

9.19 VILLAGE OF SOUTH NYACK

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

9.19.1 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 |
|---|--|
| James Johnson: DPW Superintendent Email: southnyackdpw@optonline.net Phone: 845-222-1793 | Alain Leinbach: Deputy Mayor Email: alain.leinbach@southnyack.ny.gov Phone: 845-358-0287 |
| NFIP Floodplain Administrator (FPA) | |
| Steve Collazuol, Village Engineer 845-358-1510 collazuolassoc@verizon.net | |

9.19.2 Municipal Profile

The Village of South Nyack is located within the Town of Orangetown, along the western border of Rockland County. The Village is bordered to the north by the Village of Grand View-on-Hudson, to the south and east by the Town of Orangetown, and to the west by the Hudson River. The Hudson River is a major body of water found within the Village.

The Village has a total area of 1.7 square miles, of which, 0.6 square miles is land and 1.1 square miles is water. According to the 2010 Census, the community’s population was 3,510. The Village is governed by a Board of Trustees with a Mayor.

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

Table 9.19-1. 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 | | | | | |
| River Ridge | Residential | 1 Home | 7 Willow Court 66.69-1-2.6 | Flood: 0.2% Chance | Completed |
| River Ridge | Residential | 1 Home | 6 Willow Court 66.69-1-2.8 | Flood: 0.2% Chance | Completed |
| 90 Clinton Ave. | Residential | 1 Home | 90 Clinton Ave. 66.54-1-34.2 | WUI: Interface | Completed |
| Known or Anticipated Development in the Next Five (5) Years | | | | | |
| River Ridge | Residential | 14 Lots | 66.69-1-2.x | Flood: 0.2% Chance | Project on hold |
| Shared Use Path-part of New NY bridge project | Parkland | Improvements | Various | Location Undetermined | Project in progress |
| River Ridge | Residential | 2 Lots | | Location | Board approval |

| 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 |
|------------------------------|-------------------------|-------------------------|-------------------------------------|----------------------|-----------------------------------|
| | | | | Undetermined | pending |

* Only location-specific hazard zones or vulnerabilities identified.

9.19.3 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 9.19-2. Hazard Event History

| Dates of Event | Event Type (Disaster Declaration if applicable) | Rockland County Designated? | Summary of Damages/Losses |
|-------------------------------|---|-----------------------------|---|
| March 13-31, 2010 | Severe Storms and Flooding DR-1899 | Yes | Debris Removal - \$11,951.75 (59.22 tons) |
| December 26-27, 2010 | Severe Winter Storm and Snowstorm DR-1957 | Yes | Total Village costs - \$17,381.19 (54.71 tons of Salt; 453 gallons of Calcium) |
| August 25 – September 5, 2011 | Hurricane Irene DR-4020 | Yes | Total Infrastructure Damages - \$78,340.56; Emergency Protective Measures - \$9,318.36; Debris removal - \$9,284.18; Police overtime - \$3,012.99 |
| October 27 – November 8, 2012 | Hurricane Sandy DR-4085 | Yes | Total Infrastructure Damages - \$83,951.62; Emergency Protective Measures - \$14,296.12; Debris Removal - \$98,555.41 |

Notes:

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

9.19.4 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 South Nyack. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

Natural Hazard Risk/Vulnerability Risk Ranking

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

Table 9.19-3. 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: \$188,232 2,500-Year GBS: \$4,298,320 | Occasional | 24 | Medium |
| Extreme Temperature | Damage estimate not available | Frequent | 21 | Medium |
| Flood | 1% Annual Chance: \$0 | Frequent | 36 | High |
| Landslide | RCV Exposed: \$0 | Rare | 6 | Low |
| Severe Storm | 100-Year MRP: \$217,807 500-year MRP: \$4,320,252 Annualized: \$21,052 | Frequent | 48 | High |
| Winter Storm | 1% GBS: \$5,207,050 5% GBS: \$26,035,250 | Frequent | 51 | High |
| Wildfire | Estimated Value in the WUI: \$602,552,000 | 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 South Nyack.

Table 9.19-4. NFIP Summary

| Municipality | # Policies (1) | # Claims (Losses) (1) | Total Loss Payments (2) | # Rep. Loss Prop. (1) | # Severe Rep. Loss Prop. (1) | # Policies in 1% Boundary (3) |
|------------------------|----------------|-----------------------|-------------------------|-----------------------|------------------------------|-------------------------------|
| Village of South Nyack | 18 | 23 | \$560,654 | 2 | 1 | 3 |

Source: FEMA Region 2, 2016

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

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

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

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

Critical Facilities

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 9.19-5. 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 |
| Salisbury | Communication | | X | - | - |
| Nyack College | School | | X | - | - |
| Nyack Middle School | School | | X | - | - |

Source: Hazus-MH 3.2, Rockland County

Other Vulnerabilities Identified

The municipality has identified the following vulnerable areas within their community:

- Cedar Hill Ave (Flooding)
- Washington St (Flooding)
- Salisbury Pl (Flooding)

9.19.5 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 South Nyack.

Table 9.19-6. 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 9/18/1969 | Local | | Master Plan |
| Capital Improvements Plan | No | | | |
| Floodplain Management / Basin Plan | Yes | Local | | Flood Map |
| Stormwater Management Plan | Yes | Local | | MS4 |

| 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.) |
|---|---|--|---------------------------------|--|
| Open Space Plan | No | | | |
| Stream Corridor Management Plan | Yes | Local | | Village Code 107.1 |
| Watershed Management or Protection Plan | Yes | | | |
| Economic Development Plan | No | | | |
| Comprehensive Emergency Management Plan | No | | | |
| Emergency Operation Plan | No | | | |
| Post-Disaster Recovery Plan | No | | | |
| Transportation Plan | No | | | |
| Strategic Recovery Planning Report | No | | | |
| Other Plans: | | | | |
| Regulatory Capability | | | | |
| Building Code | Yes | State & Local | | NYS, Village Code, Zoning Local Law |
| Zoning Ordinance | Yes 9/13/2005 | Local | | Zoning Code |
| Subdivision Ordinance | Yes 9/13/2005 | Local | | Zoning Local Law 110-17 |
| 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 9/13/2005 | Local | | Zoning Code 110-14.3 |
| Stormwater Management Ordinance | Yes | Local | | Village Local Law 2 - 2011 |
| Municipal Separate Storm Sewer System (MS4) | Yes | Local | | Village Local Law 3 - 2011 |
| Natural Hazard Ordinance | Yes | | | |
| 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 9/13/2005 | Local | | Critical Environmental Areas 110-4.5, Bulking standards for development of unsuitable land 110-7.2, Development on Hillsides 110-7.3, Tree Ordinance |

Administrative and Technical Capability

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



Table 9.19-7. Administrative and Technical Capabilities

| Resources | Is this in place? (Yes or No) | Department/ Agency/Position |
|---|-------------------------------|------------------------------------|
| Administrative Capability | | |
| Planning Board | Yes | Building Dept. |
| Mitigation Planning Committee | No | |
| Environmental Board/Commission | Yes | Building Dept. |
| Open Space Board/Committee | No | |
| Economic Development Commission/Committee | No | |
| Maintenance programs to reduce risk | Yes | DPW |
| Mutual aid agreements | Yes | Rockland County, Orangetown, Nyack |
| Technical/Staffing Capability | | |
| Planner(s) or engineer(s) with knowledge of land development and land management practices | Yes | Building Dept./Village Engineer |
| Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure | Yes | Building Inspector |
| Planners or engineers with an understanding of natural hazards | Yes | Village Engineer |
| NFIP Floodplain Administrator (FPA) | Yes* | Village Engineer |
| Surveyor(s) | Yes | Village Engineer |
| Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications | Yes | Building Dept./Village Engineer |
| Scientist familiar with natural hazards | No | |
| Emergency Manager | Yes | DPW Superintendent |
| Grant writer(s) | No | |
| Staff with expertise or training in benefit/cost analysis | No | |
| Professionals trained in conducting damage assessments | Yes | DPW Superintendent |

Fiscal Capability

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

Table 9.19-8. 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 | Yes – Village Board |
| Incur debt through general obligation bonds | Yes – Village Board |
| Incur debt through special tax bonds | No |
| Incur debt through private activity bonds | Yes – Village Board |
| Withhold public expenditures in hazard-prone areas | No |

| Financial Resources | Accessible or Eligible to Use (Yes/No) |
|---|--|
| Other federal or state Funding Programs | Yes |
| Open Space Acquisition funding programs | No |
| Other | |

Community Classifications

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

Table 9.19-9. 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) | Yes | | |
| 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 South Nyack’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.19-10. Self-Assessment Capability for the Municipality

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

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

Steven Collazuol

Flood Vulnerability Summary

The Village currently maintains a list of properties that have been flood damaged, which also identifies property owners that are interested in various mitigation actions. A few properties were damaged during storms including Floyd, Irene, and Sandy; these include South Nyack Village Park and properties located in the Gesner Avenue, Piermont Avenue, and Vorrhis Point areas of the Village. The Village does not make Substantial Damage estimates. One or two property owners are interested in mitigation; funding for these projects will need to be obtained.

Resources

Along with the FPA, the Building Inspector and DPW Superintendent offer assistance assuming the responsibilities of floodplain administration for the Village. The NFIP administration services and functions provided by the FPA include permit review. The FPA indicated that there are no barriers to running an effective floodplain management program and that he is adequately supported and trained to fulfill the responsibilities as the municipal floodplain administrator. The FPA would attend continuing education and/or certification training on floodplain management if it were offered in the County.

Compliance History

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

Regulatory

The Village's floodplain management regulations/ordinances meet the requirements set by FEMA and the State. The planning board and zoning board consider efforts to reduce flood risk when reviewing variances. The community is considering joining the Community Rating System, and would attend a CRS seminar if offered locally.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

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

Planning

Land Use Planning: Incorporated into the Village Code, land use planning decisions are reliant on hazard prevention. The Planning Board has the ability to deny development on all land which it deems unsuitable for reasons including, flooding, improper drainage, steep slopes, rock formations, utility easements, and additional features that may pose harm to the safety, health, and general welfare of the public. Factored into the bulk standards for development, at least 50% of the minimum lot area must not be underwater, exposed to the 100-year floodplain, or contained in a designated wetland. Land use planning decisions are aimed to reduce the risk of hazardous events (both natural and manmade).

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

Regulatory and Enforcement (Ordinances)

Flood Damage Prevention: This ordinance promotes the public health, safety, and general welfare of residents and seeks to minimize destruction or loss of private and public housing, damage to public facilities, both publicly and privately owned, and injury to and loss of human life. It regulates development to promote flood resistant structures and controls the alteration of floodplains to prevent increased vulnerability.

Stormwater Management and Erosion and Sediment Control: Local Law #2 of 2011 - This ordinance aims to protect the health, well-being, and property of residents in the Village. The ordinance establishes requirements in accordance with NYSDEC SPDES permitting, as well as additional requirements for reducing stormwater runoff from land developments.

Prohibit Illicit Discharges, Activities, and Connections to separate stormwater sewer systems - Local Law #3 of 2011 – Like Local Law #2 above, this ordinance aims to protect the health, safety, and general welfare of the residents of the Village. The law regulates non-stormwater discharges to the MS4 system to the maximum extent possible, as required by state and federal law, to control the introduction of pollutants into the system in order to comply with SPDES General Permit for MS4 system requirements.

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

Critical Environmental Areas: The Village has several ordinances that require the Planning and Zoning Board to take into account the environment and hazardous areas before approving developments. These include Bulk Standards for development of unsuitable land (110-7.2), Development on hillsides (110-7.3), and Critical environmental areas (110-4.5). Critical environmental areas include a ‘Run-off Area’ that poses specific concerns for run-off and drainage problems because of its steep hillsides and presence of the NYS Thruway.

Funding

Operating Budget: The Village budget includes funding allocated towards capital improvements.

Grants: The Village has received a grant for \$212,000 for the New York Bridge Project, a community benefit agreement to aid in funding for emergency services and access to communities along the Hudson River.

Education and Outreach

The Village utilizes email notifications to provide residents with information and alerts regarding upcoming hazard events. The Village has adopted multiple methods of public outreach to educate on various topics for stormwater management, including green infrastructure, water conservation, pollution control, and hazardous waste disposal. Methods of outreach include mailings, displays at Village Offices and Franklin Street Park, and public events/presentations. The Village also held a health fair, Hope Fest, which provided participants with a wealth of information regarding public health.

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.

9.19.6 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 9.19-11. Status of Previous Mitigation Actions

| Action Number | 2010 Mitigation Action | Responsible Party | Status (In progress, No progress, Complete) | Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | Next Step (Include in 2018 HMP or Discontinue) | Describe Next Step 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|---------------|--|------------------------------|--|---|---|--|
| Old SN-1 | Storm drain – South Highland Ave. | Department of Public Works | No Progress | 1. 0% complete 2. The item is being discussed. 3. No funding secured | Include in 2018 HMP | Seek funding and resources |
| Old SN-2 | Storm drain – Cedar Hill Ave. | Department of Public Works | Complete | 1. 100% 2. Storm drain completed 3. Municipal budget | Discontinue | Complete |
| Old SN-3 | Broadway culvert | Department of Public Works | No Progress | 1. 0% complete 2. The item is being discussed. 3. No funding secured | Include in 2018 HMP | Seek funding and resources |
| Old SN-4 | Upgrade generator in Village Hall/Police Station | Department of Public Works | No Progress | 1. 0% complete 2. The item is being discussed. 3. No funding secured | Include in 2018 HMP | Seek funding and resources |
| 1.B | Ensure that local comprehensive plans incorporate natural disaster mitigation techniques through a courtesy review or draft plans by the County Planning Department. | Comprehensive Planning Board | In progress | 1. 10% 2. A revision of the Village’s Comprehensive Plan is in progress. No natural disaster mitigation requirements have been considered due to CPB unawareness of requirements. 3. Municipal budget | Include in 2018 HMP | HMP to provide guidance to CPB; conduct review prior to revision completion or amend post revision with help from County |
| 2.A | Expand and disseminate GIS and other hazard information on the internet. | CPG member; Village Trustee | In Progress | 1. 10% complete 2. The item is being discussed. 3. No funding secured | Include in 2018 HMP | As a member of Stormwater Consortium of Rockland County, seek grant funding to update GIS mapping, specifically stormwater mapping |

| <u>Action Number</u> | <u>2010 Mitigation Action</u> | <u>Responsible Party</u> | <u>Status</u> (In progress, No progress, Complete) | <u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | <u>Next Step</u> (Include in 2018 HMP or Discontinue) | <u>Describe Next Step</u> 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|----------------------|---|-----------------------------|---|---|--|---|
| Old SN-5 | Work with local municipalities to pursue the development of an Emergency Notification System call perimeter for high risk locations of natural hazards with delineable hazard areas. Rockland County staff will make aerial mapping available, along with GIS mapping for natural hazards that was completed as part of the hazard mitigation planning project. The County will also facilitate the utilization of the Emergency Notification System by municipalities. | CPG member; Village Trustee | Complete | Municipal efforts led by DPW and Police Department Rockland County has mapping services available to municipalities through their on-line web map portal. Disaster Land is a web-based emergency management software system; municipalities are granted access to it; flood inundation zones are incorporated into it so Emergency Coordinator from the municipality has access to it 24/7 on smart phone/laptop/desktop. The County utilizes NY-Alert and CodeRed (the backup to NY-Alert) for emergency notifications (all Towns and Villages have access to it; New Hempstead not using CodeRed). There is a mailbox for known inundation areas to target outreach as needed; and have license for FEMA's IPAWS to issue notifications. | Discontinue | Complete |
| Old SN-6 | 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 is being discussed. 3. No funding secured | Include in 2018 HMP | Work to plan workshops to educate the public on these issues |
| 4.F | Continue to implement best management practices for floodplain areas. | CPG member; Village Trustee | Complete | 1. 100% 2. Village Local Law 2 & 3 – 2011 3. Local budget | Discontinue | Action no longer required – standard practice |

| <u>Action Number</u> | <u>2010 Mitigation Action</u> | <u>Responsible Party</u> | <u>Status</u> (In progress, No progress, Complete) | <u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | <u>Next Step</u> (Include in 2018 HMP or Discontinue) | <u>Describe Next Step</u> 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|----------------------|--|-----------------------------|---|--|--|---|
| 4.G | Identify and document repetitively flooded properties. Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties. | CPG member; Village Trustee | Complete | 1. 100% 2. Action completed 3. Municipal budget | Discontinue | Complete |
| 4.J | Develop specific mitigation solutions for floodprone road systems (roads, bridges, intersections, drainage, etc.) under the leadership of County DPW. | DPW | Complete | 1. 100% 2. New drainage system on Cedar Hill Ave., Washington St. and Salisbury Pl. 3. Municipal budget | Discontinue | Complete |
| 13.A | Determine the year built and level of protection for critical emergency facilities and shelters to highlight structures built before codes and standards were put in place to provide some degree of protection from natural hazards, and pursue potential mitigation opportunities to protect these sites as funding becomes available. | CPG member; Village Trustee | In progress | 1. 25% Complete 2. Orangetown Firehouse 1963, Village Hall, DPW Garage 1995 3. Municipal budget | Include in 2018 HMP | Work to determine level of protection for various hazardous events and discuss what mitigation actions may be feasible |

| <u>Action Number</u> | <u>2010 Mitigation Action</u> | <u>Responsible Party</u> | <u>Status</u> (In progress, No progress, Complete) | <u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | <u>Next Step</u> (Include in 2018 HMP or Discontinue) | <u>Describe Next Step</u> 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|----------------------|--|---|---|--|--|---|
| 11.B | Review existing emergency response plans for enhancement opportunities: work with social support agencies, homeowners associations and general public to develop and implement monitoring and warning systems focused on vulnerable populations and provision of adequate shelter facilities. | CPG member; Village Trustee | Complete | 1. 100% 2. Action completed 3. Municipal budget | Discontinue | Complete |
| Old SN-7 | Public awareness program on hazards, prevention and mitigation: assist CPG Chairperson in maintenance of mitigation planning web presence; assist CPG Chairperson in preparation of annual hazards and mitigation planning fact sheet and its distribution; assist CPG chairperson in preparation of hazards survey; periodic discussion of hazard mitigation and the mitigation plan at other regular local meetings; use of annual flyers, newsletters, advertisements, or radio/TV announcements, etc. at the discretion of the jurisdiction (incorporating as much free information as possible from the FEMA publications warehouse and other appropriate sources). | RCOFES lead with direct participation and involvement from each jurisdiction's CPG member | Complete | 1. 100% Complete 2. Village uses email notification to share important information, announcements. 3. Municipal budget | Discontinue | Action no longer required – standard practice |

| <u>Action Number</u> | <u>2010 Mitigation Action</u> | <u>Responsible Party</u> | <u>Status</u> (In progress, No progress, Complete) | <u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)? | <u>Next Step</u> (Include in 2018 HMP or Discontinue) | <u>Describe Next Step</u> 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why. |
|----------------------|--|--------------------------------|---|--|--|---|
| Old SN-8 | Code update: review existing local codes and ordinances against the identified hazards to determine whether there needs to be any amendments to address identified hazards and, where a need is identified; modify/amend the codes/ordinances as applicable. | Each jurisdictional CPG member | In progress | 1. 10% complete 2. The item was discussed, codes being reviewed. 3. No funding secured | Include in 2018 HMP | Actively review existing codes and ordinances against the newly identified hazard areas |
| Old SN-9 | Code enforcement: enforcement of NYS and local building codes | Each jurisdictional CPG member | Complete | 1. Complete 2. Building codes enforced 3. Municipal budget | Discontinue | Action no longer required – standard practice |
| Old SN-10 | Update/revise floodplain management ordinance to comply with latest FEMA regulations | Village Engineer | Complete | 1. Complete 2. Ordinance updated/revise 3. Municipal budget | Discontinue | Complete |
| Old SN-11 | Update/review floodplain management ordinances to be consistent with potential future new FIRMS | Village Engineer | In Progress | 1. 10% complete 2. The item was discussed. 3. No funding secured | Include in 2018 HMP | Obtain most up-to-date FEMA data and compare with existing ordinances |
| Old SN-12 | Require staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs) | Village Engineer | No Progress | 1. 0% complete 2. The item was not discussed. 3. No funding secured | Include in 2018 HMP | Seek funding and training and education opportunities for staff to become certified |

Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The Village of South Nyack 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 South Nyack participated in a mitigation action workshop in February 16, 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 9.19-12 summarizes the comprehensive-range of specific mitigation initiatives the Village of South Nyack would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

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

Table 9.19-13 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.

Table 9.19-12. Proposed Hazard Mitigation Initiatives

| Initiative | Mitigation Initiative | Applies to New and/or Existing Structures* | Hazard(s) Mitigated | Goals and Objectives Met | Lead and Support Agencies | Estimated Benefits | Estimated Cost | Sources of Funding | Timeline | Priority | Mitigation Category | CRS Category |
|-----------------|--|--|------------------------|--------------------------|------------------------------------|--------------------|----------------|----------------------------------|----------|----------|---------------------|--------------|
| SN-1 (Old SN-1) | Storm drain – South Highland Ave. | Existing | Flooding, Severe Storm | 1, 2, 4 | Department of Public Works | High | High | Municipal funding; Grant funding | DOF | Medium | SIP | SP |
| SN-2 (Old SN-3) | Broadway culvert | Existing | Flooding, Severe Storm | 1, 2, 4 | Department of Public Works | High | High | Municipal funding; Grant funding | DOF | Low | SIP | SP |
| SN-3 (Old SN-4) | Upgrade generator in Village Hall/Police Station | Existing | All | 1 | Department of Public Works | High | High | Municipal funding; Grant funding | DOF | High | SIP | PP |
| SN-4 (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 Hazards | 1, 2, 3, 5, 7 | CPG member; <u>Village Trustee</u> | Medium | Low | Municipal budget | DOF | Medium | LPR, EAP | PI, PR |
| SN-5 (2.A) | Expand and disseminate GIS and other hazard information on the internet. | N/A | All Hazards | All | CPG member; <u>Village Trustee</u> | Medium | Medium | Municipal funding; Grant funding | DOF | Medium | EAP | PI |
| SN-6 (Old SN-6) | Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation. | N/A | All Hazards | 1, 2, 3, 5, 7 | CPG member; <u>Village Trustee</u> | High | Low | Municipal Budget | Ongoing | High | EAP | PI |

Table 9.19-12. Proposed Hazard Mitigation Initiatives

| Initiative | Mitigation Initiative | Applies to New and/or Existing Structures* | Hazard(s) Mitigated | Goals and Objectives Met | Lead and Support Agencies | Estimated Benefits | Estimated Cost | Sources of Funding | Timeline | Priority | Mitigation Category | CRS Category |
|-------------------|--|--|---------------------|--------------------------|------------------------------------|--------------------|----------------|--------------------|----------|----------|---------------------|--------------|
| SN-7 (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 Hazards | 1, 2, 5, 7 | CPG member; <u>Village Trustee</u> | Medium | Low | Municipal budget | Short | Medium | LPR | PR |
| SN-8 (Old SN-8) | Code update: review existing local codes and ordinances against the identified hazards to determine whether there needs to be any amendments to address identified hazards and, where a need is identified; modify/amend the codes/ordinances as applicable. | N/A | All | 1, 2, 3, 5, 7 | Each jurisdictional CPG member | Medium | Low | Municipal budget | Short | High | LPR | PR |
| SN-9 (Old SN-11) | Update/review floodplain management ordinances to be consistent with potential future new FIRMs | N/A | Flood | 1, 2, 3, 7 | Village Engineer | Medium | Low | Municipal budget | Short | High | EAP | PI |
| SN-10 (Old SN-12) | Require staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs) | N/A | Flood | 1, 2, 3, 7 | Village Engineer | Medium | Low | Municipal budget | DOF | Medium | LPR | PR |



Table 9.19-12. Proposed Hazard Mitigation Initiatives

| Initiative | Mitigation Initiative | Applies to New and/or Existing Structures* | Hazard(s) Mitigated | Goals and Objectives Met | Lead and Support Agencies | Estimated Benefits | Estimated Cost | Sources of Funding | Timeline | Priority | Mitigation Category | CRS Category |
|------------|---|--|---------------------|--------------------------|----------------------------------|--------------------|----------------|--------------------|----------|----------|---------------------|--------------|
| SN-11 | Develop and maintain mapping of all natural hazard risk areas in the Village, FEMA delineated or otherwise, to support land use decision making (e.g. Planning Board, site plan review process) | New/Existing | All Hazard | 1, 2, 3, 4, 6 | Village Engineer; Planning Board | Medium | Low | Municipal Budget | DOF | Medium | EAP | PI |

Table 9.19-12. Proposed Hazard Mitigation Initiatives

| Initiative | Mitigation Initiative | Applies to New and/or Existing Structures* | Hazard(s) Mitigated | Goals and Objectives Met | Lead and Support Agencies | Estimated Benefits | Estimated Cost | Sources of Funding | Timeline | Priority | Mitigation Category | CRS Category |
|------------|---|--|---------------------|--------------------------|---|--------------------|----------------|--------------------|----------|----------|---------------------|--------------|
| SN-12 | 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 most feasible and cost-effective action: elevate mechanicals; floodproof entry ways; install portable/mechanical flood walls; relocate facility. -Nyack Middle School -Nyack College -Salisbury Communication | Existing | Flood | 1, 2, 4, 6 | Facility Owner with Village Board Support | High | Low | Municipal budget | 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 (discontinued in 2015) |
| SRL | Severe Repetitive Loss Grant Program (discontinued in 2015) |

Timeline:

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

Costs:

Where actual project costs have been reasonably estimated:

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

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

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

Benefits:

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

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

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

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

Mitigation Category:

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

CRS Category:

- Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection (PP) - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- Public Information (PI) - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.



- *Natural Resource Protection (NR) - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.*
- *Structural Flood Control Projects (SP) - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.*
- *Emergency Services (ES) - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities*

Table 9.19-13. 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 |
|----------------------------------|---|-------------|---------------------|--------------------|-----------|-----------|-------|--------|---------------|--------|----------------|--------------|----------|-----------------|----------------------------|-------|---------------------|
| SN-1 (Old SN-1) | Storm drain – South Highland Ave. | 1 | 1 | 1 | 1 | 0 | 1 | -1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 8 | Medium |
| SN-2 (Old SN-3) | Broadway culvert | 1 | 1 | 1 | 1 | 0 | 1 | -1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 8 | Low |
| SN-3 (Old SN-4) | Upgrade generator in Village Hall/Police Station | 1 | 1 | 1 | 1 | 0 | 1 | -1 | 1 | 1 | -1 | 1 | 1 | 0 | 0 | 7 | High |
| SN-4 (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 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 8 | Medium |
| SN-5 (2.A) | Expand and disseminate GIS and other hazard information on the internet. | 1 | 1 | 1 | 1 | 0 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 7 | Medium |
| SN-6 (Old SN-6) | 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 |
| SN-7 (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 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 8 | Medium |



Table 9.19-13. 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 |
|----------------------------------|--|-------------|---------------------|--------------------|-----------|-----------|-------|--------|---------------|--------|----------------|--------------|----------|-----------------|----------------------------|-------|---------------------|
| | from natural hazards, and pursue potential mitigation opportunities to protect these sites as funding becomes available. | | | | | | | | | | | | | | | | |
| SN-8 (Old SN-8) | Code update: review existing local codes and ordinances against the identified hazards to determine whether there needs to be any amendments to address identified hazards and, where a need is identified; modify/amend the codes/ordinances as applicable. | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 1 | 0 | 1 | 0 | 8 | High |
| SN-9 (Old SN-11) | 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 | High |
| SN-10 (Old SN-12) | 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 |
| SN-11 | Develop and maintain mapping of all natural hazard risk areas in the Village, FEMA delineated or otherwise, to support | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 0 | 8 | Medium |



Table 9.19-13. 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 |
|----------------------------------|--|-------------|---------------------|--------------------|-----------|-----------|-------|--------|---------------|--------|----------------|--------------|----------|-----------------|----------------------------|-------|---------------------|
| | land use decision making (e.g. Planning Board, site plan review process) | | | | | | | | | | | | | | | | |
| SN-12 | Critical facilities are 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”. - Nyack Middle School -Nyack College -Salisbury Communication | 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.

9.19.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

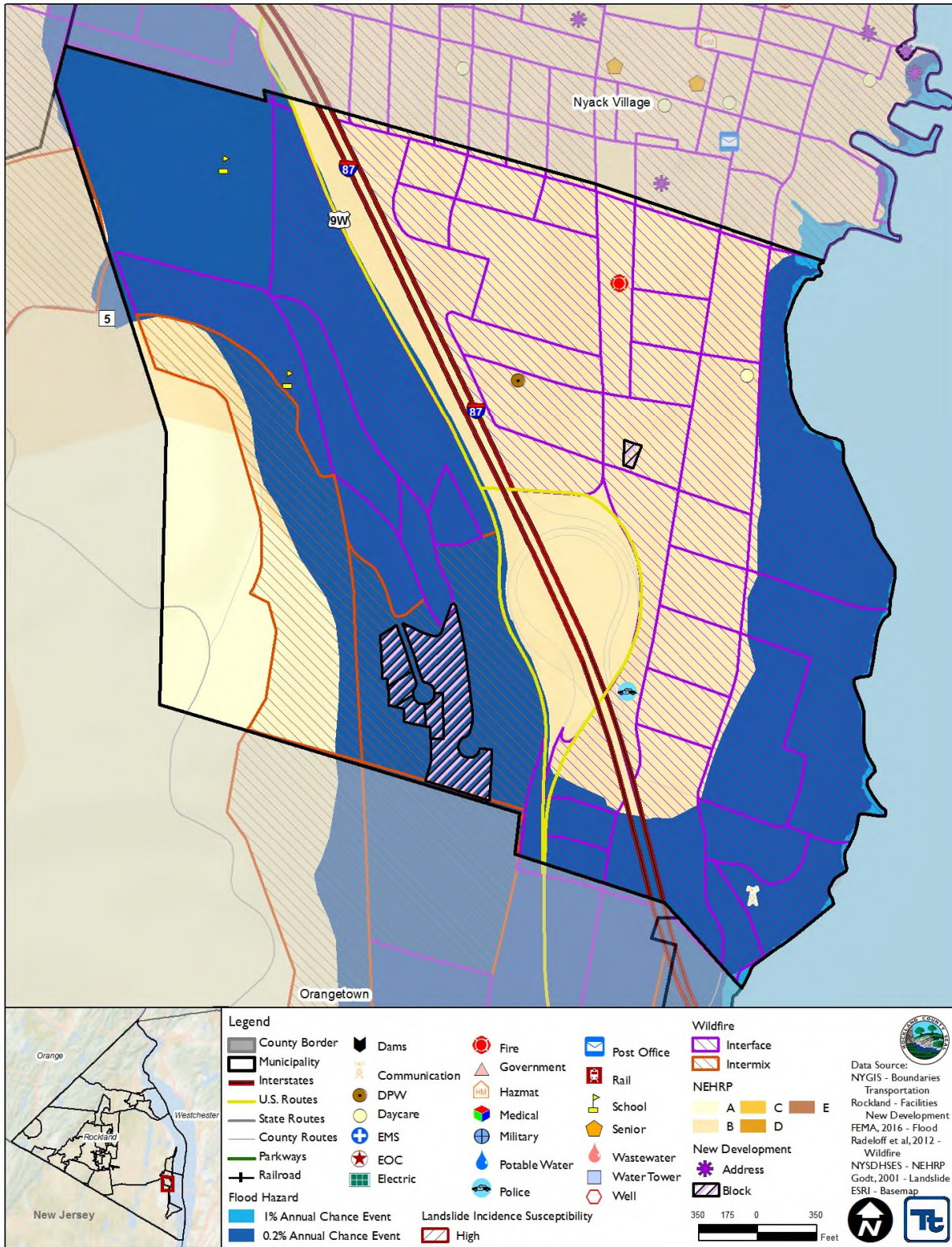
9.19.8 Hazard Area Extent and Location

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

9.19.9 Additional Comments

None at this time.

Figure 9.19-1. Village of South Nyack Hazard Area Extent and Location Map



Action Number:

SN-1

Mitigation Action Name:

Storm drain – South Highland Ave.

| Assessing the Risk | |
|--|--|
| Hazard(s) addressed: | Flooding, Severe Storm |
| Specific problem being mitigated: | Proper stormwater drainage is needed to help mitigate any increases in flooding |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | No Action - current problem continues Install roadside rain gardens – not enough space |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | The proposed project will upgrade or replace an existing storm drain and allow for improved stormwater drainage. |
| Mitigation Action Type | SIP |
| Goals Met | 1, 2, 4 |
| Applies to existing and or new development, or not applicable | Existing |
| Benefits (losses avoided) | High |
| Estimated Cost | High |
| Priority* | Medium |
| Plan for Implementation | |
| Responsible Organization | Department of Public Works |
| Local Planning Mechanism | Hazard Mitigation, Engineering |
| Potential Funding Sources | Municipal funding; Grant funding |
| Timeline for Completion | DOF |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: 6/01/2017 Progress on Action/Project: Unable to secure funding |

Action Number: SN-1
Mitigation Action Name: Storm drain – South Highland Ave.

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

Action Number:

SN-2

Mitigation Action Name:

Broadway culvert

| Assessing the Risk | |
|---|---|
| Hazard(s) addressed: | Flooding, Severe Storm |
| Specific problem being mitigated: | Undersize culvert along Broadway, which leads to flooding issues along the roadway |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | No Action - current problem continues Remove culvert and relocate Broadway – not feasible |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | The proposed project will upgrade or replace the existing culvert and allow for improved stormwater drainage. |
| Mitigation Action Type | SIP |
| Goals Met | 1, 2, 4 |
| Applies to existing and or new development, or not applicable | Existing |
| Benefits (losses avoided) | High |
| Estimated Cost | High |
| Priority* | Low |
| Plan for Implementation | |
| Responsible Organization | Department of Public Works |
| Local Planning Mechanism | Hazard Mitigation, Engineering |
| Potential Funding Sources | Municipal funding; Grant funding |
| Timeline for Completion | DOF |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: 6/01/2017 Progress on Action/Project: Unable to secure funding |

Action Number: SN-2
 Mitigation Action Name: Broadway culvert

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

Action Number:

SN-3

Mitigation Action Name:

Upgrade generator in Village Hall/Police Station

| Assessing the Risk | |
|---|--|
| Hazard(s) addressed: | All |
| Specific problem being mitigated: | Backup power to these essential facilities is critical during an emergency event |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | No Action - current problem continues Install solar panels – cost and weather dependent |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | Upgrade generator to ensure the building's ability to remain functional during an event. |
| Mitigation Action Type | SIP |
| Goals Met | 1 |
| Applies to existing and or new development, or not applicable | Existing |
| Benefits (losses avoided) | High |
| Estimated Cost | High |
| Priority* | High |
| Plan for Implementation | |
| Responsible Organization | Department of Public Works |
| Local Planning Mechanism | Hazard Mitigation |
| Potential Funding Sources | Municipal funding; Grant funding |
| Timeline for Completion | DOF |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: 6/01/2017 Progress on Action/Project: Unable to secure funding |

Action Number:

SN-3

Mitigation Action Name:

Upgrade generator in Village Hall/Police Station

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

Action Number:

SN-4

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 Hazards |
| Specific problem being mitigated: | The current comprehensive plan does not incorporate natural disaster mitigation techniques |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | No Action - current problem continues Request review from local colleges and – may not be capable/willing |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | Ensure that local comprehensive plans incorporate natural disaster mitigation techniques through a courtesy review or draft plans by the County Planning Department. |
| Mitigation Action Type | LPR, 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 | CPG member; Village Trustee |
| Local Planning Mechanism | Planning Board Review |
| Potential Funding Sources | Municipal budget |
| Timeline for Completion | DOF |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: 6/01/2017 Progress on Action/Project: HMP to provide guidance to CPB; conduct review prior to revision completion or amend post revision with help from County |

Action Number:

SN-4

Mitigation Action Name:

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

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

Action Number:

SN-5

Mitigation Action Name:

Expand and disseminate GIS and other hazard information on the internet.

| Assessing the Risk | |
|---|---|
| Hazard(s) addressed: | All Hazards |
| Specific problem being mitigated: | Lack of public knowledge on the spatial extent of hazards. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | No Action - current problem continues Request assistance from local colleges and universities in developing mapping – may not be feasible, sustainable |
| Action/Project Intended for Implementation | |
| Description of Selected Action/Project | Provide GIS hazard information online for residents and others in the community to view the Village's hazard vulnerabilities. |
| Mitigation Action Type | EAP |
| Goals Met | All |
| Applies to existing and or new development, or not applicable | N/A |
| Benefits (losses avoided) | Medium |
| Estimated Cost | Medium |
| Priority* | Medium |
| Plan for Implementation | |
| Responsible Organization | CPG member; Village Trustee |
| Local Planning Mechanism | Hazard Mitigation, Public Education |
| Potential Funding Sources | Municipal funding; Grant funding |
| Timeline for Completion | DOF |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: 6/01/2017 Progress on Action/Project: Unable to secure funding; As a member of Stormwater Consortium of Rockland County, seek grant funding to update GIS mapping, specifically stormwater mapping |

Action Number:

SN-5

Mitigation Action Name:

Expand and disseminate GIS and other hazard information on the internet.

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

Action Number:

SN-6

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 Hazards |
| Specific problem being mitigated: | The public may not be aware of the Village's hazard vulnerabilities and planning/zoning decisions. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | No Action - current problem 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 | CPG member; Village Trustee |
| Local Planning Mechanism | Hazard Mitigation, Public Education |
| Potential Funding Sources | Municipal Budget |
| Timeline for Completion | Ongoing |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: 6/01/2017 Progress on Action/Project: Unable to secure funding; Work to plan workshops to educate the public on these issues |

Action Number:

SN-6

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 | |
| Technical | 1 | |
| Political | 0 | |
| Legal | 0 | |
| Fiscal | 1 | |
| Environmental | 0 | |
| Social | 1 | |
| Administrative | 1 | |
| Multi-Hazard | 1 | |
| Timeline | 0 | |
| Agency Champion | 1 | |
| Other Community Objectives | 0 | |
| Total | 9 | |
| Priority (H/M/L) | High | |

Action Number:

SN-7

Mitigation Action Name:

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

| Assessing the Risk | |
|--|--|
| Hazard(s) addressed: | All Hazards |
| Specific problem being mitigated: | If facilities were built before a certain date, they could be more susceptible to damage from a hazard event. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | No Action - current problem 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 | CPG member; Village Trustee |
| Local Planning Mechanism | Hazard Mitigation |
| Potential Funding Sources | Municipal budget |
| Timeline for Completion | Short |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: 6/01/2017 Progress on Action/Project: Unable to secure funding |

Action Number:

SN-7

Mitigation Action Name:

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

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

Action Number:

SN-8

Mitigation Action Name:

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

| Assessing the Risk | |
|--|--|
| Hazard(s) addressed: | All |
| Specific problem being mitigated: | New vulnerabilities could have emerge or existing vulnerabilities could have worsen, which could warrant a code update. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | No Action - current problem 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 | The Village would like to review and potentially update their existing local codes/ordinances against the identified hazards to determine whether there needs to be any amendments to address identified hazards and, where a need is identified; modify/amend the codes/ordinances as applicable. |
| Mitigation Action Type | LPR |
| Goals Met | 1, 2, 3, 5, 7 |
| Applies to existing and or new development, or not applicable | N/A |
| Benefits (losses avoided) | Medium |
| Estimated Cost | Low |
| Priority* | High |
| Plan for Implementation | |
| Responsible Organization | Each jurisdictional CPG member |
| Local Planning Mechanism | Hazard Mitigation |
| Potential Funding Sources | Municipal budget |
| Timeline for Completion | Short |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: 6/01/2017 Progress on Action/Project: Actively review existing codes and ordinances against the newly identified hazard areas |

Action Number:

SN-8

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.

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

Action Number:

SN-9

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: | Future FIRMS could show the need for a more stringent flood ordinance if risk has increased. |
| Evaluation of Potential Actions/Projects | |
| Actions/Projects Considered (name of project and reason for not selecting): | No Action - current problem 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 | 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* | High |
| Plan for Implementation | |
| Responsible Organization | Village Engineer |
| Local Planning Mechanism | Hazard Mitigation |
| Potential Funding Sources | Municipal budget |
| Timeline for Completion | Short |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: 6/01/2017 Progress on Action/Project: Obtain most up-to-date FEMA data and compare with existing ordinances |

Action Number:

SN-9

Mitigation Action Name:

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

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

Action Number:

SN-10

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 | 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 Engineer |
| Local Planning Mechanism | Hazard Mitigation |
| Potential Funding Sources | Municipal budget |
| Timeline for Completion | DOF |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | Date: 6/01/2017 Progress on Action/Project: Unable to secure funding |

Action Number:

SN-10

Mitigation Action Name:

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

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

Action Number:

SN-11

Mitigation Action Name:

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

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

Action Number:

SN-11

Mitigation Action Name:

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

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

Action Number:

SN-12

Mitigation Action Name:

Critical facilities are vulnerable to the flood

| 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 hire consulting firm to work with the property owners to evaluate mitigation options - 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 most feasible and cost-effective action: elevate mechanicals; floodproof entry ways; install portable/mechanical flood walls; relocate facility. -Nyack Middle School -Nyack College -Salisbury Communication |
| 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 | Facility owners with Village Board support |
| Local Planning Mechanism | Hazard Mitigation, Public Education |
| Potential Funding Sources | Municipal budget |
| Timeline for Completion | Short |
| Reporting on Progress | |
| Date of Status Report/ Report of Progress | No progress, new action |

Action Number:

SN-12

Mitigation Action Name:

Critical facilities are vulnerable to the flood

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