

SECTION 9. JURISDICTIONAL ANNEXES

9.19 VILLAGE OF SPRING VALLEY

This jurisdictional annex to the Rockland County Hazard Mitigation Plan (HMP) provides information to assist public and private sectors in the Village of Spring Valley with reducing losses from future hazard events. This annex is not guidance of what to do when a disaster occurs; its focus is on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. The annex presents a general overview of the Village of Spring Valley, describes who participated in the planning process, assesses the Village’s risk, vulnerability, and capabilities, and outlines a strategy for achieving a more resilient community.

9.19.1 Hazard Mitigation Planning Team

The Village of Spring Valley identified primary and alternate HMP points of contact and developed this plan over the course of several months, with input from many Village departments. The office of Community Development represented the community on the Rockland County HMP Planning Partnership and Steering Committee and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

Table 9.19-1 summarizes Village officials who participated in the development of the annex and in what capacity. Additional documentation of the Village’s planning activities through Planning Partnership meetings is included in Volume I.

Table 9.19-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Adam McCarey / Village Commissioner Address: 200 N Main St Spring Valley NY, 10977 Phone Number: (845) 352-1100 Email: mjones@villagespringvalley.org	Name/Title: Raymond Canario / Building and Public Works Address: 200 N Main St Spring Valley NY, 10977 Phone Number: (845) 587-3953 Email: rcanario@villagespringvalley.org
National Flood Insurance Program Floodplain Administrator	
Name/Title: Raymond Canario / Building and Public Works Address: 200 N Main St Spring Valley NY, 10977 Phone Number: (845) 587-3953 Email: rcanario@villagespringvalley.org	
Additional Contributors	
Name/Title: Adam McCarey / Village Commissioner Method of Participation: Completed NFIP and hazard event history surveys; reviewed draft annex	
Name/Title: Raymond Canario / Building and Public Works Method of Participation: Reviewed draft annex; provided permit information	
Name/Title: Alan Simon / Mayor Method of Participation: Reviewed draft annex	
Name/Title: Matthew Jones/Department of Community Development Method of Participation: Participated in Risk Assessment and Mitigation Action workshops	

9.19.2 Municipal Profile

The Village of Spring Valley is located along the eastern border of the Village of Ramapo and in a small western portion of the Village of Clarkstown in Rockland County (Rockland County 2018). It is located north of Chestnut Ridge, east of Airmont and Monsey, south of Hillscrest, and west of Nanuet, and lies adjacent to the New York State Thruway (Village of Spring Valley n.d.). The Village is approximately 2.1 square miles in size.

Research has shown that some populations are at greater risk from hazard events because of decreased resources or physical abilities. These populations can be more susceptible to hazard events based on a number of factors including their physical and financial ability to react or respond during a hazard, and the location and construction quality of their housing. Data from the 2017-2021 American Community Survey indicates that 11.3 percent of the population is five years of age or younger, 9.6 percent is 65 years of age or older, 29.4 percent is non-English speaking, 24.2 percent is below the poverty threshold, and 8.3 percent is considered disabled.

9.19.3 Jurisdictional Capability Assessment and Integration

The Village of Spring Valley performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Volume I describes the components included in the capability assessment and their significance for hazard mitigation planning. The jurisdictional assessment for this annex includes analyses of the following:

- Planning and regulatory capabilities
- Development and permitting capabilities
- Administrative and technical capabilities
- Fiscal capabilities
- Education and outreach capabilities
- Classification under various community mitigation programs
- Adaptive capacity to withstand hazard events

For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into day-to-day local government operations. As part of the hazard mitigation analysis, planning and /policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress toward plan integration. Development of an updated mitigation strategy provided an opportunity for the Village of Spring Valley to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

Planning, Legal, and Regulatory Capability and Integration

Table 9.19-2 summarizes the regulatory tools that are available to Village of Spring Valley.

Table 9.19-2. Planning, Legal, and Regulatory Capability and Integration

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Codes, Ordinances, & Regulations				
Building Code	Yes	Chapter 82 Building Construction and Fire Prevention; New York State Uniform Fire Prevention and Building Code (Uniform Code)	State, Local	Spring Valley Building Department; Rockland County Building and Codes Department
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> This Board of Trustees of the Village of Spring Valley adopted the New York State Uniform Fire Prevention and Building Code as the official Building Construction Code for the Village of Spring Valley. The code will be enforced by for the Building Department of Village of Spring Valley, the Building Inspector, Deputy and Assistant Building Inspectors, Fire Inspectors, Deputy and Assistant Fire Inspectors, and Code Enforcement Officers. The County of Rockland’s Department of Building and Codes is responsible for the administration and enforcement of the New York State Uniform Fire Prevention and Building Code (Uniform Code) and the New York State Energy Conservation Construction Code (Energy Code) within the Village of Spring Valley.				
Zoning/Land Use Code	Yes	Chapter 255 Zoning	Local	Building Inspector
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> This chapter is adopted pursuant to § 7-700 of the Village Law for all the purposes set forth in § 7-704 of the Village Law, and all power and authority granted therein are hereby adopted in the interest, protection and promotion of the public health, safety and general welfare. The Zoning Code establishes a Floodplain Overlay District which contains the Special Flood Hazard Areas (SFHAs) within the Village. All uses which are normally allowed either by right or special permit in zoning districts covered by the Floodplain Overlay District are subject to additional special permit approval by the Floodplain Administrator. All construction or substantial improvement must meet several requirements, including being built at or above base flood elevation, and using flood-resistant material and utility equipment, among others.				
Subdivision Code	Yes	Chapter 232 Subdivision of Land	Local	Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> It is declared to be the policy of the Village Planning Board to consider land subdivisions as part of a plan for the orderly, efficient, and economical development of the village. Land to be subdivided shall be of such character that it can be used safely for building purposes without danger to health or peril from fire, flood, or other menace. Proper provision shall be made for drainage, water, sewerage, and other needed improvements. Streets shall be of such width, grade, and location as to accommodate the prospective traffic, to afford adequate light and air and to facilitate fire protection. In proper cases, there shall be reservation of park areas of suitable location, size and character for playground or other recreational purposes.				
Site Plan Code	Yes	Chapter 255 Zoning, Article X Site Development Plan and Architectural Review; Appearance Review Board	Local	Planning Board, Building Department
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> In considering and acting upon a site development plan, the Planning Board shall take into consideration the public health, safety and welfare, the comfort and convenience of the public in general and of the prospective occupants of the proposed development and of the immediate neighborhood. The Planning Board may prescribe appropriate conditions and safeguards to maintain elements of the Village’s character, including its natural environment, public safety, and reservation of land for parks.				
Stormwater Management Code	Yes	Chapter 222 Stormwater Management and Erosion and Sediment Control	Local	Stormwater Management Officer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The purpose of this chapter is to establish minimum stormwater management requirements and controls to protect and safeguard the general health, safety, and welfare of the public residing within this jurisdiction and to address the findings of fact in § 222-1 hereof.				
Post-Disaster Recovery/ Reconstruction Code	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Real Estate Disclosure	Yes	New York State (NYS) mandate, Property Condition Disclosure Act, NY Code – Article 14 §460-467	State, Local	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The NYS mandate requires sellers to disclose to potential buyers whether their property is located in a designated floodplain.				
Growth Management	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
N/A				
Environmental Protection Ordinance(s)	Yes	Chapter 130 Freshwater Wetlands	Local	Board of Trustees
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Freshwater Wetlands Protection Law of the Village of Spring Valley is declared to be the public policy of the Village of Spring Valley to preserve, protect and conserve freshwater wetlands and the benefits derived therefrom, to prevent the destruction of freshwater wetlands and to regulate the development of such wetlands in order to secure the natural benefits of freshwater wetlands, consistent with the general welfare and beneficial economic, social and agricultural development. It is further declared to be the policy of the Village of Spring Valley to exercise its authority pursuant to Article 24 of the State Environmental Conservation Law.				
Flood Damage Prevention Ordinance	Yes	Chapter 126 Flood Damage Prevention	Federal, State, Local	Building Inspector
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
It is the purpose of this chapter to promote the public health, safety and general welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed to regulate uses, properties, and development that are vulnerable to flood damage. New construction and substantial improvements in areas that have base flood elevation data must be built with one foot of freeboard. In areas without base flood elevation data, new construction and substantial improvements must be built with two feet of freeboard.				
Wellhead Protection	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
N/A				
Emergency Management Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
N/A				
Climate Change Ordinance	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
N/A				
Other: Freeboard	Yes	-	State, Local	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
New York State requires new one- and two-family residences to be built with two feet of freeboard and all other construction types with one foot of freeboard. New construction and substantial improvements in areas that have base flood elevation data must be built with one foot of freeboard. In areas without base flood elevation data, new construction and substantial improvements must be built with two feet of freeboard.				
Other: Cumulative Substantial Damage	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
N/A				
Planning Documents				
General/Comprehensive Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
N/A				

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Capital Improvement Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Disaster Debris Management Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Floodplain Management or Watershed Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Stormwater Management Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Open Space Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Urban Water Management Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Habitat Conservation Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Economic Development Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Community Wildfire Protection Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Community Forest Management Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Transportation Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Agriculture Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Climate Action/Resiliency/Sustainability Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Tourism Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				

	Jurisdiction has this? (Yes/No)	Citation and Date (code chapter or name of plan, date of enactment or plan adoption)	Authority (local, county, state, federal)	Responsible Person, Department or Agency
Business/ DownVillage Development Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Other (for example NYRCR, etc.)	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Response/Recovery Planning				
Comprehensive Emergency Management Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Continuity of Operations Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Substantial Damage Response Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Threat & Hazard Identification & Risk Assessment	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Post-Disaster Recovery Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Public Health Plan	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Other	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				

Development and Permitting Capability

Table 9.19-3 summarizes the capabilities of Village of Spring Valley to oversee and track development.

Table 9.19-3. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you issue development permits? <ul style="list-style-type: none"> If you issue development permits, what department is responsible? If you do not issue development permits, what is your process for tracking new development? 	Yes	The Rockland County Department of Buildings and Codes is responsible for the administration and enforcement of the New York State Uniform Fire Prevention and Building Code (Uniform Code) and the New York State Energy Conservation Construction Code (Energy Code) within the Village of Spring Valley.
Are permits tracked by hazard area? (For example, floodplain development permits.)	Yes	Floodplain development permits

Indicate if your jurisdiction implements the following	Yes/No	Comment:
Do you have a buildable land inventory? <ul style="list-style-type: none"> If you have a buildable land inventory, please describe 	No	-
Describe the level of build-out in your jurisdiction.	N/A	While the Village is primarily built out, there is a small area zoned specifically for Planned Residential Development in the eastern part of the Village bordering the Towns of Ramapo and Clarkstown.

Administrative and Technical Capability

Table 9.19-4 summarizes potential staff and personnel resources available to Village of Spring Valley and their current responsibilities that contribute to hazard mitigation.

Table 9.19-4. Administrative and Technical Capabilities

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<i>Administrative Capability</i>		
Planning Board	Yes	The Planning Board reviews all new development within the Village.
Zoning Board of Adjustment	Yes	Zoning Board of Appeals hears and decides appeals from the Village’s Building Inspector. The Building Inspector enforces the Zoning Ordinance and the ZBA is where those enforcement decisions may be appealed.
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	Yes	The Community Development division procures and administers federal and state grants and the building code.
Public Works/Highway Department	Yes	The Village of Spring Valley’s Public Works Department is tasked with various construction services, public services which includes parks maintenance, roadway maintenance (milling and paving), basin repair, heavy machinery operation snow removal and Vehicle Maintenance.
Construction/Building/Code Enforcement Department	Yes	The Rockland County Department of Buildings and Codes is responsible for the administration and enforcement of the New York State Uniform Fire Prevention and Building Code (Uniform Code) and the New York State Energy Conservation Construction Code (Energy Code) within the Village of Spring Valley.
Emergency Management/Public Safety Department	Yes	The Village of Spring Valley has a Police Department and an all-volunteer Fire Department.
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	Yes	The Village of Spring Valley’s Public Works Department is tasked with various construction services, public services which includes parks maintenance, roadway maintenance (milling and paving), basin repair, heavy machinery operation snow removal and Vehicle Maintenance.
Mutual aid agreements	Yes	Rockland County Fire Training Center
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
Other	No	-
<i>Technical/Staffing Capability</i>		
Planners or engineers with knowledge of land development and land management practices	Yes	Contracted Michael Kauker and Associates
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Environmental scientist familiar with natural hazards	No	-
Surveyor(s)	No	-
Emergency Manager	No	-
Grant writer(s)	Yes	Community Development
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

Fiscal Capability

Table 9.19-5 summarizes financial resources available to Village of Spring Valley.

Table 9.19-5. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	Yes, if necessary
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	No
Impact fees for homebuyers or developers of new development/homes	Yes
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	Yes
Other federal or state Funding Programs	Yes – Consolidated Local Street and Highway Improvement Program (CHIPs) through NYSDOT Extreme Winter Weather Funding – CHIPs Pave NY - CHIPs
Open Space Acquisition funding programs	Yes
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

Education and Outreach Capability

Table 9.19-6 summarizes the education and outreach resources available to Village of Spring Valley.

Table 9.19-6. Education and Outreach Capabilities

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	Yes	Contracted
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	Yes	The Village has Facebook and Twitter (X) pages which can be used for hazard mitigation education and outreach.
Citizen boards or commissions that address issues related to hazard mitigation	No	-
Warning systems for hazard events	Yes	The County utilizes NY-Alert and CodeRed (the backup to NY-Alert) for emergency notifications (all Villages and Villages have access to it).
Natural disaster/safety programs in place for schools	No	-
Organizations that conduct outreach to socially vulnerable populations and underserved populations	No	-
Does the jurisdiction have any public outreach mechanisms / programs in place to inform citizens on natural hazards, risk, and ways to protect themselves during such events?	Yes	See below.
If yes, please describe.	-	The Village uses their municipal website, flyers, etc. to inform citizens on natural hazards within the municipality.

Community Classifications

Table 9.19-7 summarizes classifications for community programs available to Village of Spring Valley.

Table 9.19-7. Community Classifications

Program	Participating? (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)*	Yes	4.5	-
New York State Department of Environmental Conservation (NYSDEC) Climate Smart Community	No	-	-
National Weather Service Storm Ready Certification	No	-	-
Firewise Communities classification	No	-	-
Other: Organizations with mitigation focus (advocacy group, non-government)	No	-	-

N/A = Not applicable

— = Unavailable

* = At the time of this plan update, the Village was unable to determine the date classified for the Public Protection (ISO Fire Protection Classes 1 to 10) program.

Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2022). Each jurisdiction has a unique combination of capabilities to adjust to, protect from, and withstand a future hazard event, future conditions, and changing risk. Table 9.19-8 summarizes the adaptive capacity for each identified hazard of concern and the Village’s capability to address related actions using the following classifications:

- Strong: Capacity exists and is in use.
- Moderate: Capacity might exist; but is not used or could use some improvement.
- Weak: Capacity does not exist or could use substantial improvement.

Table 9.19-8. Adaptive Capacity

Hazard	Adaptive Capacity - Strong/Moderate/Weak
Dam Failure	Moderate
Disease Outbreak	Moderate
Drought	Moderate
Earthquake	Moderate
Extreme Temperature	Moderate
Flood	Moderate
Landslide	Moderate
Severe Weather	Moderate
Severe Winter Weather	Moderate
Wildfire	Moderate

9.19.4 National Flood Insurance Program Compliance

This section provides specific information on the management and regulation of the regulatory floodplain, including current and future compliance with the National Flood Insurance Program (NFIP). The floodplain administrator listed in Table 9.19-1 is responsible for maintaining this information.

NFIP Summary

Table 9.19-9 summarizes the NFIP statistics for Village of Spring Valley.

Table 9.19-9. Village of Spring Valley NFIP Summary of Policy and Claim Statistics

# Policies	29
# Claims (Losses)	254
Total Loss Payments	\$1,469,991
# Repetitive Loss Properties (NFIP definition)	0
# Repetitive Loss Properties (FMA definition)	29
# Severe Repetitive Loss Properties	4
# Policies Within the 1 percent Annual Chance Flood Boundary	4

NFIP Definition of Repetitive Loss: The NFIP defines a repetitive loss property as any insurable building for which two or more claims of more than \$1,000 were paid by the NFIP within any rolling 10-year period since 1978.

FMA Definition of Repetitive Loss: FEMA’s Flood Mitigation Assistance (FMA) program defines a repetitive loss property as any insurable building that has incurred flood-related damage on two occasions, in which the cost of the repair, on average, equaled or exceeded 25 percent of the market value of the structure at the time of each such flood event.

Definition of Severe Repetitive Loss: A residential property covered under an NFIP flood insurance policy and: (a) That has at least four NFIP claim payments over \$5,000 each, and the cumulative amount of such claims payments exceeds \$20,000; or (b) For which at least two separate claims payments have been made with the cumulative amount of the building portion of such claims exceeding the market value of the building. At least two of the claims must have occurred within any 10-year period, more than 10 days apart.

Source: FEMA, December 2023

Note: RL count may include properties also identified as SRL.

Flood Vulnerability Summary

Table 9.19-10 provides a summary of the NFIP program in Village of Spring Valley.

Table 9.19-10. NFIP Summary

NFIP Topic	Comments
Flood Vulnerability Summary	
Describe areas prone to flooding in your jurisdiction.	Memorial Park, Twin Ave., Columbus Ave.
Do you maintain a list of properties that have been damaged by flooding?	No
Do you maintain a list of property owners interested in flood mitigation?	No
How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?	Noot applicable. A list is not maintained.
Are any RiskMAP projects currently underway in your jurisdiction? • If so, state what projects are underway.	No
How do you make Substantial Damage determinations? •	Code Enforcement Office
How many Substantial Damage determinations were declared for recent flood events in your jurisdiction?	None
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? • If there are mitigation properties, how were the projects funded?	Unknown
Do your flood hazard maps adequately address the flood risk within your jurisdiction? • If not, state why.	Yes

NFIP Topic	Comments
NFIP Compliance	
What local department is responsible for floodplain management?	Building Department
Are any certified floodplain managers on staff in your jurisdiction?	Yes
Do you have access to resources to determine possible future flooding conditions from climate change?	Yes
Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> If so, what type of assistance/training is needed? 	Yes - training, funding, staff.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Work off Cornell Cooperative Group
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	Plan review
What are the barriers to running an effective NFIP program in the community, if any?	Staffing and Money
Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> If so, state the violations. 	No
When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?	March 18, 2020
What is the local law number or municipal code of your flood damage prevention ordinance?	Chapter 126 Flood Damage Prevention
What is the date that your flood damage prevention ordinance was last amended?	2018
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> If exceeds, in what ways? 	Meets the minimum requirements
Are there other local ordinances, plans or programs (e.g., site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions?	Yes Article II
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	Yes

9.19.5 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to appreciating a jurisdiction’s overall risk to its hazards of concern. Recent and expected future development trends, including major residential/commercial development and major infrastructure development, are summarized in Table 9.19-11 through Table 9.19-13.

Table 9.19-11. Number of Building Permits for New Construction Issued Since the Previous HMP

	New Construction Permits Issued			Total
	Single Family	Multi-Family	Other (commercial, mixed-use, etc.)	
2019				
Total Permits	0	0	0	0
Permits within SFHA	0	0	0	0
2020				
Total Permits	0	0	0	0
Permits within SFHA	0	0	0	0
2021				
Total Permits	0	0	0	0
Permits within SFHA	0	0	0	0
2022				
Total Permits	0	0	0	164
Permits within SFHA	0	0	0	0
2023				
Total Permits	0	0	0	231
Permits within SFHA	0	0	0	0

SFHA = Special Flood Hazard Area (1 percent flood event)

Permit totals were not given for years 2019, 2020, or 2021.

Permit totals for 2022 and 2023 were not broken down by building type; permit total includes all building permits issued, not only for new construction.

Table 9.19-12. Recent Major Development and Infrastructure from 2018 to Present

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zone(s)*	Description / Status of Development
The Village has had no recent major development or infrastructure between 2018 to present.					

* Only location-specific hazard zones or vulnerabilities identified.

Table 9.19-13. Known or Anticipated Major Development and Infrastructure in the Next Five Years

Property or Development Name	Type of Development	# of Units / Structures	Location (address and/or block and lot)	Known Hazard Zone(s)*	Description / Status of Development
There are no known or anticipated major development of infrastructure in the Village in the next five years.					

* Only location-specific hazard zones or vulnerabilities identified.

9.19.6 Jurisdictional Risk Assessment

The hazard profiles in Volume I provide detailed information regarding each planning partner’s vulnerability to the identified hazards, including summaries of the Village of Spring Valley’s risk assessment results and data used to determine the hazard ranking. Key local risk assessment information is presented below.

Hazard Areas

Hazard area maps provided below illustrate the probable hazard areas impacted within the Village are shown in Figure 9.19-1 and Figure 9.19-2. These maps are based on the best available data at the time of the preparation of this plan and are adequate for planning purposes. Maps are provided only for hazards that can be identified clearly using mapping techniques and technologies and for which Spring Valley has significant exposure. The maps show the location of potential new development, where available.

Figure 9.19-1. Village of Spring Valley Flood and Dam Inundation Hazard Area Extent and Location

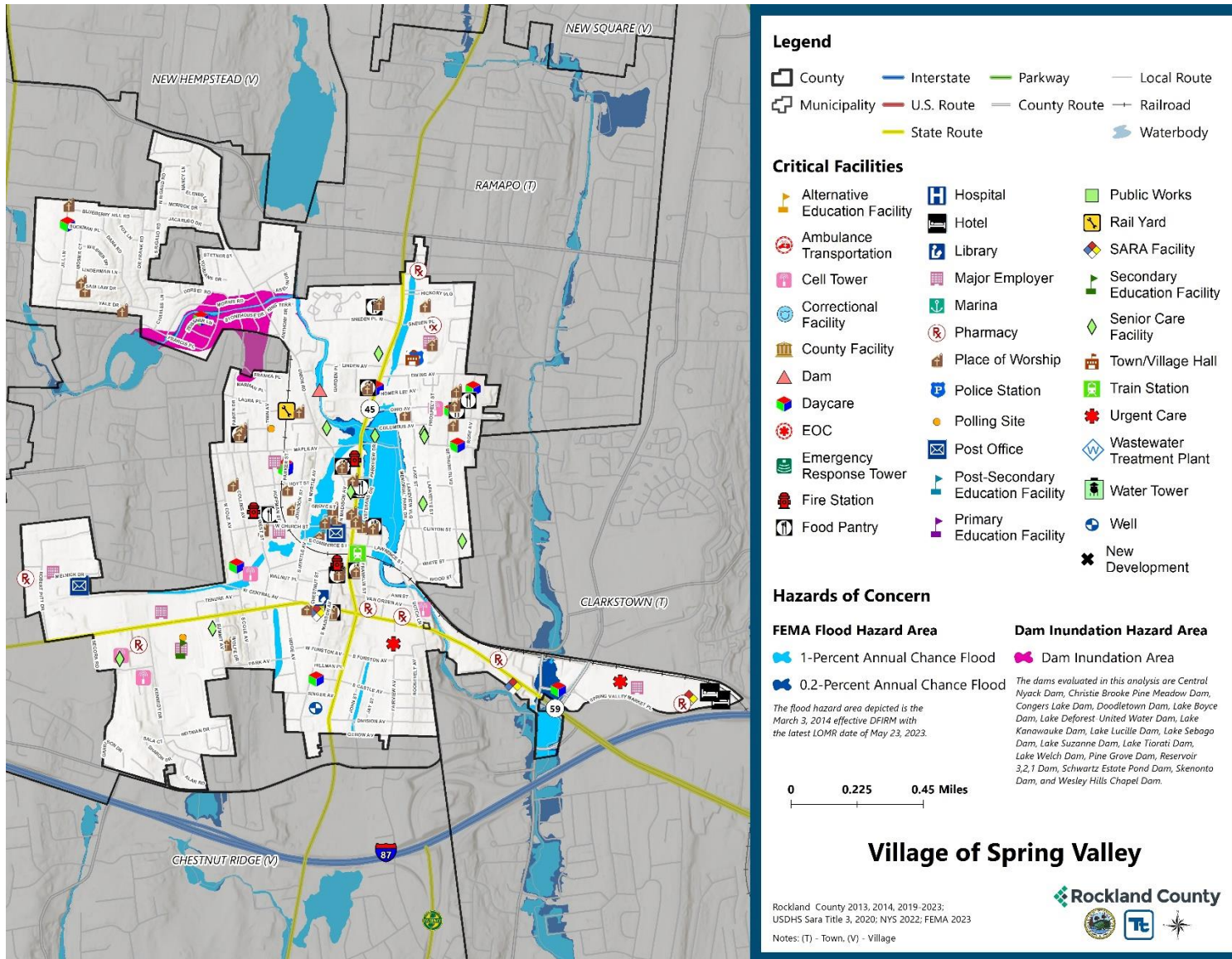
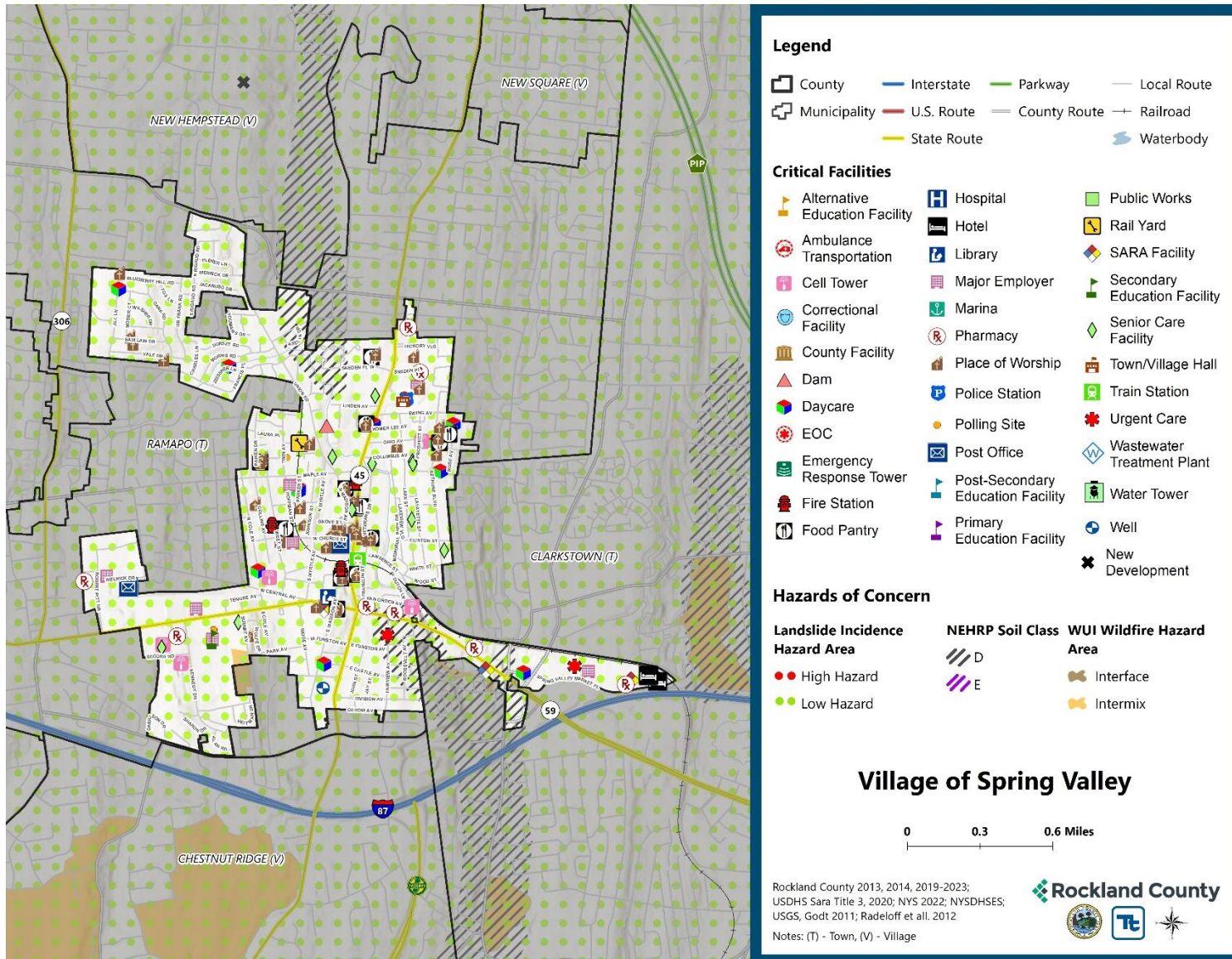


Figure 9.19-2. Village of Spring Valley Landslide, Earthquake, and Wildfire Hazard Area Extent and Location



Hazard Event History

The history of natural and non-natural hazard events in the Village of Spring Valley is detailed in Volume I, where each hazard profile includes a chronology of historical events that have affected the County and its municipalities. Table 9.19-14 provides details on loss and damage in the Village during hazard events since the last hazard mitigation plan update.

Table 9.19-14. Hazard Event History in the Village of Spring Valley

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Summary of Damage and Losses in the Village
Jan 20, 2020 - May 11, 2023	New York Covid-19 (3434-EM-NY, 4480-DR-NY)	Yes	The Covid-19 pandemic resulted in nationwide shutdowns, social distancing and masking requirements, and immunization efforts. Since the start of the pandemic, roughly 950 deaths have been reported in Rockland County. The federal Public Health Emergency expired in May 2023 but illness continues to occur as the virus shifts to becoming endemic.	The Village was shut down with limited essential staff only. Open to the public areas were closed.
August 4, 2020	New York Tropical Storm Isaias (4567-DR-NY)	Yes	The center of Isaias passed about 65 miles west of New York City at 3 pm on August 4, 2020. Tropical storm force winds extended well east of the center of circulation. In addition, 1 to 3 inches of rainfall, highest west, were recorded across the county. These types of winds and rainfall across the area resulted in numerous trees and tree limbs being downed, power outages, damages to homes and automobiles, and disruption to transit.	Major flooding in the area of Memorial park and Twin Ave.
August 21-24, 2021	New York Hurricane Henri (3565-EM-NY)	Yes	Rainfall from Tropical Storm Henri resulted in widespread flash flooding across southeastern New York, particularly portions of the Lower Hudson Valley. Rainfall totals generally ranged from 2-5 inches, with this rain coming in addition to the 2-5 inches that fell during the predecessor rainfall event the night before.	Major flooding in the area of Memorial Park and Twin Ave.
September 1-3, 2021	New York Remnants of Hurricane Ida (3572-EM-NY, 4615-DR-NY)	Yes	Extremely heavy rainfall associated with the remnants of Hurricane Ida overspread southeast New York during the evening of September 1 and continued through the early morning hours of September 2. Rainfall totals ranged from 5-8 inches across much of the region, with much of that rain falling in just a few hours. This resulted in widespread catastrophic flash flooding.	Major flooding in the area of Memorial Park and Twin Ave.
July 9-10, 2023	Severe Storm	No	Severe storms and flooding resulted in road closures, including portions of the Palisades Interstate Parkway, throughout Rockland County.	Major flooding in the area of Memorial Park and Twin Ave.

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

Hazard Ranking and Vulnerabilities

The hazard profiles in Volume I have detailed information regarding each planning partner’s vulnerability to the identified hazards. The following summarizes presents key risk assessment results for the Village of Spring Valley.

Hazard Ranking

The participating jurisdictions have differing degrees of vulnerability to the hazards of concern, so each jurisdiction ranked its own degree of risk to each hazard. The community-specific hazard ranking is based on problems and impacts identified by the risk assessment presented in Volume I. The ranking process involves an assessment of the likelihood of occurrence for each hazard; the potential impacts of the hazard on people, property, and the economy; community capabilities to address the hazard; and changing future climate conditions. Spring Valley reviewed the County hazard ranking and individual results to assess the relative risk of the hazards of concern to the community. During the review of the hazard ranking, the Village indicated that the rankings were accurate.

Table 9.19-15 shows Spring Valley’s final hazard rankings for identified hazards of concern. Mitigation action development uses the ranking to target hazards with the highest risk.

Table 9.19-15. Hazard Ranking

Hazard	Rank
Dam Failure	Low
Disease Outbreak	Medium
Drought	Medium
Earthquake	Low
Extreme Temperature	Medium
Flood	Medium
Landslide	Low
Severe Weather	High
Severe Winter Weather	High
Wildfire	Low

Note: The scale is based on the hazard rankings established in Volume I, modified as appropriate based on review by the jurisdiction

Critical Facilities

Table 9.19-16 identifies community critical facilities in the 1 percent and 0.2 percent annual chance floodplains.

Table 9.19-16. Critical Facilities Flood Vulnerability

Name	Type	Exposure		Addressed by Proposed Action	Already Protected to 0.2 percent Flood Level (describe protections)
		1 percent Event	0.2 percent Event		
Onderdonks Pond Dam	Dam	Yes	Yes	2024-Spring ValleyV-04	No
AT&T Wireless 102	Cell Tower	Yes	Yes	2024-Spring ValleyV-06	No
Rock Apostolic Church	Place of Worship	Yes	Yes	2024-Spring ValleyV-06	No
Church Of God of Spring Valley	Place of Worship	Yes	Yes	2024-Spring ValleyV-06	No
New Life Pentecostal Church	Place of Worship	Yes	Yes	2024-Spring ValleyV-06	No
Lakeview Village	Senior Care Facility	Yes	Yes	2024-Spring ValleyV-06	No

Source: Rockland County 2023, FEMA

The following high hazard dams are located in or could impact Village of Spring Valley:

- Lake Suzanne Dam – Rockland County Highway Department

Identified Issues

After review of the Village of Spring Valley hazard event history, hazard rankings, hazard location, and current capabilities, the Village of Spring Valley identified the following vulnerabilities within their community:

- The Village does not have any organizations that conduct outreach to socially vulnerable populations and underserved populations.
- There are flood prone roadways in the Village, including Memorial Park, Twin Avenue, and Columbus Avenue.
- The Village does not have a formalized list of damaged properties or property owners which may be interested in flood mitigation measures, such as elevation or acquisition.
- The Onderdonks Pond Dam, which is a critical infrastructure, is located in the 1- and 0.2-percent flood hazard areas. The Village also has potential impact from a high-hazard potential dam (Lake Suzanne Dam). These structures have the potential to impact those living nearby.
- There are repetitive loss properties in the Village. Repetitively flooded properties place an undue stress on the property owner and Village and efforts should be made to mitigate them.
- There are critical facilities in the Village which are located in the floodplain. 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.
- The bridge on Main St/Rt 45 at the base of Columbus Avenue is damaged and in need of updating.
- The current comprehensive plan does not incorporate hazard mitigation principles.
- The current emergency response plan does not include the functional-needs registry.
- The Village is not currently in the CRS program. The Village needs to identify whether joining the program will be beneficial to the community and its residents.

**This issue was identified as a specific area of concern based on resident response to the Rockland County Hazard Mitigation Citizen survey.*

9.19.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritizes actions to address over the next five years.

Past Mitigation Initiative Status

Table 9.19-17 indicates progress on the Village's mitigation strategy identified in the 2019 HMP. Actions that are still recommended but not completed or that are in progress are carried forward and combined with new actions as part of the mitigation strategy for this plan update. Previous actions that are now ongoing programs and capabilities are indicated as such and are presented in the capability assessment earlier in this annex.

Additional Mitigation Efforts

In addition to the mitigation initiatives completed in Table 9.19-17, Village of Spring Valley did not identify any mitigation efforts completed since the last HMP.

Table 9.19-17. Status of Previous Mitigation Actions

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2024 HMP or Discontinue 2. If including action in the 2024 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
V. Spring Valley-1	Flood Mitigation Measures	Flood, Severe Storm	NFIP Floodplain Administrator (FPA) and Village; with support from County, NYSDHSES, ISO, FEMA	<p>Repetitively flooded properties place an undue stress on the property owner and village and efforts should be made to mitigate them.</p> <p>Support the mitigation of vulnerable structures via retrofit or acquisition/relocation to protect structures from future damage, with Repetitive Loss (RL) and Severe Repetitive Loss (SRL) as a priority when applicable. Spring Valley's support shall include direct outreach to flood-prone property owners, specifically those identified by FEMA as RL/SRL or otherwise identified as flood-prone and working with interested and voluntary property owners to mitigate their properties based on available funding from FEMA and local (property owner) match availability.</p>	<p>1. No Progress 2. The Village was unable to complete this action due to other priorities.</p>	<p>1. Include 2. Keep as is 3. N/A</p>

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2024 HMP or Discontinue 2. If including action in the 2024 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
V. Spring Valley-2	Privately Owned Critical Facility in Floodplain	Flood	Private Owners with Village support	<p>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.</p> <p>The Village does not have jurisdiction over these facilities to mitigate. The Village will notify the facility manager/operator and 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”.</p>	<p>1. No Progress 2. The Village was unable to complete this action due to other priorities.</p>	<p>1. Include 2. Keep as is 3. N/A</p>

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2024 HMP or Discontinue 2. If including action in the 2024 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
V. Spring Valley-3	NFIP Compliance	Flood	NFIP Floodplain Administrator (FPA) and Village; with support from County, NYSDHSES, ISO, FEMA	Continue to maintain compliance with NFIP. Maintain compliance with and good standing in the NFIP including adoption and enforcement of floodplain management, floodplain identification and mapping, and flood insurance outreach to the community. Further meet and/or exceed the minimum NFIP standards and criteria through NFIP-related continued compliance actions.	1. Ongoing Capability 2. The Village maintains reviews of its NFIP Program to ensure compliance.	1. Discontinue 2. N/A 3. The Village maintains reviews of its NFIP Program to ensure compliance.
V. Spring Valley-4	Certified Floodplain Managers	Flood	Village/Village NFIP FPA	Floodplain management and ordinance enforcement staff are not Certified Floodplain Managers. Have local officials who would benefit, become a Certified Floodplain Manager (CFM) through the Association of State Floodplain Managers (ASFPM) and New York State Stormwater and Floodplain Managers Association (NYSSFMA), and pursue relevant continuing education training.	1. Discontinued 2. The Village’s consulting firm has CFMs.	1. Discontinue 2. N/A 3. The Village’s consulting firm has CFMs.

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2024 HMP or Discontinue 2. If including action in the 2024 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
V. Spring Valley-5	Replace Main St / Rt 45 Bridge	Severe Storm, Severe Winter Storm, Flood	Village DPW and NYSDOT	The bridge on Main St/Rt 45 at the base of Columbus Avenue is damaged and in need of updating. Work with NYSDOT to replace the bridge located on Main Street / Rt. 45 at the base of Columbus Avenue.	1. No Progress 2. The Village was unable to complete this action due to other priorities.	1. Include 2. Keep as is 3. N/A
V. Spring Valley-6	Comprehensive Plan Update	All Hazards	Village and Rockland County	Current comprehensive plan does not incorporate natural hazards. Work with municipalities to integrate hazard mitigation and hazard areas into local comprehensive plans; a courtesy review of draft plans by the County Planning Department.	1. No Progress 2. The Village was unable to complete this action due to other priorities.	1. Include 2. Keep as is 3. N/A
V. Spring Valley-7	Emergency Response Plan Update	All Hazards	Village and Rockland County	The current emergency response plan does not include the functional-needs registry. Work with Rockland County to obtain access to the functional-needs registry and enhance emergency response plans for the Village.	1. No Progress 2. The Village was unable to complete this action due to other priorities.	1. Include 2. Keep as is 3. N/A

Project Number	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Action Review 1. Status (In Progress, Ongoing Capability, No Progress, Complete) 2. Provide a narrative to describe progress or obstacles that have prevented implementation	Next Steps 1. Project to be included in the 2024 HMP or Discontinue 2. If including action in the 2024 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
V. Spring Valley-8	Flood Damage Prevention Ordinance Update, FEMA Regulations	Flood	Village and Village FPA	Some facilities were built before code updates; therefore, they may be more susceptible to damage from a hazard event. Update/revise floodplain management ordinance to comply with latest FEMA regulations using the updated maps for the Village.	1. Ongoing Capability 2. Codes and ordinances are reviewed continuously to identify room for amendments.	1. Discontinue 2. N/A 3. Ongoing capability. Codes and ordinances are reviewed continuously to identify room for amendments.
V. Spring Valley-9	Community Rating System	All Hazards	Village NFIP FPA, as fully supported by local government officials	The Village is not currently in the CRS program. The Village needs to identify whether joining the program will be beneficial to the community and its residents. Support participation in the NFIP Community Rating System (CRS) program by attending CRS workshop(s) if offered within the county. Join the CRS program if adequate resources to support long term participation can be dedicated.	1. No Progress 2. The Village was unable to complete this action due to other priorities.	1. Include 2. Keep as is 3. N/A

Proposed Hazard Mitigation Initiatives for the HMP Update

Spring Valley participated in the mitigation strategy workshop for this HMP to identify appropriate actions to include in a local hazard mitigation strategy. Its comprehensive consideration of all possible activities to address hazards of concern included review of the following FEMA documents:

- FEMA 551 “Selecting Appropriate Mitigation Measures for Floodprone Structures” (March 2007)
- FEMA “Mitigation Ideas—A Resource for Reducing Risk to Natural Hazards” (January 2013).

The action worksheets included at the end of this annex list the mitigation actions that Spring Valley would like to pursue in the future to reduce the effects of hazards. The actions 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 the Village’s priorities.

Table 9.19-18 indicates the range of proposed mitigation action categories. The four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table to further demonstrate the wide range of activities and mitigation measures selected.

Volume I identifies 14 evaluation criteria for prioritizing the mitigation actions. To assist with rating each mitigation action as high, medium, or low priority, a numeric rank is assigned (-1, 0, or 1) for each of the evaluation criteria. Table 9.19-19 provides a summary of the prioritization of all proposed mitigation actions for the HMP update.

Table 9.19-18. Analysis of Mitigation Actions by Hazard and Category

Hazard	Actions That Address the Hazard, by Action Category									
	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Dam Failure	3	-	-	1	3	-	1	-	-	1
Disease Outbreak	2	-	-	1	2	-	1	-	-	-
Drought	2	-	-	1	2	-	1	-	-	-
Earthquake	2	-	-	1	2	-	1	-	-	-
Extreme Temperature	2	-	-	1	2	-	1	-	-	-
Flood	4	3	-	2	4	3	2	-	3	-
Landslide	2	-	-	1	2	-	1	-	-	-
Severe Weather	3	1	-	1	3	2	1	-	1	-
Severe Winter Weather	2	1	-	1	2	1	1	-	1	-
Wildfire	2	-	-	1	2	-	1	-	-	-

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 structures to reduce the impact of hazards.

Natural Systems Protection (NSP)—These are actions that minimize damage and losses and 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

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 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 9.19-19. Summary of Prioritization of Actions

Project Number	Project Name	Life Safety	Property Protection	Cost-Effectiveness	Political	Legal	Fiscal	Environmental	Social Vulnerability	Administrative	Hazards of Concern	Climate Change	Timeline	Community Lifelines	Other Community Objectives	Total	High / Medium / Low
2024-Spring ValleyV-01	Socially Vulnerable Populations Outreach	1	0	1	1	1	1	0	1	1	1	1	1	1	1	12	High
2024-Spring ValleyV-02	Flood Prone Roadways	0	1	1	1	1	0	1	0	1	0	1	1	0	1	9	Medium
2024-Spring ValleyV-03	Flood Mitigation Interest	1	1	1	1	1	1	1	1	1	0	1	1	1	1	13	High
2024-Spring ValleyV-04	Dam Owner Partnership	1	1	1	1	1	1	0	1	1	1	1	1	1	0	12	High
2024-Spring ValleyV-05	Repetitive and Severe Repetitive Loss Properties	1	1	1	1	1	0	1	1	1	1	1	1	0	1	12	High
2024-Spring ValleyV-06	Critical Facilities in the Floodplain	1	1	1	1	1	0	0	1	1	0	1	1	1	0	10	Medium
2024-Spring ValleyV-07	Replace Main St / Rt 45 Bridge	0	1	1	1	0	0	0	1	1	1	1	0	1	0	8	Medium
2024-Spring ValleyV-08	Comprehensive Plan Update	1	1	1	1	1	1	0	1	1	1	0	1	0	1	11	High
2024-Spring ValleyV-09	Emergency Response Plan Update	1	1	1	1	1	1	0	1	1	1	0	1	0	1	11	High
2024-Spring ValleyV-10	Community Rating System (CRS) Program	0	1	1	1	1	1	0	1	1	0	1	1	0	1	10	Medium

Note: Volume I, Section 6 (Mitigation Strategy) conveys guidance on prioritizing mitigation actions. Low (0-6), Medium (7-10), High (11-14).

Action 2024-Spring ValleyV-01. Socially Vulnerable Populations Outreach

Action Name:	2024-Spring ValleyV-01. Socially Vulnerable Populations Outreach	
Description of the Problem:	The Village does not have any organizations that conduct outreach to socially vulnerable populations and underserved populations. During hazard events, the public may need to quickly access information about evacuation routes and shelters, or other steps they can take to protect themselves and their property. Residents may also need information about what services are available or offline due to flooding from intense precipitation, dam failure, severe storms, and snow melt; where to receive a vaccination or other healthcare in the event of a disease outbreak; public cooling or heat centers, such as libraries, during extreme temperatures; and evacuation areas for earthquakes, landslides, and wildfires. Socially vulnerable and underserved populations may rely on these types of services more heavily than other segments on the population. Furthermore, they may be less able to access these resources due to a variety of potential obstacles, such as mobility issues or language barriers.	
Hazard(s) of Concern: <i>Check all that apply</i>	<input checked="" type="checkbox"/> Dam/Levee Failure <input checked="" type="checkbox"/> Disease Outbreak <input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature	<input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Landslide <input checked="" type="checkbox"/> Severe Storm <input checked="" type="checkbox"/> Severe Winter Storm <input checked="" type="checkbox"/> Wildfire
Description of the Solution:	Create outreach materials, or utilize those from Rockland County, on hazard risks for socially vulnerable populations. Methods of distribution may include Village events, the Village newsletters, social media, the Village website, and having the materials on display for the public at Village libraries and offices. Consider hiring staff to work directly with socially vulnerable populations.	
Lead Agency:	Village Administration	
Supporting Agencies:	Rockland County	
Estimated Cost:	Low	
Potential Funding Sources:	Village Budget, HMGP	
Implementation Timeline:	Within 3 years	
Goals Met:	1, 3, 5	
Benefits:	This action will ensure there is an individual working to identify and work with the socially vulnerable populations in the Village. Furthermore, this action will create opportunities to educate and inform populations on hazard risks.	
Mitigation Action Type: <i>Check all that apply</i>	<input type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input checked="" type="checkbox"/> Education and Awareness Programs (EAP)
CRS Category: <i>Check all that apply</i>	<input type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input checked="" type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)
Impact on Socially Vulnerable Populations:	Socially vulnerable populations in the Village will become educated on hazards risks. The Village will identify an individual to identify and work with these populations to ensure the most up to date information is being shared.	
Impact on Critical Facilities/Lifelines:	Educating populations on hazard risk and how to mitigate the risks can decrease the demand on utilities and emergency services including health and medical, law enforcement, and search and rescue.	
Impact on Capabilities	This action would build upon the Village’s already existing public education and outreach program.	

Impact on Future Development:	Not applicable		
Climate Change Considerations:	Climate change is likely to increase the intensity and frequency of many climate related disaster events. This action will inform residents and business owners of how to reduce risk from hazards and how climate change may exacerbate those risks.		
Priority: Check one	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives	Action	Evaluation	
	No action	Current methods remain the only ones used	
	Rely on state or federal resources	Resources may be generalized and not specific to the risks in the Village	
	Use only a few methods for distribution	Using only a few methods of distribution may hinder socially vulnerable populations from receiving the guidance	

Action 2024-Spring ValleyV-02. Flood Prone Roadways

Action Name:	2024-Spring ValleyV-02. Flood Prone Roadways		
Description of the Problem:	The Village has identified several flood prone roadways in the Village, including Memorial Park, Twin Avenue, and Columbus Avenue, that repeatedly flood due to intense precipitation from severe storms.		
Hazard(s) of Concern: <i>Check all that apply</i>	<input type="checkbox"/> Dam/Levee Failure <input type="checkbox"/> Disease Outbreak <input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature	<input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input checked="" type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Wildfire	
Description of the Solution:	The Village will develop specific mitigation solutions for flood prone road systems (roads, bridges, intersections, drainage, etc.) under the leadership of County DPW.		
Lead Agency:	Village Public Works		
Supporting Agencies:	County Public Works		
Estimated Cost:	Medium		
Potential Funding Sources:	FEMA BRIC, HMGP, Village Budget		
Implementation Timeline:	Within 5 years		
Goals Met:	2		
Benefits:	This action will identify measures to protect infrastructure in the transportation lifeline, which will lead to the assurance of clear roadways for evacuations, regular travel, and emergency responses.		
Mitigation Action Type: <i>Check all that apply</i>	<input checked="" type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category: <i>Check all that apply</i>	<input checked="" type="checkbox"/> Preventative Measures (PR) <input checked="" type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)	
Impact on Socially Vulnerable Populations:	This action will assist socially vulnerable populations whose properties are impacted by flooding along flood prone roads.		
Impact on Critical Facilities/Lifelines:	This action will identify measures to protect infrastructure in the transportation lifeline, which will lead to the assurance of clear roadways for evacuations, regular travel, and emergency responses.		
Impact on Capabilities	Not applicable		
Impact on Future Development:	Future development in the impacted area will be less likely to be flooded.		
Climate Change Considerations:	A warmer atmosphere means storms have the potential to be more intense and occur more often, including increased periods of intense rain events.		
Priority: <i>Check one</i>	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Low

Alternatives	Action	Evaluation
	No action	Current problem continues
	Relocate all flood prone road system	Not feasible
	Raise all flood prone roads	Cost prohibitive

Action 2024-Spring ValleyV-03. Flood Mitigation Interest

Action Name:	2024-Spring ValleyV-03. Flood Mitigation Interest	
Description of the Problem:	The Village does not have a formalized list of damaged properties or property owners which may be interested in flood mitigation measures, such as elevation or acquisition. Without this information, the Village does not have a streamlined way to assess overall trends in damages/impacts to these properties to determine properties of the highest risk of flood damage. It also does not track communications with property owners or the implementation or interest in potential mitigation efforts.	
Hazard(s) of Concern: <i>Check all that apply</i>	<input type="checkbox"/> Dam/Levee Failure <input type="checkbox"/> Disease Outbreak <input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature	<input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Wildfire
Description of the Solution:	The Floodplain Administration will develop a list for inventorying system or properties damaged by flood events and property owners who are interested in flood mitigation measures, such as elevation or acquisition.	
Lead Agency:	Floodplain Administrator	
Supporting Agencies:	Planning Board, Zoning Board, Village Administration	
Estimated Cost:	Staff time, Low	
Potential Funding Sources:	Village Budget	
Implementation Timeline:	Within 2 years	
Goals Met:	1, 2, 3, 5	
Benefits:	Keeping a list of damaged properties and property owners interested in flood mitigation efforts may lead to the elimination of flood damage to homes and residences, which creating an open space for the municipality and increasing flood storage.	
Mitigation Action Type: <i>Check all that apply</i>	<input checked="" type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)
CRS Category: <i>Check all that apply</i>	<input checked="" type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)
Impact on Socially Vulnerable Populations:	Collecting data regarding homeowners that reside within flood prone areas provides an opportunity to introduce location-specific opportunities for assistance. Removing homes from the floodplain immediately removes the risk to life and property.	
Impact on Critical Facilities/Lifelines:	Removing structures from the floodplain decreases the demand on utilities and emergency services including health and medical, law enforcement, and search and rescue.	

Impact on Capabilities	This action will create a new Village capability, while enhancing its current NFIP capabilities.		
Impact on Future Development:	Increased outreach to homeowners within a flood prone area will limit construction in areas that are prone to hazard events. Homes may be acquired, which will remove those structures from the floodplain and prevent future development on those sites.		
Climate Change Considerations:	A warmer atmosphere means storms have the potential to be more intense and occur more often, including increased periods of intense rain events. Areas experiencing flooding conditions may increase. Removing structures from the floodplain will reduce the response and recovery costs as a result of these events and decrease the loss of human life as a result of these events. Elevating structures will reduce the recovery costs as a result of these events.		
Priority: <i>Check one</i>	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives	Action		Evaluation
	No action		Current problem remains
	Only share opportunities when notified of grant funding		May not be enough time to garner interest or write application
	Wait for information from the State on flood-damaged properties		May be a delay in notice

Action 2024-Spring ValleyV-04. Dam Owner Partnership

Action Name:	2024-Spring ValleyV-04. Dam Owner Partnership	
Description of the Problem:	The Onderdonks Pond Dam, which is a critical facility, is located in the 1- and 0.2-percent flood hazard areas that contain or are adjacent to existing residential areas. The Village also has potential impact from a high-hazard potential dam (Lake Suzanne Dam) located outside of its boundaries. The municipality does not own all the dams in its jurisdictions and cannot itself implement mitigation actions to the structures.	
Hazard(s) of Concern: <i>Check all that apply</i>	<input checked="" type="checkbox"/> Dam/Levee Failure <input type="checkbox"/> Disease Outbreak <input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature	<input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Wildfire
Description of the Solution:	Work with the owners of the dams to ensure inspections and safety procedures are up to date. Identify mitigation actions to ensure the integrity of the dams and that it is protected up to the 0.2-percent flood hazard area.	
Lead Agency:	Village Administration	
Supporting Agencies:	Dam Owners, NYSDEC	
Estimated Cost:	Low	
Potential Funding Sources:	Village Budget	
Implementation Timeline:	Within 5 years	
Goals Met:	1, 2, 3, 5	

Benefits:	This action will improve the safety and security of those who live within the dam inundation areas of the dams and increase the resilience of responding agencies. It will also increase communication between the municipality and the dam owners, which can be important during hazard events or other emergencies.		
Mitigation Action Type: <i>Check all that apply</i>	<input checked="" type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category: <i>Check all that apply</i>	<input checked="" type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input checked="" type="checkbox"/> Emergency Services (ES)	
Impact on Socially Vulnerable Populations:	The action will result in better preparedness within the Special Flood Hazard Area and inundation areas where significant risk to socially vulnerable populations exists.		
Impact on Critical Facilities/Lifelines:	Dams are considered a critical facility. This action will create an understanding of the safety procedures in place for each identified dam.		
Impact on Capabilities	This action will improve planning and response capabilities through the understanding of responsibilities and procedures.		
Impact on Future Development:	Depending on the result of this partnership, future development near the dams may be provided with better protection from dam failure events due to improved procedures and communication, as well as any physical improvements to the structures.		
Climate Change Considerations:	Climate change may result in an increase in the frequency and severity of weather-related disaster events, which may contribute to the likelihood of a dam failure event. This action will increase the capabilities to respond to these events.		
Priority: <i>Check one</i>	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives	Action		Evaluation
	No Action		Village will be unaware of any safety concerns for the dam or its condition
	Utilize information from NYSDEC		Owners may not be required to submit a safety plan to the State
	Utilize information from the National Inventory of Dams		Not all dams are listed on the inventory

Action 2024-Spring ValleyV-05. Repetitive and Severe Repetitive Loss Properties

Action Name:	2024-Spring ValleyV-05. Repetitive and Severe Repetitive Loss Properties		
Description of the Problem:	There are 29 Repetitive Loss and four Severe Repetitive Loss properties in the Village. These properties exhibit elevated vulnerability and may face increasing risks to flood damage due to changes in precipitation intensity and frequency, raising the possibility for these properties to become Repetitive/Severe Repetitive Loss Properties. These properties may require a disproportionate amount of municipal resources after hazard events if they are damaged.		
Hazard(s) of Concern: <i>Check all that apply</i>	<input type="checkbox"/> Dam/Levee Failure <input type="checkbox"/> Disease Outbreak <input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature	<input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Wildfire	
Description of the Solution:	The Village will promote and support non-structural flood hazard mitigation alternatives for at risk properties within the floodplain, including those that have been identified as Repetitive Loss (RL) and Severe Repetitive Loss (SRL), such as acquisition/relocation or elevation depending on feasibility. The parameters for this initiative would be funding, benefits versus cost, and willing participation of property owners.		

Lead Agency:	Floodplain Administrator		
Supporting Agencies:	Rockland County		
Estimated Cost:	Medium		
Potential Funding Sources:	FEMA FMA, FMA SWIFT, Village Budget, County Budget, Property Owners		
Implementation Timeline:	3 years		
Goals Met:	1, 2, 3		
Benefits:	This action would foster comprehensive floodplain management by removing at risk properties from the flood hazard area or elevating properties to reduce the flood risk.		
Mitigation Action Type: <i>Check all that apply</i>	<input type="checkbox"/> Local Plans and Regulations (LPR)	<input type="checkbox"/> Natural Systems Protection (NSP)	
	<input checked="" type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category: <i>Check all that apply</i>	<input type="checkbox"/> Preventative Measures (PR)	<input type="checkbox"/> Natural Resource Protection (NR)	
	<input checked="" type="checkbox"/> Property Protection (PP)	<input checked="" type="checkbox"/> Structural Flood Control Projects (SP)	
	<input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Emergency Services (ES)	
Impact on Socially Vulnerable Populations:	Socially vulnerable populations may be able to have houses elevated or acquired when it would otherwise be unaffordable.		
Impact on Critical Facilities/Lifelines:	Removing structures from the floodplain decreases the demand on utilities and emergency services including health and medical, law enforcement, and search and rescue.		
Impact on Capabilities	This action will enhance the Village’s current NFIP capabilities.		
Impact on Future Development:	Increased outreach to homeowners within a flood prone area will limit construction in areas that are prone to hazard events. Homes may be acquired, which will remove those structures from the floodplain and prevent future development on those sites.		
Climate Change Considerations:	A warmer atmosphere means storms have the potential to be more intense and occur more often, including increased periods of intense rain events.		
Priority: <i>Check one</i>	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives	Action		Evaluation
	No action		Current problem continues
	Construct flood walls/barriers around vulnerable areas		Costly and can divert floodwaters to other areas
	Deployable flood barriers for vulnerable areas		Requires a great deal of work to implement prior to each event

Action 2024-Spring ValleyV-06. Critical Facilities in the Floodplain

Action Name:	2024-Spring ValleyV-06. Critical Facilities in the Floodplain
Description of the Problem:	There are multiple critical facilities in the Village located in the floodplain. These facilities are exposed to flood events and may be vulnerable to damage, service interruptions, or other adverse impacts during or following a flood. The municipality does not own all the facilities in its jurisdictions and cannot itself implement mitigation actions to the structures

Hazard(s) of Concern: <i>Check all that apply</i>	<input type="checkbox"/> Dam/Levee Failure <input type="checkbox"/> Disease Outbreak <input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature	<input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Wildfire
Description of the Solution:	Coordinate with the facility managers at AT&T Wireless, Rock Apostolic Church, Church Of God Of Spring Valley, New Life Pentecostal Church, and Lakeview Village Senior Care Facility to support the mitigation of vulnerable structures via retrofit (e.g. elevation, flood-proofing) or relocation to protect structures from future damage. Phase 1: Identify most cost-effective mitigation option Phase 2: Work with facility manager to implement selected action based on available funding and local match ability.	
Lead Agency:	Floodplain Administrator	
Supporting Agencies:	Village Administration, Facility Managers	
Estimated Cost:	High	
Potential Funding Sources:	FEMA BRIC, HMGP, Village Budget, Private Owners	
Implementation Timeline:	5 years	
Goals Met:	1, 2, 3	
Benefits:	This action will remove or reduce critical facility and community lifeline vulnerability to the flood hazard and remove or reduce safety risks for first responders.	
Mitigation Action Type: <i>Check all that apply</i>	<input type="checkbox"/> Local Plans and Regulations (LPR) <input checked="" type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)
CRS Category: <i>Check all that apply</i>	<input type="checkbox"/> Preventative Measures (PR) <input checked="" type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input checked="" type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)
Impact on Socially Vulnerable Populations:	Retrofitting or relocating the identified structures will benefit socially vulnerable populations, as individuals within these populations rely on resources from various government facilities, transportation facilities, and medical and senior care facilities.	
Impact on Critical Facilities/Lifelines:	Noting the number of facilities located within the flood hazard area may encourage the consideration of relocating critical facilities and lifelines from the flood hazard area and deter the development of any additional facilities in the flood hazard area.	
Impact on Capabilities	This action will enhance the Village’s current NFIP capabilities.	
Impact on Future Development:	Noting the number of facilities located within the flood hazard area may encourage the consideration of relocating critical facilities and lifelines from the flood hazard area and deter the development of any additional facilities in the flood hazard area.	
Climate Change Considerations:	A warmer atmosphere means storms have the potential to be more intense and occur more often, including increased periods of intense rain events. As sea level rises due to climate change, the area of the flood hazard may expand.	
Priority: <i>Check one</i>	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Medium
		<input type="checkbox"/> Low

Alternatives	Action	Evaluation
	No action	Current problem continues
	Floodproof existing structures	May not necessarily reduce risk
	Construct floodwalls to stop flood issues	Will most likely interrupt natural floodplain function

Action 2024-Spring ValleyV-07. Replace Main St / Rt 45 Bridge

Action Name:	2024-Spring ValleyV-07. Replace Main St / Rt 45 Bridge	
Description of the Problem:	The bridge on Main St/Rt 45 at the base of Columbus Avenue is damaged and vulnerable to flooding from precipitation from severe storms and severe winter storms. Due to the damage, the bridge faces an elevated risk of compound events or failures occurring during a flood event.	
Hazard(s) of Concern: <i>Check all that apply</i>	<input type="checkbox"/> Dam/Levee Failure <input type="checkbox"/> Disease Outbreak <input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature	<input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input checked="" type="checkbox"/> Severe Storm <input checked="" type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Wildfire
Description of the Solution:	Work with NYS DOT to update the bridge to remove damages, located on Main Street / Rt. 45 at the base of Columbus Avenue.	
Lead Agency:	Village Public Works	
Supporting Agencies:	Rockland County, NYS DOT	
Estimated Cost:	High	
Potential Funding Sources:	FEMA BRIC, HMGP, Village Budget, State Budget, BridgeNY	
Implementation Timeline:	5+ years	
Goals Met:	2, 5	
Benefits:	This action will ensure infrastructure will be protected from future hazard damages and that at least a single transportation route remains accessible to the community.	
Mitigation Action Type: <i>Check all that apply</i>	<input type="checkbox"/> Local Plans and Regulations (LPR) <input checked="" type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)
CRS Category: <i>Check all that apply</i>	<input type="checkbox"/> Preventative Measures (PR) <input checked="" type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input checked="" type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)
Impact on Socially Vulnerable Populations:	Not applicable	
Impact on Critical Facilities/Lifelines:	This action ensures transportation routes remain open and accessible to the public for daily use and evacuation needs. The action also provides a point of access for first responders into communities that may have faced damage from a hazard event on either side of the bridge.	
Impact on Capabilities	Increases community resiliency to flooding events in vulnerable areas that would normally be vulnerable to prolonged isolation after high-water events.	
Impact on Future Development:	This action will ensure the bridge is operable for use should future development bring in additional residents and/or visitors.	

Climate Change Considerations:	Ensure the bridge structure is impervious to erosion at its base due to rising water levels.		
Priority: <i>Check one</i>	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives	Action		Evaluation
	No action		Current problem remains
	Remove bridge		Loss of a transportation route
	Rebuild bridge		Cost prohibitive

Action 2024-Spring ValleyV-08. Comprehensive Plan Update

Action Name:	2024-Spring ValleyV-08. Comprehensive Plan Update	
Description of the Problem:	The current comprehensive plan does not incorporate hazard mitigation principles and does not have a strategy to streamline the consideration of the following hazards into its future development and growth: dam/levee failure, disease outbreak, drought, earthquake, extreme temperature, flood, landslide, severe storm, severe winter storm, or wildfire.	
Hazard(s) of Concern: <i>Check all that apply</i>	<input checked="" type="checkbox"/> Dam/Levee Failure <input checked="" type="checkbox"/> Disease Outbreak <input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature	<input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Landslide <input checked="" type="checkbox"/> Severe Storm <input checked="" type="checkbox"/> Severe Winter Storm <input checked="" type="checkbox"/> Wildfire
Description of the Solution:	The Village will update its comprehensive plan. Ensure that the local comprehensive plan incorporates hazard mitigation techniques through a courtesy review or draft plans by the County Planning Department.	
Lead Agency:	Village Planning Board	
Supporting Agencies:	Village Administration, Rockland County	
Estimated Cost:	Staff time, Low	
Potential Funding Sources:	Village Budget	
Implementation Timeline:	Within 5 years	
Goals Met:	1, 2, 5, 6, 7	
Benefits:	This action will have the Village update its comprehensive plan, which has not been updated in many years. The integration of hazard mitigation principles will present the opportunity for the Village to identify areas of the Village which may be impacted by hazards and plan for future land use accordingly.	
Mitigation Action Type: <i>Check all that apply</i>	<input checked="" type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)
CRS Category: <i>Check all that apply</i>	<input checked="" type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)
Impact on Socially Vulnerable Populations:	The inclusion of hazard mitigation principles into the comprehensive plan may include discussions on how hazard risks may impact socially vulnerable populations in the Village.	

Impact on Critical Facilities/Lifelines:	Updating the comprehensive plan to include hazard mitigation principles may present an opportunity to discuss hazard risks to critical facilities and lifelines in the Village.		
Impact on Capabilities	This action will update an already existing planning capability of the Village, making it more resilient.		
Impact on Future Development:	This action will have a direct impact on future land use in the Village, as the comprehensive plan guides land use principles in the Village.		
Climate Change Considerations:	As impacts from climate change are increasingly felt, the contents in the Village’s comprehensive plan will need to be updated.		
Priority: <i>Check one</i>	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives	Action		Evaluation
	No action		Current problem remains
	Integrate hazard mitigation principles in only plan elements		The plan will miss integration opportunities in the comprehensive plan main document
	Integrate hazard mitigation principles in only comprehensive plan main document		The plan will miss integration opportunities in the plan elements

Action 2024-Spring ValleyV-09. Emergency Response Plan Update

Action Name:	2024-Spring ValleyV-09. Emergency Response Plan Update	
Description of the Problem:	Individuals may require additional or different support and resources to be able to implement the Village’s emergency response plan. For instance, individuals that have mobility issues or depend on medical equipment may be unable to evacuate on their own during a dam/levee failure, earthquakes, flood, landslide, landslide, severe winter storm, or wildfire. Those with underlying medical conditions may require additional protective and precautionary measures to mitigate the risks from disease outbreaks, droughts, and extreme temperatures.	
Hazard(s) of Concern: <i>Check all that apply</i>	<input checked="" type="checkbox"/> Dam/Levee Failure <input checked="" type="checkbox"/> Disease Outbreak <input checked="" type="checkbox"/> Drought <input checked="" type="checkbox"/> Earthquake <input checked="" type="checkbox"/> Extreme Temperature	<input checked="" type="checkbox"/> Flood <input checked="" type="checkbox"/> Landslide <input checked="" type="checkbox"/> Severe Storm <input checked="" type="checkbox"/> Severe Winter Storm <input checked="" type="checkbox"/> Wildfire
Description of the Solution:	Work with Rockland County to obtain access to the functional-needs registry to use as part of the Village’s emergency response plan.	
Lead Agency:	Community Development	
Supporting Agencies:	Rockland County	
Estimated Cost:	Low	
Potential Funding Sources:	Village Budget	
Implementation Timeline:	1 year	
Goals Met:	1, 3, 5	
Benefits:	The Village will have the location of registered members of the socially vulnerable population as well as any emergency or medical information the registrant was willing to share.	

Mitigation Action Type: <i>Check all that apply</i>	<input checked="" type="checkbox"/> Local Plans and Regulations (LPR) <input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Systems Protection (NSP) <input type="checkbox"/> Education and Awareness Programs (EAP)
CRS Category: <i>Check all that apply</i>	<input checked="" type="checkbox"/> Preventative Measures (PR) <input type="checkbox"/> Property Protection (PP) <input type="checkbox"/> Public Information (PI)	<input type="checkbox"/> Natural Resource Protection (NR) <input type="checkbox"/> Structural Flood Control Projects (SP) <input type="checkbox"/> Emergency Services (ES)
Impact on Socially Vulnerable Populations:	Socially vulnerable populations are able to register to the functional-needs registry to have important emergency and medical information stored in a secure system for first responders.	
Impact on Critical Facilities/Lifelines:	This action allows first responders to understand the emergency and medical needs of registered individuals should assistance be needed.	
Impact on Capabilities	This action will update an already existing planning capability of the Village.	
Impact on Future Development:	Future development will be protected by the Emergency Response Plan.	
Climate Change Considerations:	As impacts from climate change are increasingly felt, the contents in an Emergency Response Plan, including in the basic plan and any annexes, may need to be updated.	
Priority: <i>Check one</i>	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Medium <input type="checkbox"/> Low
Alternatives	Action	Evaluation
	No action	Vulnerable populations will remain unknown
	Do not download information	Population information will not be available to the Village
	Create new system	Cost and start-up restraints

Action 2024-Spring ValleyV-10. Community Rating System (CRS) Program

Action Name:	2024-Spring ValleyV-10. Community Rating System (CRS) Program
Description of the Problem:	The Village is not currently in the CRS program. The Village needs to identify whether joining the program will be beneficial to the community and its residents.
Hazard(s) of Concern: <i>Check all that apply</i>	<input type="checkbox"/> Dam/Levee Failure <input type="checkbox"/> Disease Outbreak <input type="checkbox"/> Drought <input type="checkbox"/> Earthquake <input type="checkbox"/> Extreme Temperature <input checked="" type="checkbox"/> Flood <input type="checkbox"/> Landslide <input type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Wildfire
Description of the Solution:	The Village will evaluate the benefits and costs of participating in CRS program. If feasible, the Village will join the program and begin implementing standards that exceed NFIP requirements.
Lead Agency:	Floodplain Administrator
Supporting Agencies:	Village Administrator
Estimated Cost:	Low
Potential Funding Sources:	Village Budget
Implementation Timeline:	2 years
Goals Met:	2, 3, 5

Benefits:	The participation in the CRS benefits communities by offering discounted rates for flood insurance premiums, which addresses the three goals of the program: reduce and avoid flood damage to insurable property, strengthen and support the insurance aspects of the National Flood Insurance Program, and foster comprehensive floodplain management.		
Mitigation Action Type: <i>Check all that apply</i>	<input type="checkbox"/> Local Plans and Regulations (LPR)	<input type="checkbox"/> Natural Systems Protection (NSP)	<input checked="" type="checkbox"/> Education and Awareness Programs (EAP)
CRS Category: <i>Check all that apply</i>	<input type="checkbox"/> Structure and Infrastructure Project (SIP)	<input type="checkbox"/> Natural Resource Protection (NR)	<input type="checkbox"/> Structural Flood Control Projects (SP)
Impact on Socially Vulnerable Populations:	<input type="checkbox"/> Preventative Measures (PR)	<input type="checkbox"/> Emergency Services (ES)	
Impact on Critical Facilities/Lifelines:	<input type="checkbox"/> Property Protection (PP)	The participation in the Community Rating System (CRS) benefits communities by offering discounted rates for flood insurance premiums, which may be more affordable for some socially vulnerable populations.	
Impact on Capabilities	<input checked="" type="checkbox"/> Public Information (PI)	Not applicable	
Impact on Future Development:	This action would enhance the Village’s floodplain management capabilities.		
Climate Change Considerations:	Future development would need to adhere to any increased standards established as part of joining the CRS program such as increased freeboard and elevation certificate requirements.		
Priority: <i>Check one</i>	A warmer atmosphere means storms have the potential to be more intense and occur more often, including increased periods of intense rain events. These changes are likely to increase flood risks.		
Alternatives	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Low
	Action	Evaluation	
	No action	-	
	Adopt aspects of the CRS program into the floodplain management program	Increased floodplain management capabilities but no reduction in flood insurance premiums	
	Abandon any floodplain management practices not required by NFIP	Reduction in floodplain management capabilities and increase in risk.	