazard risk ranking below 20
- c. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the value of contents.
- d. Loss estimates for the flood and earthquake hazards represent both structure and contents.
- e. The HAZUS-MH earthquake model results are reported by Census Tract

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Sloatsburg.

Table 9.18-4. 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)
Sloatsburg, Village of	41	50	\$505,680	2	1	8

Source: FEMA Region 2, 2016

- (1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA Region 2, and are current as of 06/30/2016. The total number of repetitive loss properties does not include the severe repetitive loss properties. The number of claims represents claims closed by 06/30/16.
- (2) Total building and content losses from the claims file provided by FEMA Region 2.
- (3) The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file.

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

Critical Facilities

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

Table 9.18-5. 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
NYS Thruway - Sloatsburg/Ramapo Service Area	WWTP	X	X	-	-
Pine Grove Pond	Water Tower	X	X	-	-

Name	Type	Exposure		Potential Loss from 1% Flood Event	
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage
Sloatsburg Wastewater Treatment Plant	WWTP	X	X	-	-

Source: Hazus-MH 3.2, Rockland County

Other Vulnerabilities Identified

The municipality has identified the following vulnerabilities within their community:

- Streets along Ramapo River such as: Seven Lakes Drive, Waldron Terrace, Eagle Valley Road, Washington Avenue as well as the roads near tributaries including: Sterling Avenue, Scott Street, Colonial Avenue are prone to flooding.
- Community Park and pool are flood prone as well.
- Railroad tracks
- Dam further North in Tuxedo is an added factor. Back in summer of 2011, dam failure reinforced the already hazardous flooding.
- According to the 2014 Flood Insurance Study (FIS) for Rockland County, flooding in the Village is caused by Stony Brook, Ramapo River, or Nakoma Brook. Stony Brook causes flooding in the vicinity of the Waldron Terrace Bridge, with the areas downstream being flooded by either Stony Brook or the Ramapo River. Eagle Valley Road experiences flooding Nakoma Brook (FEMA FIS 2014).

9.18.5 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 Sloatsburg.

Table 9.18-6. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan	Yes 2007	Local	Village	Village of Sloatsburg Comprehensive Plan
Capital Improvements Plan	Yes 06/2007	Local	Village Board	
Floodplain Management / Basin Plan	Yes	County		
Stormwater Management Plan	Yes	Local	Village	

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.)
			Engineer	
Open Space Plan	No			
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	Yes 2008	Local	Village Board	
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 2007	Local	Zoning Board of Appeals	Chapter 54 – Zoning of the Code of the Village of Sloatsburg
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	Local	Planning Board	
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	Historical Society	

Administrative and Technical Capability

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



Table 9.18-7. 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	Village Engineer
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 Sloatsburg.

Table 9.18-8. 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 Sloatsburg.

Table 9.18-9. 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	-	-

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

Table 9.18-10. 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)

Martin K. Spence, Village Engineer

Flood Vulnerability Summary

The Village does not maintain lists or inventories of properties damaged by floods. During Irene, approximately six structures (municipal, residential and infrastructure) were damaged; however, substantial damage estimates were not made by the FPA. Currently, there is no interest in mitigation (acquisition or elevation) in the community. If there was interest, FEMA grant funding would be used as funding sources for the mitigation projects.

Resources

The FPA is the sole person assuming the role and responsibilities of floodplain administration for the Village. However, the engineer’s office staff is available to assist if needed. The FPA performs all application reviews, issues permits/denials, and performs site inspections if required. Through the Stormwater Consortium of Rockland County, the Village provides a community outreach program that includes educational flyers, radio programs, etc. The FPA indicated that there are currently no barriers to running an effective floodplain management program in the Village. The FPA also stated that they feel adequately supported and trained to

fulfill their role as the municipal floodplain administrator; however, would consider additional continuing education and/or certification training on floodplain management if it were offered.

Compliance History

The Village is currently in good standing with the NFIP.

Regulatory

The Village's flood damage prevention ordinance meets the minimum set by FEMA and New York State. There are additional ordinances, plans and programs in place that support floodplain management in the Village.

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

Comprehensive Plan (June 2007): The Comprehensive Plan is based on a set of goals and objectives that will enable the Village to achieve its desired land use pattern and maintain its unique sense of community. The categories the goals and objectives fall under include: land use, economic development, natural resources, transportation, utilities, community facilities, historic resources, and aesthetic resources. The Plan includes areas of natural hazard risk to the Village and includes the following: redevelopment plan, growth plan, economic development plan, open space plan, watershed management plan, and local waterfront revitalization plan.

Regulatory and Enforcement

Illicit Discharges (Local Law No. 1 of 2009): The purpose of this law is to provide for the health, safety, and general welfare of the citizens of the Village of **Sloatsburg** 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 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

Planning Board: Sloatsburg Planning Board consists of 7 members with two alternate members. The Board is supported by the Village Attorney and the Village Engineer. The current Chairman of the Planning Board is Mr. Glenn Thompson. Applications to the Board are available at the Village Clerk's Office.

Zoning Board of Appeals: The Sloatsburg Zoning Board of Appeals consists of 5 members with one alternate member. The Board is supported by the Village Attorney and the Village Engineer. The current Chairman of the Zoning Board is Mr. Michael Dolan.

Municipal staff receives training and continuing education courses which supports natural hazard risk reduction.

Funding

Operating Budget: The Village's capital improvements budget includes budget for mitigation-related projects.

Grants: After Hurricane Irene, the Village was awarded grant funds to restore a bridge that was substantially damaged during the event.

Education and Outreach

The Village uses their municipal website, flyers, etc. to inform citizens on natural hazards within the municipality.

Rockland County provides the following services to its municipalities:

- County provides Towns and Villages palm-cards on winter storms; information regarding flooding; hurricane; high-winds, tornadoes via email and social media (Twitter and Facebook).
- Emergency Notification Systems: Rockland County has mapping services available to municipalities through their on-line web map portal. Disaster Land is a web-based emergency management software system; municipalities are granted access to it; flood inundation zones are incorporated into it so Emergency Coordinator from the municipality has access to it 24/7 on smart phone/laptop/desktop. The County utilizes NY-Alert and CodeRed (the backup to NY-Alert) for emergency notifications (all Towns and Villages have access to it). There is a mailbox for known inundation areas to target outreach as needed; and have license for FEMA's IPAWS to issue notifications.

9.18.6 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 9.18-11. 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.
Replace bridge which is in severe state of disrepair.	Village Board	Complete	1. 100% complete 2. No obstacles. 3. FEMA grant secured.	Discontinue	1. Completed.
Bank stabilization and flooding mitigation of adjacent private properties.	Village Board	In Progress	1. 0% complete 2. No obstacles. 3. FEMA grant secured.	Include in 2018 HMP	1. Continue.
Control flooding along Hamilton Avenue which has no drainage presently.	Village Board	In Progress	1. 0% complete 2. No obstacles. 3. FEMA grant secured.	Include in 2018 HMP	1. Continue.
Flows from Liberty Rock Road - lack of drainage at library causes water to run beneath structure.	Village Board	In Progress	1. 0% complete 2. No obstacles. 3. FEMA grant secured.	Include in 2018 HMP	1. Continue.
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	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	
Expand and disseminate GIS and other hazard information on the internet.	CPG member; Village Trustee	Complete	Rockland County has expanded its GIS services; flood inundation zones are on the map web portal and the Village has access to the portal and this data. The County anticipates continual updates of data being collected and accessed by the municipalities (e.g. dam inundation areas).	Discontinue	
Work with local municipalities to pursue the development of an Emergency Notification System call perimeter for high risk locations of natural hazards with delineable hazard areas. Rockland County staff will make aerial mapping available, along with GIS mapping for natural hazards that was completed as part of the hazard mitigation planning project. The County will also facilitate the utilization of the	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. 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	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.
Emergency Notification System by municipalities.			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 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	In Progress	1. 100% complete 2. No obstacles. 3. FEMA grant secured.	Include in 2018 HMP	1. Bridge along Seven Lakes Drive has been reconstructed in recent years.
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.
Review existing emergency response plans for enhancement opportunities: work with social support agencies, homeowners associations and general public to develop and	CPG member; Village Trustee	In 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. The Village of Montebello does not have access to the registry.	Include in 2018 HMP	Work with Rockland County to obtain access to the functional-needs registry

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.
implement monitoring and warning systems focused on vulnerable populations and provision of adequate shelter facilities.					
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 form each jurisdiction's CPG member	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured 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).	Include in 2018 HMP	
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	
Update/revise floodplain management ordinance to comply with latest FEMA regulations	Village Engineer and Attorney	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.
Designate/install a specific person to be the Village Floodplain Administrator	Village Board	Complete	1. 100% complete 2. No obstacles. 3. Floodplain administrator has been appointed.	Discontinue	1. Village Engineer has been appointed as a Floodplain Administrator.
Add/train sufficient members of staff to adequately enforce NFIP regulations/floodplain management ordinances	Village Board	No 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 Engineer, Planner, Attorney	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 Sloatsburg 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:

- None identified

Proposed Hazard Mitigation Initiatives for the Plan Update

The Village of Sloatsburg 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 9.18-12 summarizes the comprehensive-range of specific mitigation initiatives the Village of Sloatsburg 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 9.18-13 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.

Table 9.18-12. 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. Sloatsburg-1 (old)	Bank stabilization and flooding mitigation of adjacent private properties.	N/A	Flood	1, 2	Village Board	High	Medium to High	FEMA grant secured	Short Term	High	SIP	PP, NR
V. Sloatsburg-2 (old)	Control flooding along Hamilton Avenue which has no drainage presently.	Existing	Flood	1, 2	Village Board	High	Medium to High	FEMA grant secured	Short Term	High	SIP	PP
V. Sloatsburg-3 (old)	Flows from Liberty Rock Road - lack of drainage at library causes water to run beneath structure.	Existing	Severe Storm, Flood	1, 2	Village Board	High	Medium to High	FEMA grant secured	Short Term	High	SIP	PP
V. Sloatsburg-4 (former 1.B)	Ensure that local comprehensive plans incorporate natural disaster mitigation techniques through a courtesy review or draft plans by the County Planning Department.	N/A	All	1, 2, 5, 7	Village, Rockland County Planning	Medium	Low	Municipal Budget	DOF	Medium	LPR	PR
V. Sloatsburg-5 (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	DOF	High	EAP	PI
V. Sloatsburg-6 (former 4.F)	Continue to implement best management practices for floodplain areas.	N/A	Flood	1, 2, 5, 7	Village	High	Low	Municipal Budget	DOF	High	LPR, EAP	PR, PI
V. Sloatsburg-7 (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	DOF	High	LPR, EAP	PR, PI
V. Sloatsburg-8 (former 4.J)	Develop specific mitigation solutions for floodprone road systems (roads, bridges, intersections, drainage, etc.)	New and Existing	Flood	1, 2, 5, 7	Village DPW, Rockland County	High	Low to Medium	Municipal budget, grant funding	DOF	Medium	LPR	PR

Table 9.18-12. 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
	under the leadership of County DPW.							where available				
V. Sloatsburg-9 (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. Sloatsburg-10 (former 11.B)	Work with Rockland County to obtain access to the functional-needs registry to use as part of the Village’s emergency response plan.	N/A	All	1, 2, 5, 7	Rockland County, Village	Medium	Low	Municipal budget	DOF	Medium	LPR	PR
V. Sloatsburg-11 (old)	Develop and enhance the public awareness program on hazards, prevention and mitigation. Continue to work with Rockland County on their program that provides information to the municipalities.	N/A	All	1, 2, 3, 5, 7	Village, Rockland County	Medium	Low	Municipal budget	DOF	Medium	LPR, EAP	PI, PR
V. Sloatsburg-12 (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.	N/A	All	1, 2, 3, 5, 7	Village	Medium	Low	Municipal budget	DOF	Medium	LPR	PR
V. Sloatsburg-13 (old)	Code enforcement: enforcement of NYS and local building codes	New and Existing	All	1, 2, 3, 5, 7	Village	Medium	Low	Municipal budget	DOF	Medium	LPR	PR
V.	Update/revise floodplain	N/A	Flood	1, 2, 3, 7	Village	Medium	Low	Municipal	DOF	Medium	LPR	PR



Table 9.18-12. 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
Sloatsburg-14 (old)	management ordinance to comply with latest FEMA regulations							budget				
V. Sloatsburg-15 (old)	Add/train sufficient members of staff to adequately enforce NFIP regulations/floodplain management ordinances	N/A	Flood	1, 2, 3, 7	Village	Medium	Low	Municipal budget	DOF	Medium	EAP	PI
V. Sloatsburg-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	DOF	Medium	LPR	PR
V. Sloatsburg-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. Sloatsburg-18 (old)	Consider joining the Community Rating System (CRS)	N/A	Flood	1, 2, 3, 7	Village	High	Low to Medium	Municipal budget, grant funding where available	DOF	Medium	LPR	PR
V. Sloatsburg-19	The following critical facilities were identified as vulnerable to the flood hazard during the Rockland County HMP update. The Village does not have jurisdiction over these facilities to mitigate. The Village will notify the facility manager/operator to evaluate advise of potential mitigation alternatives to consider, potential funding sources for implementation and that NYS requires that any mitigation addresses the 500-year flood event or “worst damage scenario”. The following	Existing	Flood	1, 2, 4, 6	Property Owners with Village Support	High	Low	Municipal budget	Short	Medium	SIP	PP

Table 9.18-12. 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
	may be potential actions to reduce future flood losses; however, the owners will need to determine the most feasible and cost-effective action: elevate mechanicals; floodproof entry ways; relocate facility. - Pine Grove Pond water tower - NYS Thruway - Sloatsburg/Ramapo Service Area											
V. Sloatsburg-20	Sloatsburg Wastewater Treatment Plant – raise utilities and other mechanical devices above the BFE. Assure that any mitigation addresses the 500-year flood event or “worst damage scenario”.	Existing	Flood	1, 2, 4, 6	Village Board	High	Low	Municipal budget and grant funding where available	Short	Medium	SIP	PP

Notes:

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

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

Acronyms and Abbreviations:

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

Potential FEMA HMA Funding Sources:

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

Timeline:

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

Costs:

Where actual project costs have been reasonably estimated:

Low < \$10,000

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:



Costs:

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 reappropriation 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:

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 9.18-13. 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. Sloatsburg-1 (old)	Bank stabilization and flooding mitigation of adjacent private properties.	1	1	1	1	0	0	1	1	1	1	1	1	0	0	10	High
V. Sloatsburg-2 (old)	Control flooding along Hamilton Avenue which has no drainage presently.	1	1	1	1	0	0	1	1	1	1	1	1	0	0	10	High
V. Sloatsburg-3 (old)	Flows from Liberty Rock Road - lack of drainage at library causes water to run beneath structure.	1	1	1	1	0	0	1	1	1	1	1	1	0	0	10	High
V. Sloatsburg-4 (former 1.B)	Ensure that local comprehensive plans incorporate natural disaster mitigation techniques through a courtesy review or draft plans by the County Planning Department.	1	1	1	1	0	0	1	0	0	1	1	0	0	0	7	Medium
V. Sloatsburg-5 (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. Sloatsburg-6 (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. Sloatsburg-7 (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.	1	1	1	1	0	0	1	0	1	1	1	0	1	0	9	High
V. Sloatsburg-8 (former	Develop specific mitigation solutions for floodprone road systems (roads, bridges,	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	Medium



Table 9.18-13. 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
4.J)	intersections, drainage, etc.) under the leadership of County DPW.																
V. Sloatsburg-9 (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. Sloatsburg-10 (former 11.B)	Work with Rockland County to obtain access to the functional-needs registry to use as part of the Village's emergency response plan.	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	Medium
V. Sloatsburg-11 (old)	Develop and enhance the public awareness program on hazards, prevention and mitigation. Continue to work with Rockland County on their program that provides information to the municipalities.	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	Medium
V. Sloatsburg-12 (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. Sloatsburg-	Code enforcement: enforcement of NYS and	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	Medium

Table 9.18-13. 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
13 (old)	local building codes																
V. Sloatsburg-14 (old)	Update/revise floodplain management ordinance to comply with latest FEMA regulations	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	Medium
V. Sloatsburg-15 (old)	Add/train sufficient members of staff to adequately enforce NFIP regulations/floodplain management ordinances	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	Medium
V. Sloatsburg-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. Sloatsburg-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. Sloatsburg-18 (old)	Consider joining the Community Rating System (CRS)	1	1	1	1	0	0	1	0	1	1	1	0	0	0	8	Medium
V. Sloatsburg-19	The following critical facilities were identified as vulnerable to the flood hazard during the Rockland County HMP update. The Village does not have jurisdiction over these facilities to mitigate. The Village will notify the facility manager/operator to evaluate advise of potential mitigation alternatives to consider, potential funding sources for implementation and that NYS requires that any mitigation addresses the 500-year flood event or “worst damage	1	1	1	1	0	1	0	0	0	1	0	0	0	0	6	Medium

Table 9.18-13. 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
	scenario”. The following may be potential actions to reduce future flood losses; however, the owners will need to determine the most feasible and cost-effective action: elevate mechanicals; floodproof entry ways; relocate facility. - Pine Grove Pond water tower - NYS Thruway Sloatsburg/Ramapo Service Area																
V. Sloatsburg-20	Sloatsburg Wastewater Treatment Plant – raise utilities and other mechanical devices above the BFE. Assure that any mitigation addresses the 500-year flood event or “worst damage scenario”.	1	1	1	1	0	1	0	0	0	1	0	0	0	0	6	Medium

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

9.18.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

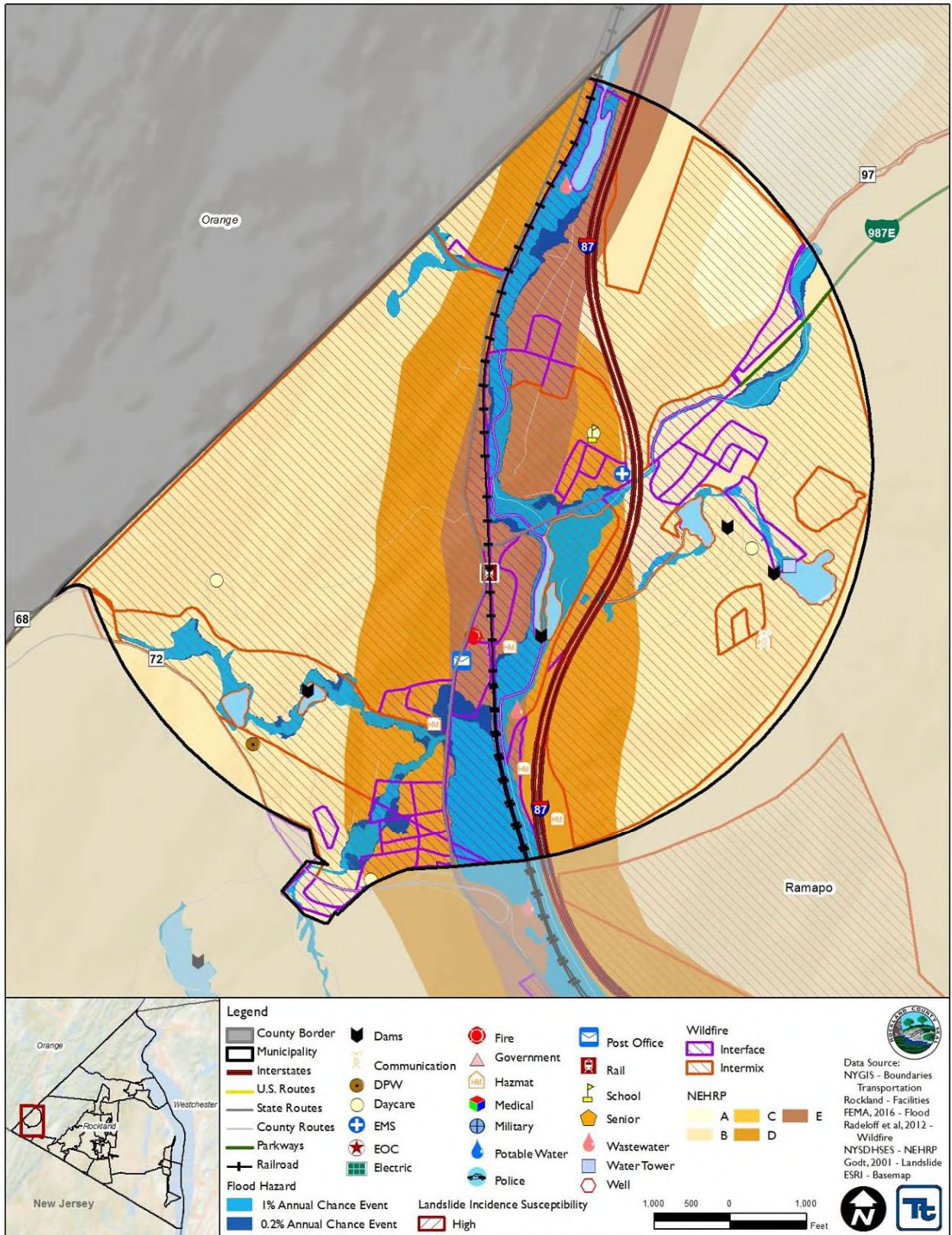
9.18.8 Hazard Area Extent and Location

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

9.18.9 Additional Comments

None at this time.

Figure 9.18-1. Village of Slootsburg Hazard Area Extent and Location Map



Action Number:

V. Sloatsburg-1 (old)

Mitigation Action Name:

Bank stabilization and flooding mitigation of adjacent private properties.

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Properties are subject to flooding and damages
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Buyout floodprone properties - cost
Action/Project Intended for Implementation	
Description of Selected Action/Project	Bank stabilization and flooding mitigation of adjacent private properties.
Mitigation Action Type	SIP
Goals Met	1, 2
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	High
Estimated Cost	Medium to High
Priority*	High
Plan for Implementation	
Responsible Organization	Village Board
Local Planning Mechanism	Hazard Mitigation, Stormwater
Potential Funding Sources	FEMA grant secured
Timeline for Completion	Short Term
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Sloatsburg-1 (old)

Mitigation Action Name:

Bank stabilization and flooding mitigation of adjacent private properties.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Reduce flooding impacts to surrounding residents
Property Protection	1	Reduce flooding impacts of structures in the area
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	1	Received grant funding
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Storm, Flood
Timeline	1	
Agency Champion	0	
Other Community Objectives	0	
Total	10	
Priority (H/M/L)	High	

Action Number: V. Sloatsburg-2 (old)
Mitigation Action Name: Control flooding along Hamilton Avenue which has no drainage presently.

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	No drainage along Hamilton Avenue
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Raise Hamilton Avenue – cost, not feasible
Action/Project Intended for Implementation	
Description of Selected Action/Project	Control flooding along Hamilton Avenue which has no drainage presently.
Mitigation Action Type	SIP
Goals Met	1, 2
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	Medium to High
Priority*	High
Plan for Implementation	
Responsible Organization	Village Board
Local Planning Mechanism	Hazard Mitigation, Stormwater
Potential Funding Sources	FEMA grant secured
Timeline for Completion	Short Term
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Sloatsburg-2 (old)

Mitigation Action Name:

Control flooding along Hamilton Avenue which has no drainage presently.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Reduce flooding impacts to surrounding residents
Property Protection	1	Reduce flooding impacts of structures in the area
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	1	Received grant funding
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Storm, Flood
Timeline	1	
Agency Champion	0	
Other Community Objectives	0	
Total	10	
Priority (H/M/L)	High	

Action Number: V. Sloatsburg-3 (old)
Mitigation Action Name: Flows from Liberty Rock Road

Assessing the Risk	
Hazard(s) addressed:	Severe Storm, Flood
Specific problem being mitigated:	Lack of drainage at library on Liberty Rock Road
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Elevate library - cost
Action/Project Intended for Implementation	
Description of Selected Action/Project	Flows from Liberty Rock Road - lack of drainage at library causes water to run beneath structure.
Mitigation Action Type	SIP
Goals Met	1, 2
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	Medium to High
Priority*	High
Plan for Implementation	
Responsible Organization	Village Board
Local Planning Mechanism	Hazard Mitigation, Stormwater
Potential Funding Sources	FEMA grant secured
Timeline for Completion	Short Term
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Sloatsburg-3 (old)

Mitigation Action Name:

Flows from Liberty Rock Road

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Reduce flooding impacts to surrounding residents
Property Protection	1	Reduce flooding impacts of structures in the area
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	1	Received grant funding
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Storm, Flood
Timeline	1	
Agency Champion	0	
Other Community Objectives	0	
Total	10	
Priority (H/M/L)	High	

Action Number:

V. Sloatsburg-4 (former 1.B)

Mitigation Action Name:

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

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	Current comprehensive plan does not incorporate natural hazards
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No action - current problem continues Request review from local colleges and universities – may not be willing/capable
Action/Project Intended for Implementation	
Description of Selected Action/Project	Ensure that local comprehensive plans incorporate natural disaster mitigation techniques through a courtesy review or draft plans by the County Planning Department.
Mitigation Action Type	LPR
Goals Met	1, 2, 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 Planning
Local Planning Mechanism	Hazard Mitigation, Comprehensive Plan
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. Sloatsburg-4 (former 1.B)
 Ensure that local comprehensive plans incorporate natural disaster mitigation techniques through a courtesy review or draft plans by the County Planning Department.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	0	
Fiscal	1	Municipal Budget
Environmental	0	
Social	0	
Administrative	1	1
Multi-Hazard	1	All
Timeline	0	DOF
Agency Champion	0	
Other Community Objectives	0	Supports the Comprehensive Plan
Total	7	
Priority (H/M/L)	Medium	

Action Number:

V. Sloatsburg-5 (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):	No action - current problem continues Rely on outside groups to conduct public outreach – may not be sustainable or at high enough standards
Action/Project Intended for Implementation	
Description of Selected Action/Project	Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.
Mitigation Action Type	EAP
Goals Met	1, 2, 3, 5, 7
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	High
Estimated Cost	Low
Priority*	High
Plan for Implementation	
Responsible Organization	Village
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. Sloatsburg-5 (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	
Cost-Effectiveness	1	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	0	
Fiscal	1	Municipal Budget
Environmental	0	
Social	1	
Administrative	1	1
Multi-Hazard	1	All
Timeline	0	DOF
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (H/M/L)	High	

Action Number:

V. Sloatsburg-6 (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):	No action - current problem continues Implement minimum requirements for floodplain areas – less protections
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	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Sloatsburg-6 (former 4.F)

Mitigation Action Name:

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	
Property Protection	1	
Cost-Effectiveness	1	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	0	
Fiscal	1	Municipal Budget
Environmental	0	
Social	1	
Administrative	1	1
Multi-Hazard	1	Flood
Timeline	0	DOF
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (H/M/L)	High	

Action Number:

V. Sloatsburg-7 (former 4.G)

Mitigation Action Name:

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

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):	No action - current problem continues Identify areas where repetitive loss is likely – approach not as focused, may be more costly
Action/Project Intended for Implementation	
Description of Selected Action/Project	Identify and document repetitively flooded properties. Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.
Mitigation Action Type	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
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. Sloatsburg-7 (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 p

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	0	
Fiscal	1	Municipal Budget
Environmental	0	
Social	1	
Administrative	1	1
Multi-Hazard	1	Flood
Timeline	0	DOF
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (H/M/L)	High	

Action Number:

V. Sloatsburg-8 (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):	No action - current problem continues Relocate all floodprone road systems – not feasible
Action/Project Intended for Implementation	
Description of Selected Action/Project	Develop specific mitigation solutions for floodprone road systems (roads, bridges, intersections, drainage, etc.) under the leadership of County DPW.
Mitigation Action Type	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, Floodplain Management
Potential Funding Sources	Municipal budget, grant funding where available
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Sloatsburg-8 (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	
Cost-Effectiveness	1	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Municipal budget, grant funding where available
Environmental	0	
Social	1	
Administrative	1	1
Multi-Hazard	1	Flood
Timeline	0	DOF
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number: V. Sloatsburg-9 (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):	No action - current problem continues Rebuild all critical facilities and shelters - cost
Action/Project Intended for Implementation	
Description of Selected Action/Project	Determine the year built and level of protection for critical emergency facilities and shelters to highlight structures built before codes and standards were put in place to provide some degree of protection from natural hazards, and pursue potential mitigation opportunities to protect these sites as funding becomes available.
Mitigation Action Type	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	Hazard Mitigation, Floodplain Management, 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. Sloatsburg-9 (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	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Municipal budget
Environmental	0	
Social	1	
Administrative	1	1
Multi-Hazard	1	All
Timeline	0	DOF
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number:

V. Sloatsburg-10 (former 11.B)

Mitigation Action Name:

Work with Rockland County to obtain access to the functional-needs registry to use as part of the Village’s emergency response plan.

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):	No action - current problem continues Develop municipal specific functional-needs registry – redundant and costly
Action/Project Intended for Implementation	
Description of Selected Action/Project	Work with Rockland County to obtain access to the functional-needs registry to use as part of the Village’s emergency response plan.
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. Sloatsburg-10 (former 11.B)
 Work with Rockland County to obtain access to the functional-needs registry to use as part of the Village’s emergency response plan.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Provide assistance to those with limited mobility or special needs
Property Protection	1	
Cost-Effectiveness	1	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Municipal budget
Environmental	0	
Social	1	Residents with limited mobility or special needs
Administrative	1	1
Multi-Hazard	1	All
Timeline	0	DOF
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number:

V. Sloatsburg-11 (old)

Mitigation Action Name:

Develop and enhance the public awareness program on hazards, prevention and mitigation. Continue to work with Rockland County on their program that provides information to the municipalities.

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	The Village currently does not have a comprehensive education and outreach program. There is a need to educate residents about storm preparation, response and recovery.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No action - current problem continues Rely on outside groups to conduct public outreach – may not be sustainable or at high enough standards
Action/Project Intended for Implementation	
Description of Selected Action/Project	Develop and enhance the public awareness program on hazards, prevention and mitigation. Continue to work with Rockland County on their program that provides information to the municipalities.
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, Emergency Management, Public Education
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. Sloatsburg-11 (old)
 Develop and enhance the public awareness program on hazards, prevention and mitigation. Continue to work with Rockland County on their program that provides information to the municipalities.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Municipal budget
Environmental	0	
Social	1	
Administrative	1	1
Multi-Hazard	1	All
Timeline	0	DOF
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number:

V. Sloatsburg-12 (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):	No action - current problem continues Encourage residents to use higher standards but do not enforce as part of code – sporadic impact
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	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:
Mitigation Action Name:

V. Sloatsburg-12 (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	
Cost-Effectiveness	1	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Municipal budget
Environmental	0	
Social	1	
Administrative	1	1
Multi-Hazard	1	All
Timeline	0	DOF
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number: V. Sloatsburg-13 (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):	No action - current problem continues Develop and enforce higher standards than NYS – not interested at this time
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	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Sloatsburg-13 (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	
Cost-Effectiveness	1	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Municipal budget
Environmental	0	
Social	1	
Administrative	1	1
Multi-Hazard	1	All
Timeline	0	DOF
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number: V. Sloatsburg-14 (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):	No action - current problem continues Update floodplain management ordinance to exceed FEMA regulations – not interested at this time
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	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Sloatsburg-14 (old)

Mitigation Action Name:

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	
Cost-Effectiveness	1	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Municipal budget
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood
Timeline	0	DOF
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number:

V. Sloatsburg-15 (old)

Mitigation Action Name:

Add/train sufficient members of staff to adequately enforce NFIP regulations/floodplain management ordinances

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Some of the Village staff are not adequately trained to enforce NFIP regulations and/or floodplain management ordinances.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No action - current problem continues Use volunteers to enforce regulations/ordinances – may not be properly trained/able to commit
Action/Project Intended for Implementation	
Description of Selected Action/Project	Add/train sufficient members of staff to adequately enforce NFIP regulations/floodplain management ordinances
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	Hazard Mitigation, Floodplain Management, Code Enforcement
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. Sloatsburg-15 (old)

Mitigation Action Name:

Add/train sufficient members of staff to adequately enforce NFIP regulations/floodplain management ordinances

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Municipal budget
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood
Timeline	0	DOF
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number: V. Sloatsburg-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):	No action - current problem continues Write new floodplain management ordinance with every new FIRM – not cost effective and repetitive
Action/Project Intended for Implementation	
Description of Selected Action/Project	Update/review floodplain management ordinances to be consistent with potential future new FIRMs
Mitigation Action Type	LPR
Goals Met	1, 2, 3, 7
Applies to existing and or new development, or not applicable	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	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:
Mitigation Action Name:

V. Sloatsburg-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	
Cost-Effectiveness	1	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Municipal budget
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood
Timeline	0	DOF
Agency Champion	1	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number: V. Sloatsburg-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):	No action - current problem continues Have staff attend courses on floodplain management but not become CFM's – lack of recognition from national organization. CRS awards points for CFM's
Action/Project Intended for Implementation	
Description of Selected Action/Project	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	Hazard Mitigation, Floodplain 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:

V. Sloatsburg-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	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	0	
Fiscal	0	Municipal budget
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	Flood
Timeline	0	DOF
Agency Champion	1	
Other Community Objectives	0	
Total	7	
Priority (H/M/L)	Medium	

Action Number:

V. Sloatsburg-18 (old)

Mitigation Action Name:

Consider joining the Community Rating System (CRS)

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	The Village is not in the CRS program
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No action - current problem continues Create municipal program to go above and beyond the requirements of NFIP – no flood insurance premium discounts
Action/Project Intended for Implementation	
Description of Selected Action/Project	Consider joining the Community Rating System (CRS)
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)	High
Estimated Cost	Low to Medium
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village
Local Planning Mechanism	Hazard Mitigation, Floodplain Management
Potential Funding Sources	Municipal budget, grant funding where available
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

V. Sloatsburg-18 (old)

Mitigation Action Name:

Consider joining the Community Rating System (CRS)

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	0	
Fiscal	1	Municipal budget, grant funding where available
Environmental	0	
Social	1	Residents with flood insurance would benefit
Administrative	1	
Multi-Hazard	1	Flood
Timeline	0	DOF
Agency Champion	0	
Other Community Objectives	0	
Total	8	
Priority (H/M/L)	Medium	

Action Number:

V. Sloatsburg-19

Mitigation Action Name:

Critical facilities located in the floodplain

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Critical facilities located in the floodplain are not only susceptible to flood damage but also create unnecessary complications for the municipality during an emergency event and post-disaster recovery.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No action - current problem continues Village can hire an outside contractor to work with the facility managers/operators/State to evaluate mitigation options identified in the selected action- cost
Action/Project Intended for Implementation	
Description of Selected Action/Project	The following critical facilities were identified as vulnerable to the flood hazard during the Rockland County HMP update. The Village does not have jurisdiction over these facilities to mitigate. The Village will notify the facility manager/operator to evaluate advise of potential mitigation alternatives to consider, potential funding sources for implementation and that NYS requires that any mitigation addresses the 500-year flood event or “worst damage scenario”. The following may be potential actions to reduce future flood losses; however the owners will need to determine the the most feasible and cost-effective action: elevate mechanicals; floodproof entry ways; relocate facility. - Pine Grove Pond water tower - NYS Thruway – Sloatsburg/Ramapo Service Area
Mitigation Action Type	SIP
Goals Met	1, 2, 4, 6
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	‘Private Property Owners’ with Village support
Local Planning Mechanism	Hazard Mitigation, Emergency Management
Potential Funding Sources	Municipal budget
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:
Mitigation Action Name:

V. Sloatsburg-19
Critical facilities located in the floodplain

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	1	
Fiscal	0	Municipal budget
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	0	Flood
Timeline	0	Short
Agency Champion	0	
Other Community Objectives	0	
Total	6	
Priority (H/M/L)	Medium	

Action Number:

V. Sloatsburg-20

Mitigation Action Name:

Sloatsburg Wastewater Treatment Plant

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Critical facilities located in the floodplain are not only susceptible to flood damage but also create unnecessary complications for the municipality during an emergency event and post-disaster recovery.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No action - current problem continues Move Plant outside of 500 year floodplain – not feasible
Action/Project Intended for Implementation	
Description of Selected Action/Project	Sloatsburg Wastewater Treatment Plant – raise utilities and other mechanical devices above the BFE. Assure that any mitigation addresses the 500-year flood event or “worst damage scenario”.
Mitigation Action Type	SIP
Goals Met	1, 2, 4, 6
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	Medium to High
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village Board
Local Planning Mechanism	Hazard Mitigation, Floodplain Management, Emergency Management
Potential Funding Sources	Municipal budget and grant funding where available
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:
Mitigation Action Name:

V. Sloatsburg-20
Sloatsburg Wastewater Treatment Plant

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	The costs to implement this project correspond with the benefits achieved
Technical	1	
Political	0	
Legal	1	
Fiscal	0	Municipal budget and grant funding where available
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	0	Flood
Timeline	0	Short
Agency Champion	0	
Other Community Objectives	0	
Total	6	
Priority (H/M/L)	Medium	