

9.24 VILLAGE OF WESLEY HILLS

This section presents the jurisdictional annex for the Village of Wesley Hills.

9.24.1 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
Camille Guido-Downey, RMC, Village Clerk 432 Route 306 Wesley Hills, New York 10952 (845) 354-0400 phone villageclerk@wesleyhills.org	Brian Brooker, Village Engineer Brooker Engineering 74 Lafayette Ave, Suite 501, Suffern NY 10901 845-357-4411
NFIP Floodplain Administrator (FPA)	
John Layne, Building Inspector 432 Route 306 Wesley Hills, New York 10952 (845) 354-0400 buildinginspector@wesleyhills.org	

9.24.2 Municipal Profile

The Village of Wesley Hills is located in the central area of the Town of Ramapo in Rockland County. It is bordered to the north, south and west by the Town of Ramapo and to the east by the Village of New Hempstead. The Village was incorporated in 1982 and covers an area of 3.4 square miles. According to the 2010 Census, the Village’s population was 5,628.

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

Table 9.24-1. 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					
Willow Subdivision	Residential	21	Greg Sikorsky Drive and Willow Road 41.11 Block 2, Lots 6, 9, 11, 12	WUI: Interface	Approved in 07-08; completed in 2010 forward
Congregation to Tiferes of Israel	Synagogue	1		Location Undetermined.	2011; needed a wetlands permit because of intermittent stream
Mikva	Synagogue structure	1		Location Undetermined.	2015 located within 100-feet of stream; went through site plan and Village wetlands permit and NYSDEC permit
Known or Anticipated Development in the Next Five (5) Years					

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
North Wesley Estates	Residential/ House of Worship	1 existing house, 3 new dwellings, 1 house of worship (expanded)	41.08 Block 1, Lots 47 and 48	WUI: Interface	Approved by Planning Board; pre-construction meeting held, construction scheduled to commence in December 2016
5 lot subdivision	Residential	To Be Determined	29 McNamara Road 41.13-1-19	WUI: Interface	Wetlands are present; may require USACE permit to fill wetlands
Edelman Subdivision	Residential	12 lots	Behind Lime Kiln School 15 Terrace Road 32.19-2-4	WUI: Interface	Not active

* Only location-specific hazard zones or vulnerabilities identified.

9.24.3 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 9.24-2. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	Rockland County Designated?	Summary of Damages/Losses
August 10, 2009	Thunderstorms	N/A	\$25,000 in damages throughout County
January 25, 2010	High Wind	N/A	\$100,000 in damages throughout County
March 13-31, 2010	Severe Storms and Flooding DR-1899	Yes	No damages provided to date.
July 19, 2010	Thunderstorms, Lightning, Wind	N/A	\$36,000 in damages throughout County
December 26-27, 2010	Severe Winter Storm and Snowstorm DR-1957	Yes	No damages provided to date.
August 25 – September 5, 2011	Hurricane Irene DR-4020	Yes	Spook Rock section roads were closed due to flooding.
October 27 – November 8, 2012	Hurricane Sandy DR-4085	Yes	Power outage throughout the Village (electric/phone/internet); Town of Ramapo addresses downed trees and Town of Ramapo police is notified and secures the area; road closures; Spook Rock area was closed and sandbagging
February 16, 2016	Strong Winds	N/A	\$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

9.24.4 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 Wesley Hills. 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 Wesley Hills.

Table 9.24-3. 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: \$225,389 2,500-Year GBS: \$4,336,259	Occasional	24	Medium
Extreme Temperature	Damage estimate not available	Frequent	18	Medium
Flood	1% Annual Chance: \$0	Frequent	36	High
Landslide	RCV Exposed: \$0	Rare	6	Low
Severe Storm	100-Year MRP: \$441,035 500-year MRP: \$1,695,803 Annualized: \$19,440	Frequent	48	High
Winter Storm	1% GBS: \$6,515,640 5% GBS: \$32,578,200	Frequent	51	High
Wildfire	Estimated Value in the WUI: \$977,078,000	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 Wesley Hills.



Table 9.24-4. 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)
Wesley Hills, Village of	26	2	\$2,806	1	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 9.24-5. 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
None identified.					

Source: Hazus-MH 3.2, Rockland County

*The Willow Tree Pump station parcel located at the intersection of Wildner Road and Forshay Road is located in the FEMA-delineated floodplain; however the pump station itself is not in the floodplain.

Other Vulnerabilities Identified

The municipality has identified the following vulnerabilities within their community:

- According to the 2014 Flood Insurance Study (FIS) for Rockland County, flooding in the Village generally occurs during the spring and fall seasons. In the spring, snowmelt adds to heavy rains to produce increased runoff; in the fall, flooding can occur due to hurricane activity. Flooding issues in the Village are typically caused by inadequate channel capacities and culvert sizes (FEMA FIS 2014).
- There are 85 parcels located in the 1-percent annual chance floodplain.
- The Spook Rock area roads have flooded due to heavy rains.
- Wesley Chapel Culvert is in need of replacement.

9.24.5 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 Wesley Hills.

Table 9.24-6. 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	No			
Stormwater Management Plan	Yes		Village Engineer	Village Participates in the Stormwater Consortium
Open Space Plan	No			
Stream Corridor Management Plan	No			
Watershed Management or Protection Plan	No			
Economic Development Plan	No			
Comprehensive Emergency Management Plan	Yes, April 2016		Village Clerk	
Emergency Operation Plan	Yes (same as above)		Village Clerk	
Post-Disaster Recovery Plan	No			
Transportation Plan	No			
Strategic Recovery Planning Report	No			
Other Plans:				
Regulatory Capability				
Building Code	Yes	State & Local	Building Inspector	Village has been established since 1982; Complies with State Building Code and International Code when applicable
Zoning Ordinance	Yes 1984	Local	Zoning	Chapter 230 – Zoning
Subdivision Ordinance	Yes 1984	Local	Planning Board	Chapter 193 – Subdivision of Land
NFIP Flood Damage Prevention Ordinance	Yes 2014	Federal, State, Local	Building Inspector	Chapter 119 – Flood Damage Prevention
NFIP: Cumulative Substantial Damages	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.)
NFIP: Freeboard	Yes	State, Local	Building Inspector	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		Planning Board	Site Plan review conducted by the Planning Board; if joint is needed zoning is involved as well.
Stormwater Management Ordinance	Yes	Local	Village	Chapter 181 – Stormwater Management
Municipal Separate Storm Sewer System (MS4)	Yes	Local	Village	Chapter 181 – Stormwater Management
Natural Hazard Ordinance	No			
Post-Disaster Recovery Ordinance	No			
Real Estate Disclosure Requirement	Yes	State		NYS mandate, Property Condition Disclosure Act, NY Code - Article 14 §460-467
Other (Special Purpose Ordinances [i.e., sensitive areas, steep slope])	Yes	Local	Village	Chapter 221 – Wetlands Chapter 230-26-3 - Steep Slopes in Special Permit section of Zoning Law

Administrative and Technical Capability

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

Table 9.24-7. 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	Yes	Every 4 years outfalls are inspected, last completed in October 2016; 20% of catch basins were also inspected above what the Town maintains on a yearly basis; If big storm is approaching, the Village sends email blasts to notify residents; weather notifications to residents
Mutual aid agreements	Yes	Town of Ramapo covers police services (no formal agreement), and highway and maintenance services (agreement in place)
Technical/Staffing Capability		
Planner(s) or engineer(s) with knowledge of land development and land management practices	Yes	Contract through Brooker Engineering (Village Engineer) Jeff Osterman Planner - consultant

Resources	Is this in place? (Yes or No)	Department/ Agency/Position
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	Yes	
Planners or engineers with an understanding of natural hazards	Yes	All municipal employees
NFIP Floodplain Administrator (FPA)	Yes	Building Inspector – John Layne
Surveyor(s)	Yes	Brooker Engineering has surveyors on staff
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	Yes	Brooker Engineering and Village have access to County GIS portal
Scientist familiar with natural hazards	Yes	Contract through Brooker Engineering or elsewhere as needed
Emergency Manager	Yes	Mayor
Grant writer(s)	Yes	Sylvia Welch – consultant
Staff with expertise or training in benefit/cost analysis	Yes	Mayor or Brooker Engineering
Professionals trained in conducting damage assessments	Yes	Brooker Engineering

Fiscal Capability

The table below summarizes financial resources available to the Village of Wesley Hills.

Table 9.24-8. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	There is an informal road maintenance plan to resurface roads and look at current budget to address. CHIPS funds have also be used to implement. Each year the Mayor goes out with a Trustee or the Village Clerk and ranks the roads; then discusses with Village Engineer what is above/beyond (2016 \$150K in budget and offset by the CHIPS funding).
Authority to levy taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	No
Impact fees for homebuyers or developers of new development/homes	Yes (\$5K per lot created – recreational fee for subdivided lots)
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	No
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes – NYS DOT Grant Programs such as BRIDGE, NY PAVE, CHIPS; Dormitory Authority
Open Space Acquisition funding programs	No
Other	

Community Classifications

The table below summarizes classifications for community program available to the Village of Wesley Hills.

Table 9.24-9. 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	MS4 outreach through the Stormwater Consortium; Village website; Village email list; Village newsletter	
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 Wesley Hills’s capability to work in a hazard-mitigation capacity and/or effectively implement hazard mitigation strategies to reduce hazard vulnerabilities.

Table 9.24-10. 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	X
Administrative and technical capability			X
Fiscal capability		X	X – not running at deficit
Community political capability		X	X
Community resiliency capability			X
Capability to integrate mitigation into municipal processes and activities			X

Notes: A response in both moderate and high indicates the Village’s response is moderate-to-high capability for noted capability.

National Flood Insurance Program

NFIP Floodplain Administrator (FPA)

Building Inspector, John Layne

Flood Vulnerability Summary

The Village maintains a file with properties that have requested permits to repair/replace as a result of flood/storm events. The Village does not have record of substantial damages to private property as result of Hurricanes Irene and Sandy. To the Village’s knowledge, there is no interest in mitigation (elevation or acquisition) and there are no properties in the process of mitigation.

Resources

The Village Engineer (consultant – currently Brooker Engineering) assists the NFIP FPA with the responsibilities of floodplain administration. NFIP services provided by the NFIP FPA are completed as requested and per the local flood ordinance. The Village participates in the Rockland County Stormwater Consortium.

The NFIP FPA feels adequately supported and trained to fulfill their responsibilities as the municipal floodplain administrator. The FPA would consider attending continuing education and/or certification training on floodplain management if it was offered in the county.

Compliance History

The Village is in good standing with the NFIP; the date of their last Community Assistance Visit is unknown at this time.

Regulatory

The Village’s local flood ordinance meets the FEMA and State minimum requirements. The Village NFIP FPA, Village Engineer, and Village Planning and Zoning Boards address floodplain issues. The Village and Planning Boards review all site plans, and addresses environmental issues including presence of wetlands. To develop within 100 feet of any regulated or non-regulated water or wetland, you need to apply to the Planning Board for a permit; the Rockland County drainage agency also reviews the application.

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

The Village maintains a Planning Board and has a Village Planner on contract. The Village does not have a Master Plan.

Regulatory and Enforcement

Flood Damage Prevention Ordinance, Chapter 119: The purpose of the ordinance is to promote public health, safety, and general welfare and to minimize public and private losses due to flood conditions in specific areas by provisions designed to:

- Regulate uses which are dangerous to health, safety and property due to water or erosion hazards or which result in damaging increases in erosion or in flood heights or velocities;
- Require that uses vulnerable to floods, including facilities which serve such uses, be protected against flood damage at the time of initial construction;
- Control the alteration of natural floodplains, stream channels, and natural protective barriers which are involved in the accommodation of floodwaters;
- Control filling, grading, dredging and other development which may increase erosion or flood damages;
- Regulate the construction of flood barriers which will unnaturally divert floodwaters or which may increase flood hazards to other lands; and
- Qualify for and maintain participation in the National Flood Insurance Program.

The objectives of this chapter are to:

- Protect human life and health;
- Minimize expenditure of public money for costly flood-control projects;
- Minimize the need for rescue and relief efforts associated with flooding and generally undertaken at the expense of the general public;
- Minimize prolonged business interruptions;
- Minimize damage to public facilities and utilities, such as water and gas mains, electric, telephone and sewer lines, streets and bridges located in areas of special flood hazard;
- Help maintain a stable tax base by providing for the sound use and development of areas of special flood hazard so as to minimize future flood-blight areas;
- Provide that developers are notified that property is in an area of special flood hazard; and
- Ensure that those who occupy the areas of special flood hazard assume responsibility for their actions.

The Building Inspector is appointed local administrator to administer and implement the flood damage prevention ordinance by granting or denying floodplain development permits in accordance with its provisions. The Building Inspector consults with the Village Engineer regarding floodplain management.

Stormwater Management, Chapter 181: The purpose of this code is to establish minimum stormwater management requirements and controls to protect and safeguard the general health, safety, and welfare of the public residing within this jurisdiction. The code tends to meet those purposes by achieving the following objectives:

- Meet the requirements of minimum measures 4 and 5 of the SPDES general permit for stormwater discharges from municipal separate stormwater sewer systems (MS4s), Permit No. GP-02-02, or as amended or revised;
- Require land development activities to conform to the substantive requirements of the NYS Department of Environmental Conservation State Pollutant Discharge Elimination System (SPDES) general permit for construction activities, Permit No. GP-02-01, or as amended or revised;
- Minimize increases in stormwater runoff from land development activities in order to reduce flooding, siltation, increases in stream temperature, and stream bank erosion and maintain the integrity of stream channels;
- Minimize increases in pollution caused by stormwater runoff from land development activities which would otherwise degrade local water quality;
- Minimize the total annual volume of stormwater runoff which flows from any specific site during and following development to the maximum extent practicable; and
- Reduce stormwater runoff rates and volumes, soil erosion and nonpoint source pollution, wherever possible, through stormwater management practices and to ensure that these management practices are properly maintained and eliminate threats to public safety.

Illicit Discharges (Article II of Chapter 181): The purpose of this code is to provide for the health, safety, and general welfare of the citizens of the Village of Wesley Hills through the regulation of non-stormwater discharges to the municipal separate storm sewer system (MS4) to the maximum extent practicable as required by federal and New York State law. The code establishes methods for controlling the introduction of pollutants into the MS4 in order to comply with requirements of the SPDES general permit for municipal separate storm sewer systems. The objectives of this code are to:

- Meet the requirements of the SPDES general permit for stormwater discharges from MS4s, Permit No. GP-02-02, or as amended or revised;
- Regulate the contribution of pollutants to the MS4 since such systems are not designed to accept, process or discharge non-stormwater wastes;
- Prohibit illicit connections, activities and discharges to the MS4;
- Establish legal authority to carry out all inspection, surveillance and monitoring procedures necessary to ensure compliance with this article; and
- Promote public awareness of the hazards involved in the improper storage and/or discharge of trash, yard waste, lawn chemicals, pet waste, wastewater, grease, oil, petroleum products, cleaning products, paint products, hazardous waste, sediment, snow and ice control materials, and other pollutants into the MS4.

Subdivision of Land, Chapter 193: The Village considers land subdivisions as part of a plan for the orderly, efficient and economical development of the Village. Land to be subdivided needs to be used safely for building or development purposes without danger to health or peril from fire, flood or other menace, and without resulting in significant damage to the ecology of the area in which it is located. Proper provision must be made for drainage, water, sewerage, electricity, telephone, gas, and other needed improvements. The proposed streets need to compose a convenient and safe system and be properly related to potential streets on adjoining properties. Streets need to be of certain width, grade and location as to accommodate prospective traffic, to afford adequate light and air, and to facilitate fire and police protection. In proper cases, and when required by the Planning Board, a park or parks of suitable location, size, and character for playground or other recreational purposes shall be shown on the subdivision plat.

The Board of Trustees has authorized the Planning Board to review and approve or disapprove subdivision plats showing lots, blocks or sites, with or without roads, within the area of the Village.

Wetlands, Chapter 221: The Wetlands and Stream Protection code implements the Freshwater Wetlands Act of the State of New York (Article 24 of the Environmental Conservation Law) and applies to property within the Village. It promotes the public purposes identified by providing for the protection, preservation, proper maintenance and use of the Village's wetlands, water bodies and watercourses by preventing or minimizing erosion due to flooding and stormwater runoff, by maintaining the natural groundwater supplies, preserving and protecting the purity, utility, water retention capability, ecological functions, recreational usefulness and natural beauty of all wetlands, waterbodies and other related features and by providing and protecting appropriate habitats for natural wildlife.

The Village has a mandatory 100-foot regulatory setback from a waterbody or wetland. Any development within this distance triggers a permit from the Planning Board. The Village Planner and Engineer review any impacts that may occur due to development within the 100-feet.

Zoning, Chapter 230: The Village has four residential zones R-50, R-35, R-20 & R-15 and a Neighborhood Shopping (NS) zone. The numbers in the zone designations above refer to the minimum number of square feet required for a residential property within that zone (subject to any variances that may have been granted for a specific property).

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.

Operational and Administration

Village Board: The Village Board is an elected body, consisting of the Mayor and 4 Trustees, which is responsible for enacting Village laws and establishing Village policy. Board meetings are held on the 1st and 3rd Tuesday of the month (subject to change).

Planning Board: The Village Planning Board meets on the 4th Wednesday of every month (subject to change). The board consists of members of the community appointed by the Village Board who are assisted by a Village Attorney, Engineering Consultant and Planning Consultant. The board considers applications related to special use permits, wetlands, architectural reviews, changes to lot lines and subdivisions, and clearing, excavation and filling permits. The Planning Board is responsible for all special permits for property use, such as:

- Business and Professional Offices
- Wireless Communications Services
- Tennis Courts
- Satellite Dishes
- Home Occupations
- Religious Uses

Zoning Board of Appeals: The Village Zoning Board of Appeals meets on the 3rd Wednesday of every month (subject to change). The board consists of members of the community appointed by the Village Board who are assisted by a Village Attorney. The board considers applications for variances from the village's Zoning Code.

Funding

Operating Budget: The Village budget contains line items for maintenance of roads (sidewalks, curb replacement, snow removal, and highway improvements).

Grants: The Village has applied for funding through numerous State Department of Transportation grant funding programs including the following: BRIDGE NY, Consolidated Local Street and Highway Improvement Program (CHIPS); and PAVE-NY for the rehabilitation and reconstruction of local roads. The Village also received funding through the Dormitory Authority for Village Hall improvements. The Village has not applied for FEMA mitigation grants to date.

Education and Outreach

The Village maintains a website that provides links to the various municipal departments, local laws and planning documents, Village newsletter, news updates, and links to local, county, state and federal governments. Residents are also informed through an email blast initiated by the Village (1,000 to 1,200 residents). Village Hall also has smart televisions and has recently had a cable service upgrade to display presentations and messages.

Stormwater Education Program: Cornell University Cooperative Extension (CCE) Rockland County provides each MS4 community with education, outreach, and involvement in order to satisfy the NYSDEC Stormwater Phase II Regulations. CCE provides educational outreach to the Village by focusing on the Village's impact on stormwater through best management practices; proper landscape and facility maintenance; pollution prevention for businesses; proper disposal of trash and hazardous waste; water conservation; and low-impact development. This outreach is done by workshops, news articles, public service announcements, information center, CCE's website, monthly visits, and site visits.

Indian Point Nuclear Power Plant: Wesley Hills falls within the 10-mile radius of the Indian Point Nuclear Power Plant. There are local sirens that will sound in case of an emergency at the plant. Each house in Wesley Hills receives in the mail information on emergency planning related to the plant annually.

9.24.6 Mitigation Strategy and Prioritization

This section discusses past mitigation 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 HMP. 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 9.24-11. 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 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
No Action Number in 2010 HMP	Replacement and upgrade of Wesley Chapel Culvert	Engineering	No progress	There has been no available funding to complete this project. The Village has applied under NY grant programs to address.	Include in 2018 HMP	Include as is
No Action Number in 2010 HMP	Repair spillway cap at Wesley Chapel Dam #1	Engineering	No progress	Privately owned dam; flagged by the NYSDEC regarding what is needed after their inspection. The Village has no jurisdiction on the dam. Previous mayors have reached out to the private dam owner.	Discontinue	
No Action Number in 2010 HMP	Repair damaged wall along Spook Rock Rd. containing Wesley Chapel Pond #2	Engineering	No progress	Spook Rock Road is owned by Rockland County; Village has no jurisdiction. Rockland County is scheduled to repair next year or in the near future.	Discontinue	Include in the Rockland County annex as part of their mitigation strategy. The Village will coordinate with the County as needed on this project. Refer to action X in Table 9.24-13.
No Action Number in 2010 HMP	Upgrade culvert at Joy Road and Spook Rock Road	Engineering	No progress	0% complete; no funding available. The Village will examine and evaluate this project further with Brooker Engineering.	Include in 2018 HMP	Include as is

<u>Action Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2018 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
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	0% progress; Board has discussed this item but has not decided if they will move forward and develop a comprehensive plan for the Village. The Village is fully developed so from a planning perspective this may not be a cost-effective measure. With the exception of the new development noted earlier in this annex, the only other potential is redevelopment.	Include in 2018 HMP	



<u>Action Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2018 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
2.A	Expand and disseminate GIS and other hazard information on the internet.	CPG member; Village Trustee	In progress	<p>The Village outfall locations have been captured by GPS. Through the Stormwater Consortium, a mapping effort is underway to incorporate Village and Town outfall data; however method of data standardization is still to be determined. The Village has the funding set aside to meet this obligation for the MS4 permit (2016 allocated and move forward to the 2017 budget) once an action plan is in place through the Stormwater Consortium and Rockland County.</p> <p>The Village staff have been trained in and utilize the Rockland County GIS web map portal. The Village engineer also has GIS analysts and performs GIS work as needed.</p>	Include in 2018 HMP	The Village, through its participation in the Stormwater Consortium, will provide and ensure their stormwater outfall data is included in the Rockland County GIS web portal. The Village has the funding set aside to meet this obligation for the MS4 permit (2016 allocated and move forward to the 2017 budget) once an action plan is in place through the Stormwater Consortium and Rockland County.

<u>Action Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2018 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
	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	In progress	The Village has an emergency plan that was implemented in April 2016. The Village can utilize their email blast system to reach residents as well as the reverse 911 systems in place through Rockland County. Emergencies are handled through the Town Police and DPW, Sheriff's Dept. and Rockland County Emergency Task Force. Wesley Hills falls within the 10-mile radius of the Indian Point Nuclear Power Plant. Pamphlets are available at Village Hall. There are local sirens that will sound in case of an emergency at the plant.	Discontinue	The education, awareness and outreach conducted by the Village is a current capability. This will not be carried forward into the 2018 HMP update as a mitigation action.
	Hold periodic workshops regarding zoning and planning issues that arise regarding natural hazards and hazard mitigation.	CPG member; Village Trustee	No progress	Willow Brook is the only FEMA mapped floodplain. The Village already adopted the new FEMA FIRMs; no further work has been done. Holding periodic workshops regarding zoning and planning issues in the floodplain is not a priority to the Village due to the limited area within the floodplain.	Discontinue.	

<u>Action Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2018 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
4.F	Continue to implement best management practices for floodplain areas.	CPG member; Village Trustee	In progress	<p>This is currently performed through the Planning and Zoning Boards, Building Department, Site Plan review; any structure built goes through Site Plan review at the Building Department.</p> <p>100-ft regulatory setback and triggers a permit from the planning board. Engineering office and the Planner reviews any impacts that may occur due to development in the 100-feet.</p>	Discontinue.	Implementing best management practices in floodplain areas is currently a capability of the Village Engineer, Village Planner, and Village NFIP Floodplain Administrator (Building Inspector). This will not be carried forward into the 2018 HMP update as a mitigation action.
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	In progress	<p>The Village has only had one letter of map revision in 8-10 years. If a permit is needed to repair/upgrade, then the Village has the documentation regarding flood damage and is filed by the property address/block/lot. There is no list or log of flooded properties.</p> <p>Zoning is R-35 or R-50; the Village has large lots which allows the house situated far enough from the stream and houses are higher through natural grade.</p>	Discontinue.	

<u>Action Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2018 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
4.J	Develop specific mitigation solutions for floodprone road systems (roads, bridges, intersections, drainage, etc.) under the leadership of County DPW.	CPG member; Village Trustee	In progress	Every time it floods at the wall along Spook Rock Road; residents call the County to fix; still needed to be addressed. Corner of Spook Rock and Wesley Chapel floods. When Wesley Chapel was paved they regraded the intersection with the Town and this alleviated the ponding. This was handled through the Road Improvement program.	Include in 2018 HMP	The Village will continue to work with Rockland County DPW and the Town to address floodprone road systems. Refer to the mitigation action Table 9.24-13 regarding working with Rockland County to fix the wall along Spook Rock Road.
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	Village Hall is the only critical facility in the Village that is owned by the Village. It is in compliance with current code.	Discontinue	
11.B	Review existing emergency response plans for enhancement opportunities: work with social support agencies, homeowners associations and general public to develop and implement monitoring and warning systems focused on vulnerable populations and provision of adequate shelter facilities.	CPG member; Village Trustee	Complete	The Village Emergency Plan was completed this year (2016). Village staff attend emergency response training provided by the County, SUEZ Water, and Orange & Rockland Utilities. The Village has many ways in which to communicate to residents as noted in this annex (e.g., Village Hall pamphlets, Village website, email blasts, utilizing the County reverse 911 systems, etc).	Discontinue	

Action Number	2010 Mitigation Action	Responsible Party	Status (In progress, No progress, Complete)	Describe Status 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	Next Step (Include in 2018 HMP or Discontinue)	Describe Next Step 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
No Action Number in 2010 HMP	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	In progress	<p>The Village belongs to Cornell Cooperative Extension and they disseminate public announcements; announcements are also disseminated through SUEZ Water and Orange & Rockland Utilities.</p> <p>The Village provides residents information through their website (information and links to other sites) and newsletter; the Fire inspector posts CO safety, oven safety and other seasonal messages.</p> <p>The Village makes State and County organizations brochures available at Village Hall. The Smart TVs in Village Hall display PowerPoint presentations and information about meetings to residents.</p>	Include in 2018 HMP	Revised action: Obtain a wall-mounted display rack from Rockland County Office of Fire and Emergency Services to display informational brochures in Village Hall. Action completed since draft of 2018 HMP.
No Action Number in 2010 HMP	Code update: review existing local codes and ordinances against the identified hazards to determine whether there needs to be any amendments to address identified hazards and, where a need is identified; modify/amend the codes/ordinances as applicable.	Each jurisdictional CPG member	In progress.	<p>The Village Engineer reviews the code every time there is an application for a building, and applications are reviewed by the Planning and Zoning boards. In addition, codes are reviewed and revised as needed by revised State requirements. In 2016, 5 local laws were adopted in 2016 and three more are anticipated in 2017.</p> <p>For example, there is a moratorium for wireless communication based on the FCC updates.</p>	Discontinue	A review and update of the code is an on-going program at the Village. The Village staff will continue to implement this service. This is considered a capability and will not be included as a mitigation action in the 2018 HMP update.

<u>Action Number</u>	<u>2010 Mitigation Action</u>	<u>Responsible Party</u>	<u>Status</u> (In progress, No progress, Complete)	<u>Describe Status</u> 1. Please describe what was accomplished and indicate % complete. 2. If there was no progress, indicate what obstacles/delays encountered? 3. If there was progress, how is/was the action being funded (e.g., FEMA HMGP grant, local budget)?	<u>Next Step</u> (Include in 2018 HMP or Discontinue)	<u>Describe Next Step</u> 1. If including action in the 2018 HMP, revise/reword to be more specific (as appropriate). 2. If discontinue, explain why.
No Action Number in 2010 HMP	Code enforcement: enforcement of NYS and local building codes	Each jurisdictional CPG member	In progress	The Village enforces the NYS and local building codes. The Village has a NYS-certified code enforcement officer; and NYS-certified building inspector and NYS-code inspector for Fire. Certifications are kept current; and these professionals continue to seek continuing education through the Village's support.	Discontinue	This is considered a capability and will not be included as a mitigation action in the 2018 HMP update.
No Action Number in 2010 HMP	Update/revise floodplain management ordinance to comply with latest FEMA regulations	Village Board, Village Attorney	Complete.	The floodplain ordinance was updated when the FEMA FIRMs were adopted and State minimum requirements increased to BFE+2 feet.		
No Action Number in 2010 HMP	Require staff involved in floodplain management and ordinance enforcement to become Certified Floodplain Managers (CFMs)	Building Department	No progress	Brooker Engineering has 2 CFMs on staff. The Building Inspector is the FPA; he typically calls the Village Engineer to discuss before making determinations.	Include in the 2018 HMP update	Require the Building Inspector, the Village's NFIP Floodplain Administrator, to obtain his CFM certification.
No Action Number in 2010 HMP	Join the Community Rating System (CRS)	Village Board	No progress	Flooding is not a significant hazard of concern to the Village. It is not cost-effective for the Village to join and participate in CRS.	Discontinue	

Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy

The Village of Wesley Hills 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:

- A generator was purchased and installed at Village Hall. Village Hall now serves as a charging center; warning/cooling center/shelter as needed.
- After Hurricane Floyd, the Village secured DOT funding to replace the Willow Tree bridge because culvert collapsed and sinkhole formed.
- Rockland County completed the full-replacement of the bridge on Grand View (October 2016); problem area that was addressed.

Proposed Hazard Mitigation Initiatives for the Plan Update

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

Table 9.24-12 summarizes the comprehensive-range of specific mitigation initiatives the Village of Wesley Hills 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 9.24-13 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.

Table 9.24-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
WH-1 (2010 action; no number)	Replace the Wesley Chapel culvert; lost its headwalls and is exposed block; lost the guardrail a few times and the Town of Ramapo has secured each time repairing and re-mortaring the block.	Existing	Flood, Severe Storm	1, 2	Village Engineer	High	High	BRIDGE NY Department of Transportation Grant; Earmark	In Progress (BRIDGE NY Grant Application)	High	SIP	PP
WH-2 (2010 action; no number)	Upgrade culvert at Joy Road and Spook Rock Road	Existing	Flood, Severe Storm	1, 2	Village Engineer	High	High	FEMA HMA, State, Local	Short (DOF)	High	SIP	PP
WH-3 (new)	Culvert on VanWinkle – maintenance and repair to existing culverts that are silted over and need the inlets and outlets cleaned of debris in 2017 (\$15,000); funding through earmark Senator Thomas P. Morahan	Existing	Flood, Severe Storm	1, 2	Village Engineer	High	High	Local	Short (DOF)	High	SIP	PP
WH-4 (revised 2010 action 2A)	The Village, through its participation in the Stormwater Consortium, will provide and ensure their stormwater outfall data is included in the Rockland County GIS web portal. The Village has the funding set aside to meet this obligation for the MS4 permit (2016 allocated and move forward to the 2017 budget) once an action plan is in place through the Stormwater Consortium and Rockland	N/A	Flood, Severe Storm	1, 2, 5, 7	Village Engineer	High	Medium-Low	Local	Short (DOF)	High	LPR	PR

Table 9.24-12. Proposed Hazard Mitigation Initiatives

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	County.											
WH-5 (previous #4J in 2010 HMP)	The Village will continue to work with Rockland County DPW and the Town to address floodprone road systems. For example, Rockland County to repair damaged wall along Spook Rock Rd. containing Wesley Chapel Pond #2. Spook Rook to the confluence of the Mahwah in danger – County-led project.	Existing	Flood, Severe Storm	1, 2	Rockland County DPW and Town DPW; The Village will coordinate as needed	High	High	FEMA HMA, State, Local	Short (DOF)	High	SIP	PP
WH-6 (new)	There is an old dam and spillway that is not regulated by the NYSDEC but regulated by USACE and there is an associated wetland. Not an imminent failure but is in need of repair. Install walking paths in Bokar Park and connect to Willow Tree Park (Town owned). These improvements will require a joint permit for USACE and NYSDEC for stream disturbance to enhance the park system in the Town by having a Village feature.	Existing	Flood, Severe Storm	1, 2	Village Engineer; Town of Ramapo; USACE; NYSDEC	High	High	Federal, State, Local	Short (DOF)	High	SIP	PP
WH-7 (2010 action;	The Building Inspector, the NFIP Floodplain Administrator, obtain his	Both	Flood	3, 5	Building Inspector	High	Low	Village Budget	Short	Medium	EAP	PI, ES



Table 9.24-12. Proposed Hazard Mitigation Initiatives

Initiative no number)	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category	CRS Category
	Certified Floodplain Managers certification.											

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:

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

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 9.24-13. 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
WH-1 (2010 action; no number)	Replace the Wesley Chapel culvert; lost its headwalls and is exposed block; lost the guardrail a few times and the Town of Ramapo has secured each time repairing and re-mortaring the block.	1	1	1	1	1	1	0	0	0	1	1	1	1	1	11	High
WH-2 (2010 action; no number)	Upgrade culvert at Joy Road and Spook Rock Road	1	1	1	1	1	1	0	0	0	1	1	1	1	1	11	High
WH-3 (new)	Culvert on VanWinkle – maintenance and repair to existing culverts that are silted over and need the inlets and outlets cleaned of debris in 2017 (\$15,000); funding through earmark Senator Thomas P. Morahan	1	1	1	1	1	1	1	0	0	1	1	1	1	1	12	High
WH-4 (revised 2010 action 2A)	The Village, through its participation in the Stormwater Consortium, will provide and ensure their stormwater outfall data is included in the Rockland County GIS web portal. The Village has the	0	1	1	1	1	1	1	0	0	1	1	1	1	1	11	High

Table 9.24-13. 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
	funding set aside to meet this obligation for the MS4 permit (2016 allocated and move forward to the 2017 budget) once an action plan is in place through the Stormwater Consortium and Rockland County.																
WH-5 (previous #4J in 2010 HMP)	The Village will continue to work with Rockland County DPW and the Town to address floodprone road systems. For example, Rockland County to repair damaged wall along Spook Rock Rd. containing Wesley Chapel Pond #2. Spook Rook to the confluence of the Mahwah in danger – County-led project.	1	1	1	1	1	1	0	0	0	1	1	1	1	1	10	High
WH-6 (new)	There is an old dam and spillway that is not regulated by the NYSDEC but regulated by USACE and there is an associated wetland. Not an imminent	1	1	1	1	1	1	0	0	0	0	1	1	1	0	9	High

Table 9.24-13. 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
	<p>failure but is in need of repair. Install walking paths in Bokar Park and connect to Willow Tree Park (Town owned).</p> <p>These improvements will require a joint permit for USACE and NYSDEC for stream disturbance to enhance the park system in the Town by having a Village feature.</p>																
WH-7 (2010 action; no number)	The Building Inspector, the NFIP Floodplain Administrator, obtain his Certified Floodplain Managers certification.	0	0	1	1	1	1	1	0	0	1	1	1	1	0	9	Medium

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

9.24.7 Future Needs To Better Understand Risk/Vulnerability

None at this time.

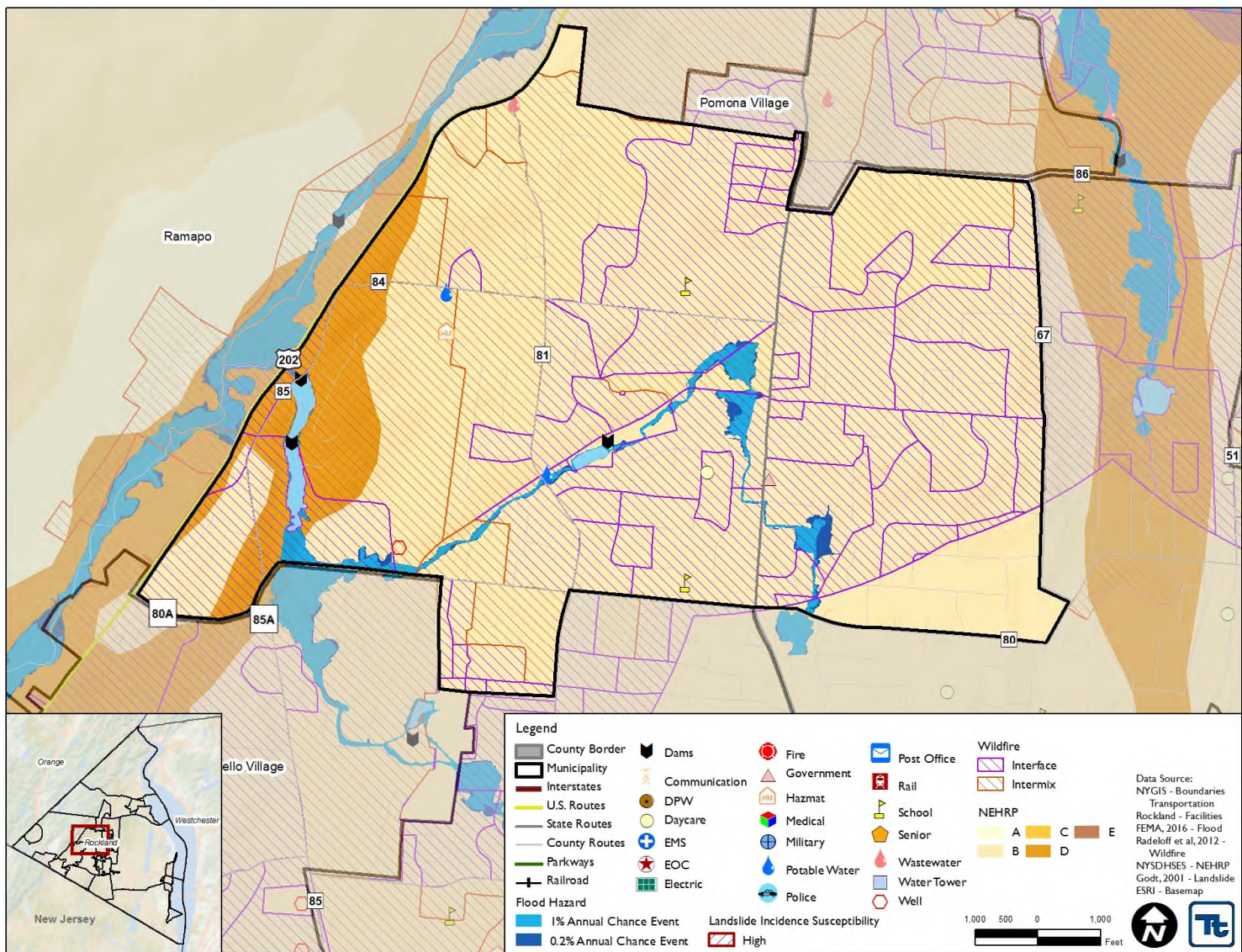
9.24.8 Hazard Area Extent and Location

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

9.24.9 Additional Comments

None at this time.

Figure 9.24-1. Village of Wesley Hills Hazard Area Extent and Location



Action Number: WH-1 (2010 action; no number)
Mitigation Action Name: Replace the Wesley Chapel culvert

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Storm
Specific problem being mitigated:	Wesley Chapel culvert lost its headwalls and has exposed block
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Continue to repair and remortar block – problem likely to recur
Action/Project Intended for Implementation	
Description of Selected Action/Project	Replace the Wesley Chapel culvert; lost its headwalls and is exposed block; lost the guardrail a few times and the Town of Ramapo has secured each time repairing and re-mortaring the block.
Mitigation Action Type	SIP
Goals Met	1, 2
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Village Engineer
Local Planning Mechanism	Hazard Mitigation, Capital Improvement
Potential Funding Sources	BRIDGE NY Department of Transportation Grant; Earmark
Timeline for Completion	In Progress (BRIDGE NY Grant Application)
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number: WH-1 (2010 action; no number)
Mitigation Action Name: Replace the Wesley Chapel culvert

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Prevent the culvert from being damaged by future events
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	Need funding
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	Flood, Severe Storm
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	
Total	11	
Priority (H/M/L)	High	

Action Number: WH-2 (2010 action; no number)
Mitigation Action Name: Upgrade culvert at Joy Road and Spook Rock Road

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Storm
Specific problem being mitigated:	Undersized culvert
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Raise roadways to remove flood risk – costly, flooding continues
Action/Project Intended for Implementation	
Description of Selected Action/Project	Upgrade culvert at Joy Road and Spook Rock Road
Mitigation Action Type	SIP
Goals Met	1, 2
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Village Engineer
Local Planning Mechanism	Hazard Mitigation, Capital Improvement
Potential Funding Sources	FEMA HMA, State, Local
Timeline for Completion	Short (DOF)
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number: WH-2 (2010 action; no number)
Mitigation Action Name: Upgrade culvert at Joy Road and Spook Rock Road

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
Property Protection	1	Reduce / prevent flooding at Joy and Spook Rock Roads
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	
Fiscal	0	Need funding
Environmental	0	
Social	0	
Administrative	1	
Multi-Hazard	1	Flood, Severe Storm
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	
Total	11	
Priority (H/M/L)	High	

Action Number: WH-3 (new)

Mitigation Action Name: Culvert on VanWinkle

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Storm
Specific problem being mitigated:	Existing culverts are silted over and in need of being repaired and cleaned.
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Replace culvert - cost
Action/Project Intended for Implementation	
Description of Selected Action/Project	Culvert on VanWinkle – maintenance and repair to existing culverts that are silted over and need the inlets and outlets cleaned of debris in 2017 (\$15,000); funding through earmark Senator Thomas P. Morahan
Mitigation Action Type	SIP
Goals Met	1, 2
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Village Engineer
Local Planning Mechanism	Hazard Mitigation, Capital Improvement
Potential Funding Sources	Local
Timeline for Completion	Short (DOF)
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:
Mitigation Action Name:

WH-3 (new)
Culvert on VanWinkle

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	Flood, Severe Storm
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	
Total	12	
Priority (H/M/L)	High	

Action Number:

WH-4 (revised 2010 action 2A)

Mitigation Action Name:

The Village, through its participation in the Stormwater Consortium, will provide and ensure their stormwater outfall data is included in the Rockland County GIS web portal

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Storm
Specific problem being mitigated:	Need to provide their stormwater outfall data to Rockland County
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Request assistance from local colleges and universities in developing GIS mapping – may not be feasible, sustainable
Action/Project Intended for Implementation	
Description of Selected Action/Project	The Village, through its participation in the Stormwater Consortium, will provide and ensure their stormwater outfall data is included in the Rockland County GIS web portal. The Village has the funding set aside to meet this obligation for the MS4 permit (2016 allocated and move forward to the 2017 budget) once an action plan is in place through the Stormwater Consortium and Rockland County.
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-Low
Priority*	High
Plan for Implementation	
Responsible Organization	Village Engineer
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	Local
Timeline for Completion	Short (DOF)
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

WH-4 (revised 2010 action 2A)

Mitigation Action Name:

The Village, through its participation in the Stormwater Consortium, will provide and ensure their stormwater outfall data is included in the Rockland County GIS web portal

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
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	Flood, Severe Storm
Timeline	1	
Agency Champion	1	
Other Community Objectives	1	
Total	11	
Priority (H/M/L)	High	

Action Number: WH-5 (previous #4J in 2010 HMP)
Mitigation Action Name: The Village will continue to work with Rockland County DPW and the Town to address floodprone road systems

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Storm
Specific problem being mitigated:	Several areas in the Village are floodprone and need to be addressed
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Relocate floodprone roadways – not feasible
Action/Project Intended for Implementation	
Description of Selected Action/Project	The Village will continue to work with Rockland County DPW and the Town to address floodprone road systems. For example, Rockland County to repair damaged wall along Spook Rock Rd. containing Wesley Chapel Pond #2. Spook Rook to the confluence of the Mahwah in danger – County-led project.
Mitigation Action Type	SIP
Goals Met	1, 2
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Rockland County DPW and Town DPW; The Village will coordinate as needed
Local Planning Mechanism	Hazard Mitigation
Potential Funding Sources	FEMA HMA, State, Local
Timeline for Completion	Short (DOF)
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

WH-5 (previous #4J in 2010 HMP)

Mitigation Action Name:

The Village will continue to work with Rockland County DPW and the Town to address floodprone road systems

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

Action Number: WH-6 (new)

Mitigation Action Name: Repair old dam and spillway in Village

Assessing the Risk	
Hazard(s) addressed:	Flood, Severe Storm
Specific problem being mitigated:	The dam in the village is need of repair
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - current problem continues Replace dam and spillway - costly
Action/Project Intended for Implementation	
Description of Selected Action/Project	There is an old dam and spillway that is not regulated by the NYSDEC but regulated by USACE and there is an associated wetland. Not an imminent failure but is in need of repair. Install walking paths in Bokar Park and connect to Willow Tree Park (Town owned). These improvements will require a joint permit for USACE and NYSDEC for stream disturbance to enhance the park system in the Town by having a Village feature.
Mitigation Action Type	SIP
Goals Met	1, 2
Applies to existing and or new development, or not applicable	Existing
Benefits (losses avoided)	High
Estimated Cost	High
Priority*	High
Plan for Implementation	
Responsible Organization	Village Engineer; Town of Ramapo; USACE; NYSDEC
Local Planning Mechanism	Hazard Mitigation, Capital Improvement
Potential Funding Sources	Federal, State, Local
Timeline for Completion	Short (DOF)
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number: WH-6 (new)
Mitigation Action Name: Repair old dam and spillway in Village

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	0	Need funding
Environmental	0	
Social	0	
Administrative	0	
Multi-Hazard	1	Flood, Severe Storm
Timeline	1	
Agency Champion	1	
Other Community Objectives	0	
Total	9	
Priority (H/M/L)	High	

Action Number:

WH-7 (2010 action; no number)

Mitigation Action Name:

The Building Inspector, the NFIP Floodplain Administrator, obtain his Certified Floodplain Managers certification.

Assessing the Risk	
Hazard(s) addressed:	Flood
Specific problem being mitigated:	Floodplain management staff and the building inspector are not Certified Floodplain Managers
Evaluation of Potential Actions/Projects	
Actions/Projects Considered (name of project and reason for not selecting):	Do nothing - 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	The Building Inspector, the NFIP Floodplain Administrator, obtain his Certified Floodplain Managers certification.
Mitigation Action Type	EAP
Goals Met	3, 5
Applies to existing and or new development, or not applicable	Both
Benefits (losses avoided)	High
Estimated Cost	Low
Priority*	Medium
Plan for Implementation	
Responsible Organization	Building Inspector
Local Planning Mechanism	Hazard Mitigation, Floodplain Management
Potential Funding Sources	Village Budget
Timeline for Completion	Short
Reporting on Progress	
Date of Status Report/ Report of Progress	Date: Progress on Action/Project:

Action Number:

WH-7 (2010 action; no number)

Mitigation Action Name:

The Building Inspector, the NFIP Floodplain Administrator, obtain his Certified Floodplain Managers certification.

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