

SECTION 9. JURISDICTIONAL ANNEXES

9.5 VILLAGE OF GRAND VIEW-ON-HUDSON

This jurisdictional annex to the Rockland County Hazard Mitigation Plan (HMP) provides information to assist public and private sectors in the Village of Grand View-on-Hudson 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 Grand View-on-Hudson, 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.

9.5.1 Hazard Mitigation Planning Team

The Village of Grand View-on-Hudson 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 Village Clerk 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 9.5-1 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 9.5-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Julie Pagliaroli, Village Clerk Address: 151 River Road; Grand View-On-Hudson, NY 10960 Phone Number: 845 358 2919 Email: clerk@gvoh-ny.gov	Name/Title: Jonathan Bell, Trustee Address: 151 River Road; Grand View-On-Hudson, NY 10960 Phone Number: 845 358 2919 Email: clerk@gvoh-ny.gov
National Flood Insurance Program Floodplain Administrator	
Name/Title: Joseph Knizeski, Building Inspector Address: 151 River Road; Grand View-On-Hudson, NY 10960 Phone Number: 845 358 2919 Email: Building@gvoh-ny.gov	

9.5.2 Municipal Profile

The Village of Grand View-on-Hudson is located within the Town of Orangetown along the western border of Rockland County. The Village is bordered to the north by the Village of South Nyack, to the south by the Village of Piermont, to the east by the Town of Orangetown, and to the west by the Hudson River. The Village has a total area of 0.2 miles, of which, 0.2 square miles is land, and 0.0 square miles is water.

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 5.4 percent of the population is five years of age or younger, 26.6 percent is 65 years of age or older, 0 percent is non-English speaking, 5.4 percent is below the poverty threshold, and 6.6 percent is considered disabled.

9.5.3 Jurisdictional Capability Assessment and Integration

The Village of Grand View-on-Hudson 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 Grand View-on-Hudson to identify opportunities for integration of mitigation concepts that can be incorporated into municipal procedures.

Planning, Legal, and Regulatory Capability and Integration

Table 9.5-2 summarizes the regulatory tools that are available to Village of Grand View-on-Hudson.

Table 9.5-2. 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	-	State, Local	Building Department
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
Before building takes place in the flood plain, our flood plain manager must issue a permit to do any construction in the floodplain.				
Zoning/Land Use Code	Yes	-	Local	Zoning Board of Adjustment
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The Zoning Code includes provisions to reduce erosion, landslides, and excessive stormwater runoff. It also has specific provisions for development in the floodplain.				

	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
Subdivision Code	Yes	-	Local	Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The code includes provisions for determining lot sizes based on slope and contours, which mitigates the potential risk to erosion, landslides, and related hazards.				
Site Plan Code	Yes	Local Law 7/1988	State	Planning Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> Any development other than a single-family residence requires a special permit.				
Stormwater Management Code	Yes	Local Law 4/1989	State	Village Board
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The code has provisions for minimizing stormwater runoff and related pollution.				
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				
Real Estate Disclosure	Yes	New York State (NYS) mandate, Property Condition Disclosure Act, NY Code – Article 14 §460-467	State and 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)	No	-	-	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> N/A				
Flood Damage Prevention Ordinance	Yes	Local Law 1/75	Federal, State, Local	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The Zoning Code has provisions for minimizing the effects of flooding by limiting land disturbance and siting requirements.				
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 Code	State, Local	Village Engineer
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> State mandated BFE+2 for single and two-family residential construction, BFE+1 for all other construction types				

	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
Other: Cumulative Substantial Damage	Yes	Local Law 4/1989	Local	Building Department
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i>				
The building and zoning codes have provisions to minimize potential damage from hazards, including flooding, erosion, landslides, and other events.				
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				
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				

	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
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				
Business/ Downtown 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.)	Yes	Steep Slopes – Local Law 7/1988	State, Local	-
<i>How has or will this be integrated with the HMP and how does this reduce risk?</i> The law aims to reduce risk by providing oversight to development in areas with steep slopes, which may be more vulnerable to impacts from landslides and other hazards.				
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 9.5-3 summarizes the capabilities of Village of Grand View-on-Hudson to oversee and track development.

Table 9.5-3. 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	Before building takes place in the floodplain, the Floodplain Manager must issue a permit to do any construction in the floodplain.
Are permits tracked by hazard area? (For example, floodplain development permits.)	No	-
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	-

Administrative and Technical Capability

Table 9.5-4 summarizes potential staff and personnel resources available to Village of Grand View-on-Hudson and their current responsibilities that contribute to hazard mitigation.

Table 9.5-4. Administrative and Technical Capabilities

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<i>Administrative Capability</i>		
Planning Board	Yes	Planning Board
Zoning Board of Adjustment	Yes	Zoning Board of Adjustment
Planning Department	No	-
Mitigation Planning Committee	No	-
Environmental Board/Commission	No	-
Open Space Board/Committee	No	-
Economic Development Commission/Committee	No	-
Public Works/Highway Department	No	-
Construction/Building/Code Enforcement Department	Yes	Building Department
Emergency Management/Public Safety Department	No	-
Maintenance programs to reduce risk (stormwater maintenance, tree trimming, etc.)	No	-
Mutual aid agreements	Yes	Piermont FD/Cornell Cooperative Extension
Human Resources Manual - Do any job descriptions specifically include identifying or implementing mitigation projects or other efforts to reduce natural hazard risk?	No	-
Other	No	-

Resources	Available? (Yes/No)	Comments (available staff, responsibilities, support of hazard mitigation)
<i>Technical/Staffing Capability</i>		
Planners or engineers with knowledge of land development and land management practices	Yes	Contract
Engineers or professionals trained in building or infrastructure construction practices	Yes	Contract
Planners or engineers with an understanding of natural hazards	Yes	Contract
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)	No	-
Resilience Officer	No	-
Other (this could include stormwater engineer, environmental specialist, etc.)	No	-

Fiscal Capability

Table 9.5-5 summarizes financial resources available to Village of Grand View-on-Hudson.

Table 9.5-5. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use? (Yes/No)
Community Development Block Grants (CDBG, CDBG-DR)	Yes, but not eligible
Capital improvements project funding	Yes
Authority to levy taxes for specific purposes	No
User fees for water, sewer, gas or electric service	No
Impact fees for homebuyers or developers of new development/homes	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	Yes
Other (for example, Clean Water Act 319 Grants [Nonpoint Source Pollution])	No

Education and Outreach Capability

Table 9.5-6 summarizes the education and outreach resources available to Village of Grand View-on-Hudson.

Table 9.5-6. Education and Outreach Capabilities

Outreach Resources	Available? (Yes/No)	Comment:
Public information officer or communications office	No	-
Personnel skilled or trained in website development	No	-
Hazard mitigation information available on your website	No	-
Social media for hazard mitigation education and outreach	No	-
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 Towns 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		
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	The Village provides residents with information regarding natural hazards and how to prepare for storms, including flooding, with the help of the Cornell Cooperative Extension.
Public outreach mechanisms / programs to inform citizens on natural hazards, risk, and ways to protect themselves during such events	No	-

Community Classifications

Table 9.5-7 summarizes classifications for community programs available to Village of Grand View-on-Hudson.

Table 9.5-7. 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)	No	-	-
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

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 9.5-8 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 9.5-8. 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

9.5.4 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 9.5-1 is responsible for maintaining this information.

NFIP Summary

Table 9.5-9 summarizes the NFIP statistics for Village of Grand View-on-Hudson.

Table 9.5-9. Village of Grand View-on-Hudson NFIP Summary of Policy and Claim Statistics

# Policies	20
# Claims (Losses)	46
Total Loss Payments	\$1,296,282
# Repetitive Loss Properties (NFIP definition)	0
# Repetitive Loss Properties (FMA definition)	4
# Severe Repetitive Loss Properties	0
# Policies Within the 1 percent Annual Chance Flood Boundary	1

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 9.5-10 provides a summary of the NFIP program in Village of Grand View-on-Hudson.

Table 9.5-10. NFIP Summary

NFIP Topic	Comments
Flood Vulnerability Summary	
Describe areas prone to flooding in your jurisdiction.	Our eastern border is the Hudson River. The westerly side of the Village is the downside of the mountain.
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?	We do not maintain a list.
How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)?	Unknown
Are any RiskMAP projects currently underway in your jurisdiction? • If so, state what projects are underway.	No
How do you make Substantial Damage determinations?	Through our Building Inspector who is also our Floodplain Management person and who also enforces New York State Codes regarding flood hazards
How many Substantial Damage determinations were declared for recent flood events in your jurisdiction?	Unknown
How many properties have been mitigated (elevation or acquisition) in your jurisdiction? • If there are mitigation properties, how were the projects funded?	None
Do your flood hazard maps adequately address the flood risk within your jurisdiction? • If not, state why.	Unknown at this time.

NFIP Topic	Comments
NFIP Compliance	
What local department is responsible for floodplain management?	Yes, he is our Building Inspector, Code Enforcement Officer, Fire Inspector, and floodplain management officer.
Are any certified floodplain managers on staff in your jurisdiction?	No
Do you have access to resources to determine possible future flooding conditions from climate change?	No
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. Basic training and assistance with understanding the plan.
Provide an explanation of NFIP administration services you provide (e.g., permit review, GIS, education/outreach, inspections, engineering capability)	Permit review and inspections during construction.
How do you determine if proposed development on an existing structure would qualify as a substantial improvement?	By the percentage of improvement.
What are the barriers to running an effective NFIP program in the community, if any?	None
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)?	February 23, 2023
What is the local law number or municipal code of your flood damage prevention ordinance?	Local Law 2 of 2014.
What is the date that your flood damage prevention ordinance was last amended?	Last amended in 2014.
Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> If exceeds, in what ways? 	It meets 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?	Through our code enforcement officer. Yes.
Does your community plan to join the CRS program or is your community interested in improving your CRS classification?	No.

9.5.5 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 9.5-11 through Table 9.5-13.

Table 9.5-11. 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	0
Permits within SFHA	0	0	0	0
2023				
Total Permits	0	0	0	0
Permits within SFHA	0	0	0	0

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

Table 9.5-12. 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
No major development and infrastructure reported.					

* Only location-specific hazard zones or vulnerabilities identified.

Table 9.5-13. 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
No anticipated major development and infrastructure reported.					

* Only location-specific hazard zones or vulnerabilities identified.

9.5.6 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 Grand View-on-Hudson risk assessment results and data used to determine the hazard ranking. Key local risk assessment information is presented below.

Hazard Area

Hazard area maps provided below illustrate the probable hazard areas impacted within the Village are shown in Figure 9.5-1 through Figure 9.5-2. 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 Grand View-on-Hudson has significant exposure. The maps show the location of potential new development, where available.

Figure 9.5-1. Village of Grand View-on-Hudson Flood and Dam Inundation Hazard Area Extent and Location

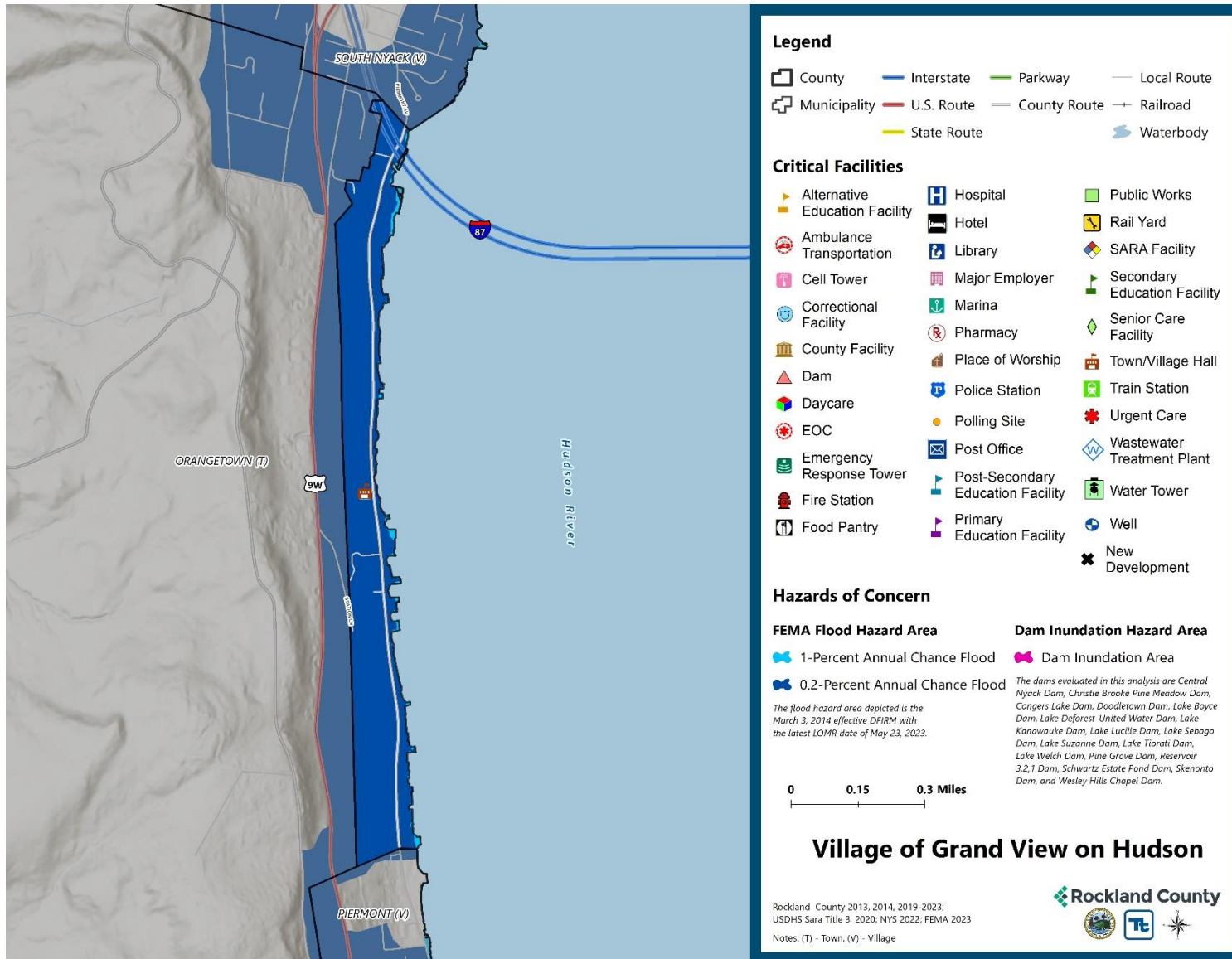
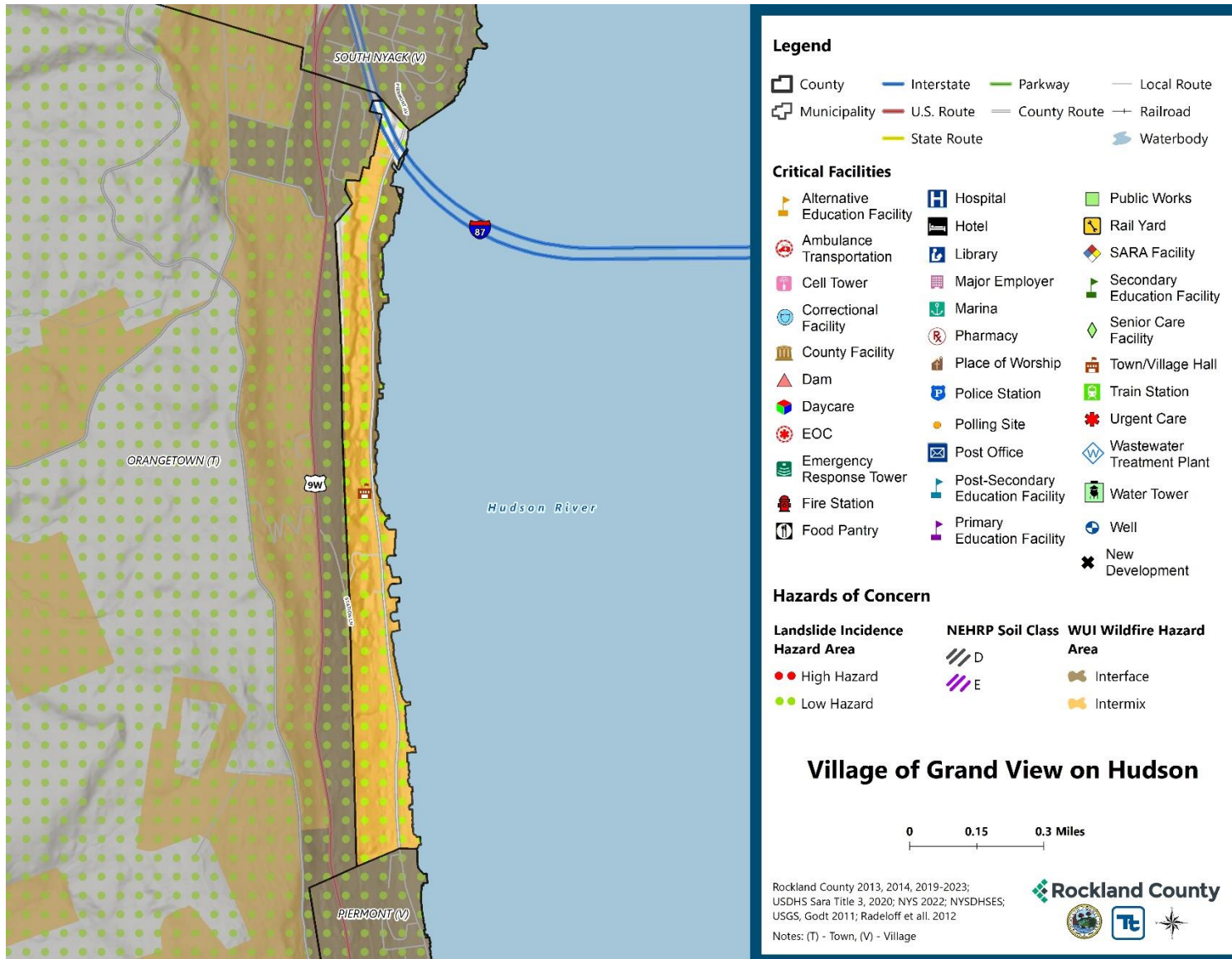


Figure 9.5-2. Village of Grand View-on-Hudson Landslide, Earthquake, and Wildfire Hazard Area Extent and Location



Hazard Event History

The history of natural and non-natural hazard events in the Village of Grand View-on-Hudson is detailed in Volume I, where each hazard profile includes a chronology of historical events that have affected the County and its municipalities. Table 9.5-14 provides details on loss and damage in the Village during hazard events since the last hazard mitigation plan update.

Table 9.5-14. Hazard Event History in the Village of Grand View-on-Hudson

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Summary of Damage and Losses in the Village
January 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.	-
April 13, 2020	High Winds		High winds across the county led to downed trees, power outages, closed roads,	\$200,000 in property damage
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.	-
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.	-

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Summary of Damage and Losses in the Village
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.	-
July 9-10, 2023	Severe Storm, Flooding		Severe storms and flooding resulted in road closures, including portions of the Palisades Interstate Parkway, throughout Rockland County.	-

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 Grand View-on-Hudson.

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. Grand View-on-Hudson 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 did not indicate any changes to the 2019 rankings for the plan update.

Table 9.5-15 shows Grand View-on-Hudson’s final hazard rankings for identified hazards of concern. Mitigation action development uses the ranking to target hazards with the highest risk.

Table 9.5-15. Hazard Ranking

Hazard	Rank
Dam Failure	Low
Disease Outbreak	Medium
Drought	Medium
Earthquake	Low

Hazard	Rank
Extreme Temperature	Medium
Flood	Low
Landslide	Low
Severe Weather	High
Severe Winter Weather	High
Wildfire	Medium

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 9.5-16 identifies critical facilities in the community located in the 1-percent and 0.2-percent annual chance floodplains.

Table 9.5-16. 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		
The Village of Grand View-on-Hudson has no critical facilities located within the 1- or 0.2-percent Annual Chance Flood Hazard Area.					

Source: Rockland County 2023, FEMA

In addition to critical facilities that are exposed to flooding, there are no high hazard dams are located in or that could impact Village of Grand View-on-Hudson.

Identified Issues

After review of Village of Grand View-on-Hudson’s hazard event history, hazard rankings, hazard location, and current capabilities, the Village of Grand View-on-Hudson identified the following vulnerabilities within their community:

- Development around Hader Park has caused increased stormwater runoff that may lead to flooding and landslides. Drainage from uphill properties has become more of a problem with continued development of property along Route 9W and enforcement of tree and plant removal in an environmentally endangered area contributes to the problem as well as wildfire potential. There are properties in the Village that experience repetitive flood damage from severe storm events. Flood-vulnerable properties place an undue stress on the property owner and the Village.
- The Village works with various agencies, associations, and the public to implement monitoring and warning systems, however, the Village lacks an automated notification system for Village residents to increase awareness of hazard events and related impacts including dam/levee failure, disease outbreak, drought, earthquake, extreme temperature, flood, landslide, severe storm, severe winter storm, and wildfire.
- The Village’s floodplain management and ordinance enforcement staff are not Certified Floodplain Managers and flooding is becoming more common and frequent from severe storms and severe winter storms.

- The Village’s floodplain ordinance was last updated in 2014 and may be less effective than current regulations require. There are some facilities that were built before code updates and may be more vulnerable to damage from hazard event such as flood and severe storm events.
- The Village does not participate in CRS and could benefit from the associated incentives for flooding and severe storm events. The Village needs to identify whether or not 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.*

9.5.7 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 9.5-17 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

The Village did not identify any additional mitigation initiatives completed besides what is captured in Table 9.5-17.

Table 9.5-17. 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.
GV-001	Hader Park Drainage Improvements	Flooding, Severe Storm	CPG member; Village Trustee	Development around the park has caused increased stormwater runoff and has created drainage issues in the park. Perform a study to determine actions to be taken to improve stormwater drainage at Hader Park.	1. No Progress 2. N/A	1. Include 2. The Village provided additional information on their work with the Town of Orangetown on these improvements. 3. N/A
GV-002	Online Hazard Information	All Hazards	CPG member; Village Trustee	Lack of public knowledge on the spatial extent of hazards. Provide GIS hazard information online for residents and others in the community to view the Village's hazard vulnerabilities.	1. Ongoing Capability 2. N/A	1. Discontinue 2. N/A 3. The Village can update this information on an as-needed basis and with support from the County.
GV-003	Public Workshops	All Hazards	CPG member; Village Trustee	The public may not be aware of the Village's hazard vulnerabilities and planning/zoning decisions. Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.	1. Ongoing Capability 2. N/A	1. Discontinue 2. N/A 3. The Village can host these workshops on an as-needed basis.

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.
GV-004	NFIP Capabilities	Flooding, Severe Storm	Each jurisdictional CPG member	<p>Repetitively flooded properties place an undue stress on the property owner and village and efforts should be made to mitigate them.</p> <p>Identify and document repetitively flooded properties. Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.</p>	<p>1. No Progress 2. N/A</p>	<p>1. Include 2. N/A 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.
GV-005	Critical Facility Protections	All Hazards	Building Dept. or outside engineer	<p>Critical facilities in the Village are old and may need additional or stronger protections from natural hazards.</p> <p>The Village will work with the property owners to determine the year built and level of protection for critical emergency facilities and shelters to highlight structures built before codes and standards were put in place to provide some degree of protection from natural hazards and pursue potential mitigation opportunities to protect these sites to the 500-year or worst-case scenario as funding becomes available.</p>	<p>1. No Progress 2. N/A</p>	<p>1. Discontinue 2. N/A 3. This capability is leveraged on an as-needed basis when considering grant funding.</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.
GV-006	Emergency Warning System	All Hazards	Village Code, Planning Board and Building Dept.	<p>The current emergency response plans do not implement monitoring or warning systems.</p> <p>Review existing emergency response plans for enhancement opportunities: work with social support agencies, homeowners' associations, and general public to develop and implement monitoring and warning systems focused on vulnerable populations and provision of adequate shelter facilities.</p>	<p>1. No Progress 2. N/A</p>	<p>1. Include 2. N/A 3. N/A</p>
GV-007	Floodplain Management Ordinance FIRM Updates	Flooding	Village Code, Planning Board and Building Dept.	<p>Ensure all staff members are properly trained will allow for the Village to effectively enforce NFIP regulations/floodplain management ordinances.</p> <p>Add/train sufficient members of staff to adequately enforce NFIP regulations/floodplain management ordinances</p>	<p>1. No Progress 2. N/A</p>	<p>1. Include 2. Consolidate with old actions (GV-009) into single new action (2024-GrandView-04). 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.
GV-008	Floodplain Management Ordinance	Flooding	Building Dept.	Current floodplain management ordinance could be out of date and less effective than current regulations require. Update/review floodplain management ordinances to be consistent with potential future new FIRMs.	1. No Progress 2. N/A	1. Include 2. N/A 3. N/A
GV-009	Certified Floodplain Managers	Flooding	Outside Engineer	Future FIRMS could show the need for a more stringent flood ordinance if risk has increased. Require staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs).	1. No Progress 2. N/A	1. Include 2. Consolidate with old actions (GV-007) into single new action (2024-GrandView-04). 3. N/A
GV-010	Community Rating System (CRS)	Flooding	Building Dept.	The Village is not in the CRS program. Join the Community Rating System (CRS).	1. No Progress 2. N/A	1. Include 2. Determine the costs and benefits of joining the CRS program. 3. N/A
GV-011	Village Hall Flood Mitigation	Flooding, Severe Storm	Village Board	Village Hall located in floodplain and was destroyed during Hurricane Sandy. Replacement/elevation of Village Hall outside the floodplain or mitigate to the 500-year flood event.	1. In Progress 2. N/A	1. Discontinue 2. N/A 3. The Village has secured funding to rebuild the historic structure, and reconstruction is currently underway.

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.
GV-012	Natural Hazard Risk Map Database	All Hazards	Village Engineer; Planning Board	<p>Spatial database of all natural hazard risk areas in the Village will allow land use decision makers to plan safe and resilient communities and developments.</p> <p>Develop and maintain mapping of all natural hazard risk areas in the Village, FEMA delineated or otherwise, to support land use decision making (e.g., Planning Board, site plan review process).</p>	<p>1. No Progress 2. N/A</p>	<p>1. Discontinue 2. N/A 3. The Village can provide this information and upload it to its website on an as-needed basis and with support from the County.</p>

Proposed Hazard Mitigation Initiatives for the HMP Update

Grand View-on-Hudson 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 Grand View-on-Hudson 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 9.5-18 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 9.5-19 provides a summary of the prioritization of all proposed mitigation actions for the HMP update.

Table 9.5-18. 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	-	-	-	1	-	-	1	-	-	1
Disease Outbreak	-	-	-	1	-	-	1	-	-	1
Drought	-	-	-	1	-	-	1	-	-	1
Earthquake	-	-	-	1	-	-	1	-	-	1
Extreme Temperature	-	-	-	1	-	-	1	-	-	1
Flood	5	1	1	2	5	2	2	1	1	1
Landslide	1	1	1	1	2	2	2	1	1	1
Severe Weather	4	1	1	2	4	2	2	1	1	1
Severe Winter Weather	1	-	-	1	1	-	1	-	-	1
Wildfire	1	1	1	1	1	1	1	1	1	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 9.5-19. 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-GrandViewV-01	Hader Park Drainage Improvements	0	1	1	1	1	0	1	0	0	1	1	1	0	1	10	Medium
2024-GrandViewV-02	Document Flood-prone Properties	1	1	1	0	1	1	0	1	1	1	0	0	1	0	9	Medium
2024-GrandViewV-03	Automated Notification System	1	1	1	0	0	0	0	1	1	1	0	0	1	1	8	Medium
2024-GrandViewV-04	Certified Floodplain Manager Training	1	1	1	0	0	0	0	1	1	1	1	1	1	1	10	Medium
2024-GrandViewV-05	Update Floodplain Management Ordinances	1	1	1	0	1	0	0	1	1	1	1	1	1	1	11	High
2024-GrandViewV-06	Community Rating System (CRS)	1	1	1	0	0	1	1	0	1	1	1	0	1	0	9	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-GrandViewV-01. Hader Park Drainage Improvements

Action Name:	2024-GrandViewV-01. Hader Park Drainage Improvements		
Description of the Problem:	Development around Hader Park has caused increased stormwater runoff that may lead to flooding and landslides. Drainage from uphill properties has become more of a problem with continued development of property along Route 9W and enforcement of tree and plant removal in an environmentally endangered area contributes to the problem as well as wildfire potential.		
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 checked="" type="checkbox"/> Landslide <input checked="" type="checkbox"/> Severe Storm <input type="checkbox"/> Severe Winter Storm <input checked="" type="checkbox"/> Wildfire	
Description of the Solution:	The Village will cooperate with the Town of Orangetown to enforce environmental regulations for tree and removal of vegetation to start with improvement of drainage along the Hader Park property.		
Lead Agency:	Village Board of Trustees		
Supporting Agencies:	Town of Orangetown, State of New York Highway (Route 9W drainage)		
Estimated Cost:	High (\$120,000)		
Potential Funding Sources:	State, Local		
Implementation Timeline:	Mid-term (2 to 3 years)		
Goals Met:	2, 7		
Benefits:	This action strengthens the Village’s capability to handle flood and wildfire issues.		
Mitigation Action Type: <i>Check all that apply</i>	<input checked="" type="checkbox"/> Local Plans and Regulations (LPR) <input checked="" type="checkbox"/> Structure and Infrastructure Project (SIP)	<input checked="" 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 checked="" 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:	N/A		
Impact on Critical Facilities/Lifelines:	This action allows for critical facility development along Route 9W.		
Impact on Capabilities	this action strengthens the Village’s ability to handle increasing flooding and wildfire issues.		
Impact on Future Development:	This action allows for future development along Route 9W		
Climate Change Considerations:	Climate change is leading to an increase in frequency and intensity of precipitation 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 persists
	Relocate Park		Not feasible

Action 2024-GrandViewV-02. Document Flood-prone Properties

Action Name:	2024-GrandViewV-02. Document Flood-prone Properties	
Description of the Problem:	There are properties in the Village that experience repetitive flood damage from severe storm events. Flood-vulnerable properties place an undue stress on the property owner and the Village.	
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 work with owners located in and around the floodplain to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation, and flood proofing measures to protect these properties.	
Lead Agency:	Village Board of Trustees	
Supporting Agencies:	CPG members	
Estimated Cost:	Medium (\$10,000 to \$100,000)	
Potential Funding Sources:	FEMA (HMGP, FMA, PDM), CDBG, NYS DHSES, Municipal Budget	
Implementation Timeline:	Short-term (<5 years)	
Goals Met:	1, 2, 3, 5, 7	
Benefits:	This action will reduce the amount of flood prone properties and will increase outreach amongst the Village.	
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:	This project could make it easier for the County and Village to reach homeowners with vulnerable properties.	
Impact on Critical Facilities/Lifelines:	N/A	
Impact on Capabilities	Data will help village and county design future mitigation actions and outreach to vulnerable residents.	
Impact on Future Development:	This project could help reduce potential impact of flooding on nearby future development.	
Climate Change Considerations:	This project could help identify potential areas or properties for potential buyouts or floodplain restoration projects.	
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 persists
	Identify repetitive loss areas	Not action-driven and does not reduce or eliminate vulnerability

Action 2024-GrandViewV-03. Automated Notification System

Action Name:	2024-GrandViewV-03. Automated Notification System	
Description of the Problem:	The Village works with various agencies, associations, and the public to implement monitoring and warning systems, however, the Village lacks an automated notification system for Village residents to increase awareness of hazard events and related impacts. 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, such as avoiding flooded or icy roads during a flood, severe storm, dam failure, or severe winter storm. Residents may also need information about what services are available, offline, or restricted due to drought or flooding from intense precipitation, dam failure, severe storms, and snow melt; public cooling or heat centers, such as libraries, during extreme temperatures; and evacuation areas for earthquakes, landslides, and wildfires.	
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 review existing emergency response plans for enhancement opportunities: work with social support agencies, homeowners associations and general public to develop and implement monitoring and warning systems focused on vulnerable populations and provision of adequate shelter facilities. Consider procuring an automated telephone notification system for Village residents.	
Lead Agency:	Village Planning Department	
Supporting Agencies:	Rockland County Office of Emergency Services	
Estimated Cost:	Medium (\$10,000 to \$100,000)	
Potential Funding Sources:	State, Local	
Implementation Timeline:	Short-term (<5 years)	
Goals Met:	1, 2, 3, 4, 5, 6, 7	
Benefits:	This action strengthens the Village warning times.	
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 checked="" type="checkbox"/> Emergency Services (ES)
Impact on Socially Vulnerable Populations:	This system could make it easier for populations with limited internet access or technical capabilities to become aware of potential hazard events or warnings.	
Impact on Critical Facilities/Lifelines:	This project could notify residents resources available to them and/or advise them to stay off roads during hazard events, reducing congestion for emergency vehicles.	
Impact on Capabilities	This project would improve the Village’s capabilities to prepare and respond to emergencies.	
Impact on Future Development:	N/A	

Climate Change Considerations:	Climate change is leading to an increase in frequency and intensity of precipitation events, which leads to an increase in flooding.		
Priority: <i>Check one</i>	<input checked="" type="checkbox"/> High	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives Action Name:	Action		Alternatives
	No action		Current problem persists
	Automated email system		Not feasible

Action 2024-GrandViewV-04. Certified Floodplain Manager Training

Action Name:	2024-GrandViewV-06. Certified Floodplain Manager Training		
Description of the Problem:	The Village’s floodplain management and ordinance enforcement staff are not Certified Floodplain Managers and flooding is becoming more common and frequent from severe storms and severe winter 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 checked="" type="checkbox"/> Severe Winter Storm <input type="checkbox"/> Wildfire	
Description of the Solution:	The Village will require staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers. The Village will add/train sufficient members of their staff to adequately enforce NFIP regulations/floodplain management ordinances		
Lead Agency:	Village		
Supporting Agencies:	Building Department		
Estimated Cost:	Low (< \$10,000)		
Potential Funding Sources:	Operating Budget		
Implementation Timeline:	Short-term (< 5 years)		
Goals Met:	1, 2, 3, 7		
Benefits:	This action strengthens the Village’s ability to enforce floodplain management practices.		
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:	N/A		
Impact on Critical Facilities/Lifelines:	This action will familiarize the Village staff with updated floodplain management practices which may benefit critical facilities and infrastructure that could be impacted by flooding.		
Impact on Capabilities	N/A		

Impact on Future Development:	N/A		
Climate Change Considerations:	Climate change is leading to an increase in frequency and intensity of precipitation events, which leads to an increase in flooding.		
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 persists	
	Explore having volunteer staff enforce NFIP regulations/floodplain management ordinances	Not preferred	

Action 2024-GrandViewV-05. Update Floodplain Management Ordinance

Action Name:	2024-GrandViewV-05. Update Floodplain Management Ordinance		
Description of the Problem:	The Village’s floodplain ordinance was last updated in 2014 and may be less effective than current regulations require. There are some facilities that were built before code updates and may be more vulnerable to damage from hazard event such as flood and severe storm events.		
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:	Review potential future new FIRMs or RiskMAP projects and determine the need to update floodplain management ordinances.		
Lead Agency:	Village Engineer		
Supporting Agencies:	Building Department		
Estimated Cost:	Low (< \$10,000)		
Potential Funding Sources:	Local, State		
Implementation Timeline:	Short-term (< 5 years)		
Goals Met:	1, 2, 5, 7		
Benefits:	This action strengthens the Village’s codes and ordinances.		
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:	N/A		
Impact on Critical Facilities/Lifelines:	Ordinance updates may better protect critical facilities and lifelines.		

Impact on Capabilities	A stronger ordinance will allow the Village to enforce more protective standards.		
Impact on Future Development:	Future development will have to follow the ordinance’s provisions.		
Climate Change Considerations:	A stronger ordinance may better prepare the Village for more intense and frequent flooding.		
Priority: Check one	<input checked="" type="checkbox"/> High	<input type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives	Action	Evaluation	
	No action	Current problem persists	
	Update floodplain management ordinances with each new FIRM update	Time-consuming and not cost-effective	

Action 2024-GrandViewV-06. Community Rating System (CRS)

Action Name:	2024-GrandViewV-06. Community Rating Systems		
Description of the Problem:	The Village does not participate in CRS and could benefit from the associated incentives for flooding and severe storm events. The Village needs to identify whether or not joining the program will be beneficial to the community and its residents.		
Hazard(s) of Concern: Check all that apply	<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 support participation in the NFIP Community Rating System (CRS) program by attending CRS workshop(s) if offered within the county. The Village will join the CRS program if adequate resources to support long term participation can be dedicated. See following related Community Assistance Visit (CAV) initiative.		
Lead Agency:	Building Department		
Supporting Agencies:	Floodplain Administrator		
Estimated Cost:	Medium (\$10,000 to \$100,000)		
Potential Funding Sources:	Operating Budget		
Implementation Timeline:	Short-term (< 5 years)		
Goals Met:	1, 2 3, 7		
Benefits:	This action benefits the Village by being able to use CRS incentives and benefits to complete mitigation projects.		
Mitigation Action Type: Check all that apply	<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 checked="" type="checkbox"/> Education and Awareness Programs (EAP)	
CRS Category: Check all that apply	<input checked="" type="checkbox"/> Preventative Measures (PR) <input checked="" 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:	N/A		

Impact on Critical Facilities/Lifelines:	CRS activities may better protect critical facilities and lifelines during flood events.		
Impact on Capabilities	Joining CRS may strengthen the Village’s technical knowledge and capability to enforce floodplain management best practices.		
Impact on Future Development:	Future development would have to follow any ordinance revisions that the Village enacts to gain CRS points.		
Climate Change Considerations:	The Village may adopt a stronger ordinance or enact mitigation projects for CRS points that may better prepare the Village for more intense and frequent flooding.		
Priority: Check one	<input type="checkbox"/> High	<input checked="" type="checkbox"/> Medium	<input type="checkbox"/> Low
Alternatives	Action		Evaluation
	No action		Current problem persists
	Create local initiative to exceed NFIP requirements		No flood insurance premium discounts for property owners