

9.5 VILLAGE OF GRAND VIEW-ON-HUDSON

This section presents the jurisdictional annex for the Village of Grand View-on-Hudson.

9.5.1 Hazard Mitigation Plan Point of Contact

The following individuals have been identified as the hazard mitigation plan’s primary and alternate points of contact.

Primary Point of Contact	Alternate Point of Contact
Julie Pagliareli – Village Clerk Email: clerk@gvoh-ny.com Phone: 845-368-2919	Joseph Knizeski – Building Inspector/Code Enforcement Email: building@gvoh-ny.com Phone: 845-348-0747
NFIP Floodplain Administrator (FPA)	
Joseph Knizeski – Building Inspector/Code Enforcement building@gvoh-ny.com 845-348-0747	

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. According to the 2010 Census, the community's population was 285. The Village is governed by the Village Board of Trustees.

Growth/Development Trends

The following table summarizes recent residential/commercial development since 2010 to present and any known or anticipated major residential/commercial development and major infrastructure development that has been identified in the next five years within the municipality. Refer to the map in 9.5.8 of this annex which illustrates the hazard areas along with the location of potential new development.

Table 9.5-1. Growth and Development

Property or Development Name	Type (e.g. Res., Comm.)	# of Units / Structures	Location (address and/or Parcel ID)	Known Hazard Zone(s)	Description/Status of Development
Recent Development from 2010 to present					
None identified by the Village.					
Known or Anticipated Development in the Next Five (5) Years					
New Village Hall	Government	1	Unknown at this time	Unknown at this time	Unknown at this time

** Only location-specific hazard zones or vulnerabilities identified.*

9.5.3 Natural Hazard Event History Specific to the Municipality

Rockland County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the County and its municipalities. For the purpose of this plan update, events that have occurred in the County from 2008 to present were summarized to indicate the range and impact of hazard events in the community. Information regarding specific damages is included, if available, based on reference

material or local sources. This information is presented in the table below. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.5-2. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	Rockland County Designated?	Did your community suffer losses/costs from this event?	Notes on damages within County
August 10, 2009	Thunderstorms	N/A	No	\$25,000 in damages throughout County
January 25, 2010	High Wind	N/A	No	\$100,000 in damages throughout County
March 13-31, 2010	Severe Storms and Flooding DR-1899	Yes	\$2,800 – Damage to Village Hall pillars at Hudson River	
July 19, 2010	Thunderstorms, Lightning, Wind	N/A	No	\$36,000 in damages throughout County
December 26-27, 2010	Severe Winter Storm and Snowstorm DR-1957	Yes	No	
August 25 – September 5, 2011	Hurricane Irene DR-4020	Yes	\$65,000 – Lower level of Village Hall damaged	
October 27 – November 8, 2012	Hurricane Sandy DR-4085	Yes	\$4,000,000 – River Road closed for 4 days; Utility loss of 10 days; Road damages and park erosion; Village Hall destroyed; multiple residential properties damaged; Police overtime/cleanup - \$12,600	
February 16, 2016	Strong Winds	N/A	\$2,500	\$50,000 in damages throughout County

Notes:

EM Emergency Declaration (FEMA)

FEMA Federal Emergency Management Agency

DR Major Disaster Declaration (FEMA)

N/A Not applicable

9.5.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the Village of Grand View-on-Hudson. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

Natural Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Village of Grand View-on-Hudson.

Table 9.5-3. Hazard Risk/Vulnerability Risk Ranking

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Drought	Damage estimate not available	Frequent	39	High
Earthquake	100-Year GBS: \$0 500-Year GBS: \$383,749 2,500-Year GBS: \$7,488,132	Occasional	24	Medium
Extreme Temperature	Damage estimate not available	Frequent	18	Medium
Flood	1% Annual Chance: \$9,000	Frequent	36	High
Landslide	RCV Exposed: \$0	Rare	6	Low
Severe Storm	100-Year MRP: \$46,985 500-year MRP: \$433,678 Annualized: \$3,948	Frequent	48	High
Winter Storm	1% GBS: \$570,170 5% GBS: \$2,850,850	Frequent	51	High
Wildfire	Estimated Value in the WUI: \$88,853,000	Frequent	54	High

Notes:

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

National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Grand View-on-Hudson.

Table 9.5-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Boundary (3)
Village of Grand View-on-Hudson	31	26	\$1,248,200	3	0	1

Source: FEMA Region 2, 2016

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

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

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

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

Critical Facilities

The table below presents the critical facilities identified in the HMP that are located in the FEMA-delineated 1- and/or 0.2-percent annual chance floodplain. The table also summarizes the Hazards United States (HAZUS)



– Multi-Hazards (MH) damage estimates (if any) to each critical facility as a result of the 1-percent annual chance flood event.

Table 9.5-5. Potential Flood Losses to Critical Facilities

Name	Type	Exposure		Potential Loss from 1% Flood Event	
		1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage
Grand View Village Hall	Municipal Hall	X	X	15	100

Source: Hazus-MH 3.2, Rockland County

Other Vulnerabilities Identified

The municipality has identified the following vulnerabilities within their community:

- Steep slopes along entire west side of Village
- Properties and structures along Hudson River

9.5.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- National Flood Insurance Program
- Integration of mitigation planning into existing and future planning mechanisms

Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Village of Grand View-on-Hudson.

Table 9.5-6. Planning and Regulatory Tools

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Planning Capability				
Master Plan	No			
Capital Improvements Plan	No			
Floodplain Management / Basin Plan	Yes	Local	Building Department	Local Law 1/75
Stormwater Management Plan	Yes	Local	Building Department	Local Law 1/14
Open Space Plan	No			
Stream Corridor Management Plan	No			
Watershed Management or Protection Plan	No			

Tool / Program (code, ordinance, plan)	Do you have this? (Yes/No) If Yes, date of adoption or update	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, name of plan, explanation of authority, etc.)
Economic Development Plan	No			
Comprehensive Emergency Management Plan	No			
Emergency Operation Plan	No			
Post-Disaster Recovery Plan	No			
Transportation Plan	No			
Strategic Recovery Planning Report	No			
Other Plans:	No			
Regulatory Capability				
Building Code	Yes	State & Local	Building Department	
Zoning Ordinance	Yes	Local	Zoning Board of Adjustment	
Subdivision Ordinance	Yes	Local	Planning Board	
NFIP Flood Damage Prevention Ordinance	Yes	Federal, State, Local		
NFIP: Cumulative Substantial Damages	Yes	Local	Building Department	Local Law 4/1989
NFIP: Freeboard	Yes	State, Local	Building Department	State mandated BFE+2 for single and two-family residential construction, BFE+1 for all other construction types
Growth Management Ordinances	No			
Site Plan Review Requirements	Yes	State	PB	Local Law 7/1988
Stormwater Management Ordinance	Yes	State	Village Board	Local Law 4/1989
Municipal Separate Storm Sewer System (MS4)	Yes	State	Engineer	
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	Yes	State		NYS mandate, Property Condition Disclosure Act, NY Code - Article 14 §460-467
Other (Special Purpose Ordinances [i.e., sensitive areas, steep slope])	Steep Slopes	Local	State	Local Law 7/1988

Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Grand View-on-Hudson.

Table 9.5-7. Administrative and Technical Capabilities

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

Fiscal Capability

The table below summarizes financial resources available to the Village of Grand View-on-Hudson.

Table 9.5-8. 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

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

Community Classifications

The table below summarizes classifications for community program available to the Village of Grand View-on-Hudson.

Table 9.5-9. Community Classifications

Program	Do you have this? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No		
Building Code Effectiveness Grading Schedule (BCEGS)	No		
Public Protection (ISO Fire Protection Classes 1 to 10)	No		
NYSDEC Climate Smart Community	No		
Storm Ready Certification	No		
Firewise Communities classification	No		
Natural disaster/safety programs in/for schools	No		
Organizations with mitigation focus (advocacy group, non-government)	No		
Public education program/outreach (through website, social media)	Yes		
Public-private partnership initiatives addressing disaster-related issues	No		

Note:

- N/A Not applicable
- NP Not participating
- Unavailable

The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO’s Public Protection website at <https://www.isomitigation.com/ppc/>

- The National Weather Service Storm Ready website at <http://www.stormready.noaa.gov/index.html>
- The National Firewise Communities website at <http://firewise.org/>

Self-Assessment of Capability

The table below provides an approximate measure of the Village of Grand View-on-Hudson’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.5-10. Self-Assessment Capability for the Municipality

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

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

Joseph Knizeski, Building Inspector

Flood Vulnerability Summary

Currently, the Village maintains an inventory of properties that have been flood damaged, but does not indicate which property owners are interested in mitigation activities. During storms, including Floyd, Irene, and Sandy, the Village saw 36 residential buildings and 1 municipal building damage by the events. The Village does not make Substantial Damage estimates, but received education on how to conduct them after Sandy for future events. There are currently no properties in the process of mitigation.

Resources

The FPA is the sole person conducting the responsibilities of floodplain management for the Village. These responsibilities include permit review, inspections, and damage assessments. The Village does not provide education and outreach to the community regarding floodplain management and hazard reduction. The FPA indicated that attending continuing education and/or certification training on floodplain management would provide the ability to effectively fulfill the responsibilities of the FPA.

Compliance History

The Village is currently in good-standing with the NFIP, but it is unknown when the most recent compliance audit was conducted.

Regulatory

The Village's floodplain management regulations and ordinances meet the FEMA and State minimum standards. The Village has not considered joining the Community Rating System in the past but would be likely to attend a CRS seminar if it were offered locally.

Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

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

Planning

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

Regulatory and Enforcement (Ordinances)

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

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

Funding

Operating Budget: The Town has a Capital Improvements Budget, which includes funding for mitigation related projects.

Education and Outreach

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.

Rockland County provides the following services to its municipalities:

- County provides Towns and Villages palm-cards on winter storms; information regarding flooding; hurricane; high-winds, tornadoes via email and social media (Twitter and Facebook).
- Emergency Notification Systems: Rockland County has mapping services available to municipalities through their on-line web map portal. Disaster Land is a web-based emergency management software system; municipalities are granted access to it; flood inundation zones are incorporated into it so

Emergency Coordinator from the municipality has access to it 24/7 on smart phone/laptop/desktop. The County utilizes NY-Alert and CodeRed (the backup to NY-Alert) for emergency notifications (all Towns and Villages have access to it). There is a mailbox for known inundation areas to target outreach as needed; and have license for FEMA's IPAWS to issue notifications.

9.5.6 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and prioritization.

Past Mitigation Initiative Status

The following table indicates progress on the community's mitigation strategy identified in the 2010 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under 'Capability Assessment' presented previously in this annex.

Table 9.5-11. Status of Previous Mitigation Actions

<u>Action Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2018 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Old GV-1	Update floodplain management ordinance.	Village Board and Attorney	Complete	1. 100% Complete 2. Local laws approved 3. Municipal budget	Discontinue	Complete
Old GV-2	Drainage study and improvements along Station Lane.	Engineering	Complete	1. 100% Complete 2. Drainage work complete 3. Municipal budget	Discontinue	Complete
Old GV-3	Drainage improvements to Hader Park	Engineering	In Progress	1. 10% Complete 2. In study stage 3. Municipal budget	Include in 2018 HMP	Complete study and determine next steps for drainage improvements
Old GV-4	Bank stabilization and armoring of Hudson River along River Road.	Engineering	Complete	1. 100% Complete 2. Work complete 3. Rockland County Highway Dept.	Discontinue	Complete
1.B	Ensure that local comprehensive plans incorporate natural disaster mitigation techniques through a courtesy review or draft plans by the County Planning Department.	CPG member; Village Trustee	No Progress	1. 0% Complete 2. Village does not have a comprehensive plan 3. No funding	Discontinue	Not applicable to Village
2.A	Expand and disseminate GIS and other hazard information on the internet.	CPG member; Village Trustee	No Progress	1. 0% complete 2. The item is being discussed. 3. No funding secured	Include in 2018 HMP	Seek funding and resources

Action Number	2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2018 HMP or Discontinue)	Describe Next Step 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Old GV-5	Work with local municipalities to pursue the development of an Emergency Notification System call perimeter for high risk locations of natural hazards with delineable hazard areas. Rockland County staff will make aerial mapping available, along with GIS mapping for natural hazards that was completed as part of the hazard mitigation planning project. The County will also facilitate the utilization of the Emergency Notification System by municipalities.	CPG member; Village Trustee	Complete	<p>Rockland County has mapping services available to municipalities through their on-line web map portal.</p> <p>Disaster Land is a web-based emergency management software system; municipalities are granted access to it; flood inundation zones are incorporated into it so Emergency Coordinator from the municipality has access to it 24/7 on smart phone/laptop/desktop.</p> <p>The County utilizes NY-Alert and CodeRed (the backup to NY-Alert) for emergency notifications (all Towns and Villages have access to it; New Hempstead not using CodeRed). There is a mailbox for known inundation areas to target outreach as needed; and have license for FEMA's IPAWS to issue notifications.</p>	Discontinue	Complete
Old GV-6	Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.	CPG member; Village Trustee	In Progress	<ol style="list-style-type: none"> 10% complete The item is being discussed. No funding secured 	Include in 2018 HMP	Work to plan workshops to educate the public on these issues
4.F	Continue to implement best management practices for floodplain areas.	CPG member; Village Trustee	Complete	<ol style="list-style-type: none"> 100% Continually looking for best management practices during new development and redevelopment Municipal budget 	Discontinue	Action no longer required – standard practice

<u>Action Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2018 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
4.G	Identify and document repetitively flooded properties. Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.	CPG member; Village Trustee	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	Identify owners and initiate outreach to discuss potential mitigation actions; secure funding
4.J	Develop specific mitigation solutions for floodprone road systems (roads, bridges, intersections, drainage, etc.) under the leadership of County DPW.	CPG member; Village Trustee	Complete	1. 100% 2. Bank stabilization and armoring of Hudson River along River Road 3. Rockland County Highway Department	Discontinue	Complete – Will continue to develop additional solutions
13.A	Determine the year built and level of protection for critical emergency facilities and shelters to highlight structures built before codes and standards were put in place to provide some degree of protection from natural hazards, and pursue potential mitigation opportunities to protect these sites as funding becomes available.	CPG member; Village Trustee	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	Updated critical facility specific actions for flooding added for 2018 Update; secure funding
11.B	Review existing emergency response plans for enhancement opportunities: work with social support agencies, homeowners associations and general public to develop and implement monitoring and warning systems focused on vulnerable populations and provision of adequate shelter facilities.	CPG member; Village Trustee	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	Actively focus on reviewing emergency response plans and work to educate/involve the public

<u>Action Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2018 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Old GV-7	Public awareness program on hazards, prevention and mitigation: assist CPG Chairperson in maintenance of mitigation planning web presence; assist CPG Chairperson in preparation of annual hazards and mitigation planning fact sheet and its distribution; assist CPG chairperson in preparation of hazards survey; periodic discussion of hazard mitigation and the mitigation plan at other regular local meetings; use of annual flyers, newsletters, advertisements, or radio/TV announcements, etc. at the discretion of the jurisdiction (incorporating as much free information as possible from the FEMA publications warehouse and other appropriate sources).	RCOFES lead with direct participation and involvement from each jurisdiction's CPG member	Complete	1. 100% 2. County provided materials for display within the Village 3. Municipal budget, County budget	Discontinue	Complete
Old GV-8	Code update: review existing local codes and ordinances against the identified hazards to determine whether there needs to be any amendments to address identified hazards and, where a need is identified; modify/amend the codes/ordinances as applicable.	Each jurisdictional CPG member	Complete	1. 100% Complete 2. Local laws approved 3. Municipal budget	Discontinue	Complete
Old GV-9	Code enforcement: enforcement of NYS and local building codes	Each jurisdictional CPG member	Complete	1. Complete 2. Building codes enforced 3. Municipal budget	Discontinue	Action no longer required – standard practice
Old GV-10	Update/revise floodplain management ordinance to comply with latest FEMA regulations	Building Dept.	Complete	1. 100% Complete 2. Local laws approved 3. Municipal budget	Discontinue	Complete

<u>Action Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2018 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2016 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
Old GV-11	Designate/install a specific person to be the Village Floodplain Administrator	Building Dept. or outside engineer	Complete	1. 100% Complete 2. Building Inspector designated 3. Municipal budget	Discontinue	Complete
Old GV-12	Add/train sufficient members of staff to adequately enforce NFIP regulations/floodplain management ordinances	Village Code, Planning Board and Building Dept.	In Progress	1. 10% complete 2. The item is being discussed. 3. Municipal budget	Include in 2018 HMP	Continue to find opportunities for staff members to become adequately trained to enforce NFIP regulations/floodplain management ordinances
Old GV-13	Update/review floodplain management ordinances to be consistent with potential future new FIRMs	Building Dept.	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	Obtain most up-to-date FEMA data and compare with existing ordinances
Old GV-14	Require staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs)	Outside Engineer	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	Seek funding and training and education opportunities for staff to become certified
Old GV-15	Join the Community Rating System (CRS)	Building Dept.	No Progress	1. 0% complete 2. The item was not discussed. 3. No funding secured	Include in 2018 HMP	Initiate discussion to explore benefits of joining the CRS program

Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The Village of Grand View-on-Hudson has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2010 Plan:

- None identified

Proposed Hazard Mitigation Initiatives for the Plan Update

The Village of Grand View-on-Hudson participated in a mitigation action workshop on February 16, 2017 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: FEMA 551 'Selecting Appropriate Mitigation Measures for Floodprone Structures' (March 2007) and FEMA 'Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards' (January 2013).

Table 9.5-12 summarizes the comprehensive-range of specific mitigation initiatives the Village of Grand View-on-Hudson would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

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

Table 9.5-13 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.

Table 9.5-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
GV-001 (Old GV-3)	Drainage improvements to Hader Park	Existing	Flooding, Severe Storm	1, 2, 4	CPG member; Village Trustee	High	High	Village Budget	Short	Medium	NSP	NR
GV-002 (2.A)	Expand and disseminate GIS and other hazard information on the internet.	N/A	All Hazards	All	CPG member; Village Trustee	Medium	Medium	Municipal funding; Grant funding	DOF	Medium	EAP	PI
GV-003 (Old GV-6)	Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.	N/A	All Hazards	1, 2, 3, 5, 7	CPG member; Village Trustee	High	Low	Municipal Budget	Ongoing	High	EAP	PI
GV-004 (4.G)	Identify and document repetitively flooded properties. Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.	Existing	Flooding, Severe Storm	1, 2, 3, 5, 7	Each jurisdictional CPG member	High	Low	Municipal Budget	Ongoing	High	LPR, EAP	PR, PI
GV-005 (13.A)	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	Existing	All Hazards	1, 2, 5, 7	Building Dept. or outside engineer	Medium	Low	Municipal budget	Short	Medium	LPR	PR

Table 9.5-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	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.											
GV-006 (11.B)	Review existing emergency response plans for enhancement opportunities: work with social support agencies, homeowners associations and general public to develop and implement monitoring and warning systems focused on vulnerable populations and provision of adequate shelter facilities.	N/A	All	1, 2, 5, 7	Village Code, Planning Board and Building Dept.	High	Medium	Municipal budget	Short	High	LPR	PR
GV-007 (Old GV-12)	Add/train sufficient members of staff to adequately enforce NFIP regulations/floodplain management ordinances	N/A	Flood	1, 2, 3, 7	Village Code, Planning Board and Building Dept.	Medium	Low	Municipal budget	DOF	Medium	LPR	PR
GV-008 (Old GV-13)	Update/review floodplain management ordinances to be consistent with potential future new FIRMs	N/A	Flood	1, 2, 3, 7	Building Dept.	Medium	Low	Municipal budget	Short	High	EAP	PI
GV-009 (Old GV-14)	Require staff involved in floodplain management and ordinance enforcement	N/A	Flood	1, 2, 3, 7	Outside Engineer	Medium	Low	Municipal budget	DOF	Medium	LPR	PR



Table 9.5-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	to become Certified Floodplain Managers (CFMs)											
GV-010 (Old GV-15)	Join the Community Rating System (CRS)	N/A	Flood	1, 2, 3, 7	Building Dept.	Medium	Medium	Municipal budget	DOF	Medium	EAP	PI
GV-011	Replacement/elevation of Village Hall located in the floodplain and that was destroyed by Hurricane Sandy; protect to the 500-year flood event or worse-case scenario.	Existing	Flood, Severe Storm		Village Board	High	High	FEMA/NYS Grant Funding	Short	High	SIP	PP
GV-012	Develop and maintain mapping of all natural hazard risk areas in the Village, FEMA delineated or otherwise, to support land use decision making (e.g. Planning Board, site plan review process)	New/Existing	All Hazard	1, 2, 3, 4, 6	Village Engineer; Planning Board	Medium	Low	Municipal Budget	DOF	Medium	EAP	PI

Notes:

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

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

Acronyms and Abbreviations:

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

Potential FEMA HMA Funding Sources:

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

Timeline:

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



Costs:

Where actual project costs have been reasonably estimated:

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

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

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

Benefits:

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

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

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

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

Mitigation Category:

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

CRS Category:

- Preventative Measures (PR) - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- Property Protection (PP) - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- Public Information (PI) - Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and educational programs for school-age children and adults.
- Natural Resource Protection (NR) - Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- Structural Flood Control Projects (SP) - Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.
- Emergency Services (ES) - Actions that protect people and property during and immediately following a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities

Table 9.5-13. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
GV-001 (Old GV-3)	Drainage improvements to Hader Park	1	1	1	1	0	0	0	0	0	1	0	0	1	0	7	Medium
GV-002 (2.A)	Expand and disseminate GIS and other hazard information on the internet.	1	1	1	1	0	0	1	0	0	1	1	0	0	0	7	Medium
GV-003 (Old GV-6)	Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.	1	1	1	1	0	0	1	0	1	1	1	0	1	0	9	High
GV-004 (4.G)	Identify and document repetitively flooded properties. Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.	1	1	1	1	0	0	1	0	1	1	1	0	1	0	9	High
GV-005 (13.A)	The Village will work with the property owners to determine the year built and level	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	Medium

Table 9.5-13. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
	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.																
GV-006 (11.B)	Review existing emergency response plans for enhancement opportunities: work with social support agencies, homeowners associations and general public to develop and implement monitoring and warning systems focused on vulnerable populations and provision of adequate shelter facilities.	1	1	1	1	1	1	1	0	0	1	1	0	1	0	10	High
GV-007 (Old GV-12)	Add/train sufficient members of staff to adequately enforce	1	1	1	1	0	0	0	0	0	1	1	0	1	0	7	Medium

Table 9.5-13. Summary of Prioritization of Actions

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
	NFIP regulations/floodplain management ordinances																
GV-008 (Old GV-13)	Update/review floodplain management ordinances to be consistent with potential future new FIRMs	1	1	1	1	0	0	0	0	1	1	1	0	1	0	8	High
GV-009 (Old GV-14)	Require staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs)	1	1	1	1	0	0	0	0	0	1	1	0	1	0	7	Medium
GV-010 (Old GV-15)	Join the Community Rating System (CRS)	1	1	1	1	0	0	1	0	1	1	1	0	0	0	8	Medium
GV-011	Replacement/Elevation of Village Hall	1	1	1	0	1	1	0	0	0	1	1	0	1	0	8	High
GV-012	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)	1	1	1	1	0	1	1	0	0	1	1	0	0	0	8	Medium

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



9.5.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

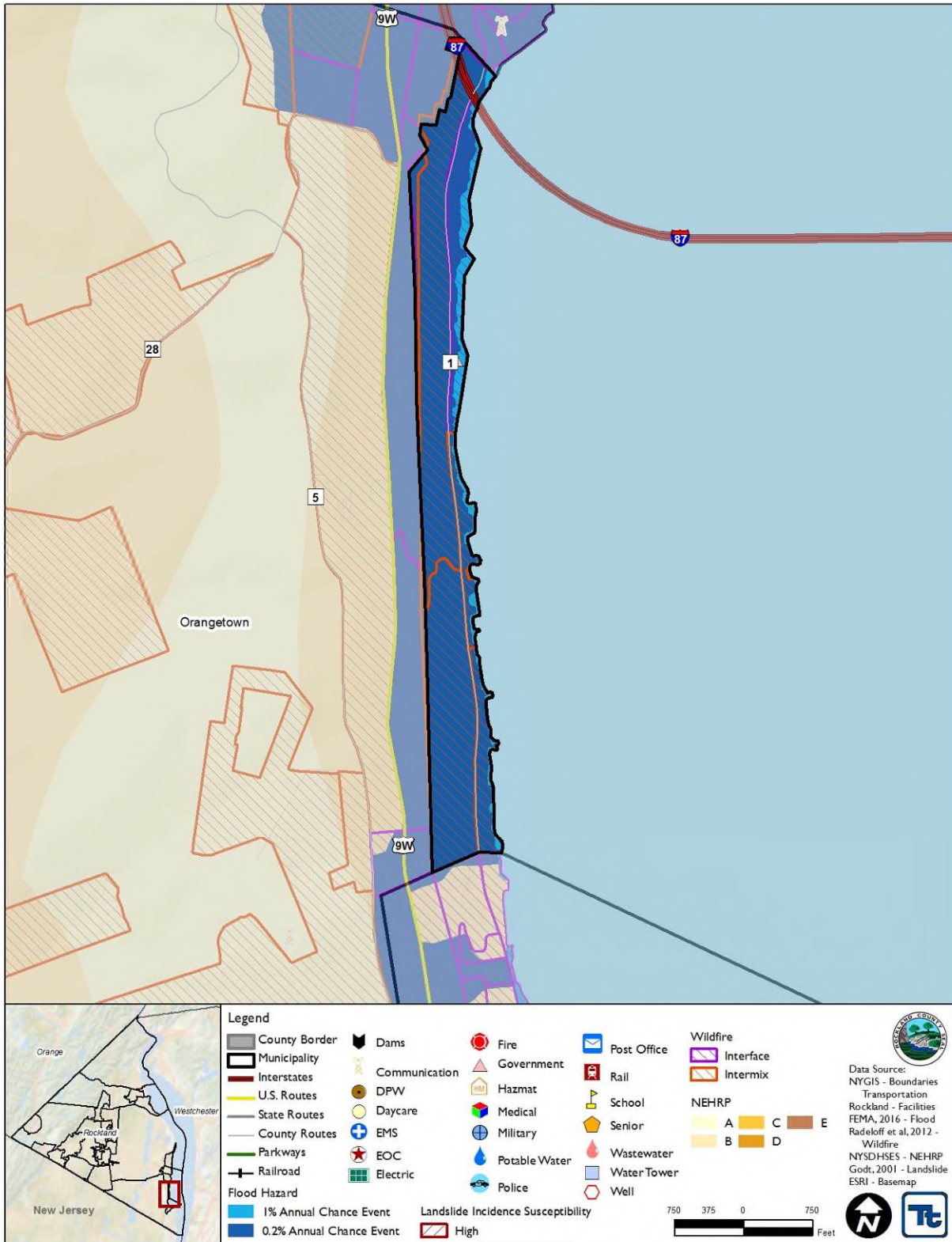
9.5.8 Hazard Area Extent and Location

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

9.5.9 Additional Comments

None at this time.

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



Action Number:

GV-1

Mitigation Action Name:

Drainage improvements to Hader Park

Assessing the Risk	
Hazard(s) addressed:	Flooding, Severe Storm
Specific problem being mitigated:	Development around the park has caused increased stormwater runoff and has created drainage issues in the park.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Move park to new location – not feasible
Action/Project Intended for Implementation	
Description of Selected Action/Project	Actions to be taken to improve stormwater drainage at Hader Park.
Mitigation Action Type	NSP
Goals Met	1, 2, 4
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	Medium
Plan for Implementation	
Responsible Organization	CPG member; Village Trustee
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	Village Budget
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Working to complete study and determine next steps for drainage improvements

Action Number:
Mitigation Action Name:

GV-1
Drainage improvements to Hader Park

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

Action Number:

GV-2

Mitigation Action Name:

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

Assessing the Risk	
Hazard(s) addressed:	All Hazards
Specific problem being mitigated:	Lack of public knowledge on the spatial extent of hazards.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Rely on non-profit groups to expand and disseminate hazard information – may not be able to commit or sustain action
Action/Project Intended for Implementation	
Description of Selected Action/Project	Provide GIS hazard information online for residents and others in the community to view the Village's hazard vulnerabilities.
Mitigation Action Type	EAP
Goals Met	All
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium
Estimated Cost	Medium
Priority*	Medium
Plan for Implementation	
Responsible Organization	CPG member; Village Trustee
Local Planning Mechanism	Hazard Mitigation, Public Education
Potential Funding Sources	Municipal funding; Grant funding
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Seeking funding and resources

Action Number:

GV-2

Mitigation Action Name:

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

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	1	Municipal funding; Grant funding
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	0	Depends on funding – may not be completed in next five years
Agency Champion	0	
Other Community Objectives	0	
Total	7	
Priority (H/M/L)	Medium	

Action Number:

GV-3

Mitigation Action Name:

Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.

Assessing the Risk	
Hazard(s) addressed:	All Hazards
Specific problem being mitigated:	The public may not be aware of the Village's hazard vulnerabilities and planning/zoning decisions.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Rely on non-profits to conduct outreach on hazards and hazard mitigation – may not be able to commit or be sustainable
Action/Project Intended for Implementation	
Description of Selected Action/Project	Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.
Mitigation Action Type	EAP
Goals Met	1, 2, 3, 5, 7
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	High
Estimated Cost	Low
Priority*	High
Plan for Implementation	
Responsible Organization	CPG member; Village Trustee
Local Planning Mechanism	Hazard Mitigation, Public Education
Potential Funding Sources	Municipal Budget
Timeline for Completion	Ongoing
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Working to plan workshops to educate the public on these issues

Action Number:

GV-3

Mitigation Action Name:

Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	1	Municipal budget
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	0	Ongoing action
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (H/M/L)	High	

Action Number:

GV-4

Mitigation Action Name:

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

Assessing the Risk	
Hazard(s) addressed:	Flooding, Severe Storm
Specific problem being mitigated:	Repetitively flooded properties place an undue stress on the property owner and village and efforts should be made to mitigate them.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Carry out acquisition, relocation, elevation and floodproofing measures for all homes in floodplain – not effective
Action/Project Intended for Implementation	
Description of Selected Action/Project	Identify and document repetitively flooded properties. Work with owners to explore mitigation opportunities for repetitively flooded properties, and if appropriate and feasible, carry out acquisition, relocation, elevation and floodproofing measures to protect these properties.
Mitigation Action Type	LPR, EAP
Goals Met	1, 2, 3, 5, 7
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	Low
Priority*	High
Plan for Implementation	
Responsible Organization	Each jurisdictional CPG member
Local Planning Mechanism	Hazard Mitigation, Public Education
Potential Funding Sources	Municipal Budget
Timeline for Completion	Ongoing
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Working to identify owners and initiate outreach to discuss potential mitigation actions; seeking funding

Action Number:

GV-4

Mitigation Action Name:

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

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Provide outreach to residents living in areas that are prone to flooding; educating them on what can be done to their homes
Property Protection	1	Potentially protect structures from future flood damage
Cost-Effectiveness	1	
Technical	1	
Political	0	
Legal	0	
Fiscal	1	Municipal Budget
Environmental	0	
Social	1	
Administrative	1	
Multi-Hazard	1	Flooding, Severe Storm
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (H/M/L)	High	

Action Number:

GV-5

Mitigation Action Name:

Determine the year built and level of protection for critical emergency facilities and shelters to highlight structures built before codes and standards were put in place to provide some degree of protection from natural hazards, and pursue potential mitigation opportunities to protect these sites to the 500-year or worst-case scenario as funding becomes available.

Assessing the Risk	
Hazard(s) addressed:	All Hazards
Specific problem being mitigated:	Floodprone roads can inhibit emergency response and evacuation during a flood.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Replace all critical facilities and shelters with new, up to code structures – not cost effective
Action/Project Intended for Implementation	
Description of Selected Action/Project	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.
Mitigation Action Type	LPR
Goals Met	1, 2, 5, 7
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	Building Dept. or outside engineer
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	Municipal budget
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: The action has not been discussed; must secure funding

Action Number:

GV-5

Mitigation Action Name:

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

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

Action Number:

GV-6

Mitigation Action Name:

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.

Assessing the Risk	
Hazard(s) addressed:	All
Specific problem being mitigated:	The current emergency response plans do not implement monitoring or warning systems
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Rely on outside groups to create warning systems and sheltering – no guarantee of proper warnings or shelters
Action/Project Intended for Implementation	
Description of Selected Action/Project	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.
Mitigation Action Type	LPR
Goals Met	1, 2, 5, 7
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	High
Estimated Cost	Medium
Priority*	High
Plan for Implementation	
Responsible Organization	Village Code, Planning Board and Building Dept.
Local Planning Mechanism	Hazard Mitigation, Emergency Management
Potential Funding Sources	Municipal budget
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Actively focus on reviewing emergency response plans and work to educate/involve the public

Action Number:

GV-6

Mitigation Action Name:

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.

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	1	Municipal Budget
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	All hazards
Timeline	0	
Agency Champion	1	
Other Community Objectives	0	
Total	10	
Priority (H/M/L)	High	

Action Number:

GV-7

Mitigation Action Name:

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

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Ensure all staff members are properly trained will allow for the Village to effectively enforce NFIP regulations/floodplain management ordinances.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Explore having volunteer staff enforce NFIP regulations/floodplain management ordinances – not a viable option
Action/Project Intended for Implementation	
Description of Selected Action/Project	Add/train sufficient members of staff to adequately enforce NFIP regulations/floodplain management ordinances
Mitigation Action Type	LPR
Goals Met	1, 2, 3, 7
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village Code, Planning Board and Building Dept.
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	Municipal budget
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Continue to find opportunities for staff members to become adequately trained to enforce NFIP regulations/floodplain management ordinances

Action Number:

GV-7

Mitigation Action Name:

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

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

Action Number:

GV-8

Mitigation Action Name:

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

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Current floodplain management ordinance could be out of date and less effective than current regulations require.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Update floodplain management ordinances with each new FIRM update – not time and cost effective
Action/Project Intended for Implementation	
Description of Selected Action/Project	Update/review floodplain management ordinances to be consistent with potential future new FIRMs
Mitigation Action Type	EAP
Goals Met	1, 2, 3, 7
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	High
Plan for Implementation	
Responsible Organization	Building Dept.
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	Municipal budget
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Must obtain most up-to-date FEMA data and compare with existing ordinances

Action Number:

GV-8

Mitigation Action Name:

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

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

Action Number:

GV-9

Mitigation Action Name:

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

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Future FIRMS could show the need for a more stringent flood ordinance if risk has increased.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Have staff attend courses on floodplain management but not become CFM's – lack of recognition from national organization. CRS awards points for CFM's
Action/Project Intended for Implementation	
Description of Selected Action/Project	Require staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs)
Mitigation Action Type	LPR
Goals Met	1, 2, 3, 7
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	Outside Engineer
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	Municipal budget
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Must seek funding and training and education opportunities for staff to become certified

Action Number:

GV-9

Mitigation Action Name:

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

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

Action Number:

GV-10

Mitigation Action Name:

Join the Community Rating System (CRS)

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	The Village is not in the CRS program
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Create municipal program to go above and beyond the requirements of NFIP – no flood insurance premium discounts
Action/Project Intended for Implementation	
Description of Selected Action/Project	Join the Community Rating System (CRS)
Mitigation Action Type	EAP
Goals Met	1, 2, 3, 7
Applies to existing and or new development, or not applicable	N/A
Benefits (losses avoided)	Medium
Estimated Cost	Medium
Priority*	Medium
Plan for Implementation	
Responsible Organization	Building Dept.
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	Municipal budget
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: 6/01/2017 Progress on Action/Project: Work to initiate discussion to explore benefits of joining the CRS program

Action Number: GV-10

Mitigation Action Name: Join the Community Rating System (CRS)

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

Action Number:

GV-11

Mitigation Action Name:

Replacement of Village Hall

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Storm
Specific problem being mitigated:	Village Hall located in floodplain and was destroyed during Hurricane Sandy
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Explore sharing space at another municipal facility – May not be enough space
Action/Project Intended for Implementation	
Description of Selected Action/Project	Replacement/elevation of Village Hall outside the floodplain or mitigate to the 500-year flood event
Mitigation Action Type	SIP
Goals Met	1, 2, 5, 7
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Village Board
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	FEMA/NYS Grant Funding
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	No progress, new action

Action Number: GV-11
 Mitigation Action Name: Replacement of Village Hall

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

Action Number:

GV-12

Mitigation Action Name:

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

Assessing the Risk	
Hazard(s) addressed:	All Hazard
Specific problem being mitigated:	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.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	No Action - current problem continues Request assistance from local colleges and universities in developing mapping – may not be feasible, sustainable
Action/Project Intended for Implementation	
Description of Selected Action/Project	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)
Mitigation Action Type	EAP
Goals Met	1, 2, 3, 4, 6
Applies to existing and or new development, or not applicable	New/Existing
Benefits (losses avoided)	Medium
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	Village Engineer; Planning Board
Local Planning Mechanism	Hazard Mitigation, Public Education
Potential Funding Sources	Municipal Budget
Timeline for Completion	DOF
Reporting on Progress	
Date of Status Report/ Report of Progress	No progress, new action

Action Number:

GV-12

Mitigation Action Name:

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

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