

9.3 VILLAGE OF WASHINGTONVILLE

This section presents the jurisdictional annex for the Village of Washingtonville.

9.3.1 HAZARD MITIGATION PLAN POINT OF CONTACT

Hazard Mitigation Plan Points of Contact	
Primary Point of Contact	Alternate Point of Contact
Name: Dave Heintz, Mayor Address: 9 Fairlawn Drive Washingtonville, New York 10992 Phone Number: 845-496-3221 Fax Number: 845-496-1990 E-mail Address:	Name: James M. Farr P.E., Town Engineer Address: 111 Wheatfield Drive Suite 1 Milford, Pennsylvania 18337 Phone Number: 570-296-2765 Fax Number: 570-296-2767 E-mail Address: jmp@mhepc.com

9.3.2 PROFILE

Population

The population of the Village of Washingtonville is estimated to be 5,899, based on information gathered during the 2010 U.S. Census.

Location

The Village of Washingtonville is located in central Orange County, New York. The Village shares the majority of its border with the Town of Blooming Grove and a small portion with the Town of New Windsor.

Brief History

The Village was named in honor of President George Washington. First settled in 1731, the Village of Washingtonville contains America’s oldest winery. The Village has more commercial enterprises, housing a number of smaller malls. Washingtonville Central school district provides education for residents within the planning area and is located in the Village. The Village of Washingtonville has been successful in redevelopment in housing and increasing commercial business (Orange County Comprehensive Plan, 2010.)

Governing Body Format

The Village of Washingtonville governing body consists of a Village Mayor and board of trustees. The Village also has personnel of a clerk, treasurer, attorney, and engineer.

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Growth/Development Trends

The following table summarizes major residential/commercial development and major infrastructure development that are identified for the next five (5) years in the Village. Refer to the map in section 9.3.10) of this annex which illustrates the hazard areas along with the location of potential new development.

New Development/Potential Development in Municipality						
Property Name	Type (Residential or Commercial)	No. of Structures	Address	Parcel ID	Known Hazard Zone	Description /Status
Highview/Moffat Ridge	Residential	69	Moffat/Bull Rd Intersection	101-1-2.12 and 107-2-12	None	Conditionally Approved
Brotherhood Plaza	Commercial	Unknown	Brotherhood Drive	108-1-5.2	None	Concept
Brotherhood Winery	Commercial	Unknown	Brotherhood Drive	107-3-28.2	None	Concept
Spear Brothers Lumber Yard	Commercial	Unknown	Route 208	118-1-7	None	Concept
Casazza	Residential	Unknown	Route 208/ Woodcock Mt. Road	121-1-1.1	Flood Plane	Concept

9.3.3 NATURAL HAZARD EVENT HISTORY SINCE 2008

The Planning Area has a history of 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 planning area. The table below presents a summary of events that have occurred from 2008 to the present to indicate the range and impact of natural hazard events in the community. Information regarding specific damages is included if available based on reference material or local sources. For details of events prior to 2008, refer to Volume I, Section 5.0 of this plan.

Natural Hazard Event History				
Event Type	Date(s) of Event	FEMA Declaration	Orange County Designated?	Approximate Damage Assessment
Severe Storms and Flooding (Nor'Easter)	March 13-31, 2010	DR-1899	Yes	<p>A Nor'easter produced an extended period of heavy rainfall across the area on March 13, causing widespread flooding across portions of southeast New York. Moodna Creek and other small streams exceeded their banks in the Village of Washingtonville, and caused numerous houses to be inundated with water.</p> <p>1.63 inches of rain fell in the Village of Washingtonville.</p> <p>Heavy rain caused flooding. Widespread flooding in the Village damaged private properties, school facilities, police station, village offices, Fire department, and recreation facilities.</p>
TSTM/Wind	June 24, 2010	N/A	N/A	<p>Severe TSTMs brought strong winds and hail. Trees were reported down in the Village of Washingtonville.</p>
Flood	March 7, 2011	N/A	N/A	<p>Heavy rainfall resulted in moderate to major flooding across portions of Southeast New York. In the Village of Washingtonville, Moodna Creek overflowed its banks causing flooding of first floor residents and businesses on Route 208 as well as Route 94 near Washingtonville High School. Rainfall totals measures 0.5 inches in the Village of Washingtonville.</p>
Tornado	July 29, 2011	N/A	N/A	<p>In Lower Hudson Valley, there was at least one super cell, which produced a tornado in Orange County. The NWS confirmed an EF-1 tornado that ran from the Towns of Goshen to Blooming Grove, on Friday July 29th. The tornado touched down in the Town of Goshen, before finally lifting near Prospect Road in the Town of Blooming Grove. All along its path, trees converged into a well-defined narrow path. Total property damage from this event was approximately \$50,000.</p>
Hurricane Irene	August 26-September 5, 2011	DR-4020	Yes	<p>Heavy rain caused flooding which damaged Widespread flooding damaged private properties, school facilities, police station, village offices, Fire department, and recreation facilities.</p> <p>Moodna Creek overflowed its banks resulting in water rescues at Udderly Fresh Farms on Rt. 94 near Farmview Ln. in the Village of Washingtonville. In addition, the raging waters from the creek burst holes in the foundations of houses</p>

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Natural Hazard Event History				
Event Type	Date(s) of Event	FEMA Declaration	Orange County Designated?	Approximate Damage Assessment
				on Patricia and Beverly Lanes and inundated the Washingtonville Manor and Brookside Acres mobile home parks, south of Main St. The surge of water also engulfed the first floor of a residence on Cardinal Drive. Rt. 94 near Goshen Ave. in the Village of Washingtonville was also closed due to flooding.
Remnants of Tropical Storm Lee	September 7-11, 2011	DR-4031	Yes	No damages were reported/ available.
Hurricane Sandy	October 27 – November 8, 2012	DR-4085	Yes	High winds and snow downed trees and power lines causing widespread power outages. The water and wastewater plants were inaccessible due to road closures.

Note:

DR = Major Disaster Declaration
 EF = Enhanced Fujita Scale (tornado)
 EM = Emergency Declaration
 N/A = Not applicable
 TSTM = Thunderstorm

9.3.4 NATURAL HAZARD RISK/VULNERABILITY RISK RANKING

The table below summarizes the vulnerability risk rankings of potential hazards of the Village of Washingtonville.

Table 9.3-1 Natural Hazard Risk/Vulnerability Risk Ranking

Natural Hazard Risk/Vulnerability Risk Ranking				
Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a, c, d}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Flood	1% Annual Chance: \$80,269,000 0.2% Annual Chance: \$143,517,000	Frequent	27	High
Severe Storm	100-Year MRP: \$446,566 500-Year MRP: \$2,872,270 Annualized Loss: \$30,460	Frequent	18	Medium
Severe Winter Storm	1% of GBS: \$4,568,770 5% of GBS: \$22,843,850	Frequent	39	High
Earthquake	Not available	Rare	8	Low
Drought	Not available	Occasional	12	Medium
Extreme Temperature	Not available	Occasional	12	Medium
Wildfire	Not available	Occasional	16	Medium

Notes:

- a. Building damage ratio estimates based on FEMA 386-2 (August 2001)
- b. High = Total hazard priority risk ranking score of 22 and above
Medium = Total hazard priority risk ranking of 12-22
Low = Total hazard risk ranking below 12
- c. The valuation of general building stock and loss estimates was based on custom inventory for the Town of Blooming Grove Planning Area.
- d. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the value of contents.

9.3.5 CAPABILITY ASSESSMENT

This section describes the following capabilities of the local jurisdiction:

- Legal and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community resiliency
- Community political capability
- Community classification.

Officials from the Village of Washingtonville indicated that the municipality has limited fiscal capabilities, moderate planning and regulatory capabilities, and high administrative and technical capabilities, community political capability, and community resiliency capability; and a very willing political capability to enact policies or programs to reduce hazard vulnerabilities in the community.

Legal and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Village of Washingtonville.

Legal and Regulatory Capability			
Regulatory Tools (Codes, Ordinances, Plans)	Do you have this? (Y or N)	Enforcement Authority	Code Citation (Section, Paragraph, Page Number, Date of Adoption)
1) Building Code	Y		2010
2) Zoning Ordinance	Y		2/1/1998
3) Subdivision Ordinance	Y	Town Engineer: McGoey, Hauser& Edsall Engineering Jim Farr P.E.	2/1/1998
4) NFIP Flood Damage Prevention Ordinance	Y	Town Engineer: McGoey, Hauser& Edsall Engineering Jim Farr P.E.	2/1/1998
4a) Cumulative Substantial Damages			
4b) Freeboard			
5) Growth Management			
6) Floodplain Management / Basin Plan	Y		
7) Stormwater Management Plan/Ordinance	Y	Town Engineer: McGoey, Hauser& Edsall Engineering Jim Farr P.E.	
8) Comprehensive Plan / Master Plan/ General Plan	Y		
9) Capital Improvements Plan			Under Development
10) Site Plan Review Requirements	Y	Town Engineer: McGoey, Hauser& Edsall Engineering Jim Farr P.E.	
11) Open Space Plan	Y		
12) Stream Corridor Management Plan			Under Development
13) Watershed Management or Protection Plan			Under Development
14) Economic Development Plan			Under Development
15) Comprehensive Emergency Management Plan	Y	Doug Mitchell, Emergency Management	
16) Emergency Response Plan	Y	Doug Mitchell, Emergency Management	
17) Post-Disaster Recovery Plan		Doug Mitchell, Emergency Management	Under Development

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Legal and Regulatory Capability			
Regulatory Tools (Codes, Ordinances, Plans)	Do you have this? (Y or N)	Enforcement Authority	Code Citation (Section, Paragraph, Page Number, Date of Adoption)
18) Post-Disaster Recovery Ordinance	Y	Doug Mitchell, Emergency Management	Under Development
19) Real Estate Disclosure Requirement	Y	Doug Mitchell, Emergency Management	Under Development
20) Other (Special Purpose Ordinances such as critical or sensitive areas)		Doug Mitchell, Emergency Management	

Administrative and Technical Capability

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

Administrative and Technical Capability		
Staff / Personnel Resources	Available ?	Department / Agency / Position
1) Planner(s) or Engineer(s) with knowledge of land development and land management practices	Y	Town Engineer: McGoey, Hauser& Edsall Engineering; Jim Farr P.E.
2) Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	Town Engineer: McGoey, Hauser& Edsall Engineering; Jim Farr P.E.
3) Planners or engineers with an understanding of natural hazards	Y	Town Engineer: McGoey, Hauser& Edsall Engineering; Jim Farr P.E.
4) NFIP Floodplain Administrator	Y	Town Engineer: McGoey, Hauser& Edsall Engineering; Jim Farr P.E.
5) Surveyor(s)	N	
6) Personnel skilled or trained in GIS applications	N	
7) Scientist familiar with natural hazards	N	
8) Emergency Manager	Y	Doug Mitchell, Emergency Management
9) Grant Writer(s)	N	
10) Staff with expertise or training in benefit/cost analysis	Y	Town Engineer: McGoey, Hauser& Edsall Engineering; Jim Farr P.E.

Fiscal Capability

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

Fiscal Capability	
Financial Resources	Accessible or Eligible to use (Yes/No/Don't know)
1) Community Development Block Grants (CDBG)	N
2) Capital Improvements Project Funding	Y, Town Board
3) Authority to levy taxes for specific purposes	Y, Town Board
4) User fees for water, sewer, gas or electric service	Y, Town Board
5) Impact fees for homebuyers or developers of new development/homes	N
6) Incur debt through general obligation bonds	Y, Town Board
7) Incur debt through special tax bonds	Y, Town Board
8) Incur debt through private activity bonds	N
9) Withhold public expenditures in hazard-prone areas	N
10) State mitigation grant programs	Y, Town Board
11) Other	N

Community Classifications

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

Community Classifications		
Program	Classification	Date Classified
Community Rating System (CRS)	NP	
Building Code Effectiveness Grading Schedule (BCEGS)	-	
Public Protection	-	
Storm Ready	NP	
Firewise	NP	

Notes:
 - = Unavailable
 N/A = Not applicable
 NP = Not participating.

The classifications listed above relate to the Village of Washingtonville’s ability to provide effective services to lessen its vulnerability to the natural 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 1,000 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 <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at <http://firewise.org/>

9.3.6 MITIGATION STRATEGY

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

Past Mitigation Actions/Status

Officials from the Village of Washingtonville submitted and were awarded an HMGP grant from FEMA in December, 2012, on behalf of 18 homeowners to have their homes acquired and demolished. All homes are located in a special flood hazard area and have been certified substantially damaged as a result of Hurricane Irene and/or Tropical Storm Lee.

Other mitigation actions which have been, or will be incorporated into the Village’s planning and land use mechanisms are noted in Section 9.3.10.

Hazard Vulnerabilities Identified

The Village has identified the Downtown area, consisting of residential and commercial properties, as a flood hazard area. The area has flooded with up to 8 feet of water between the municipal boundaries at both ends of New York State Route 94. Flood damage resulted in the demolition of Village Hall and damages or losses to approximately 80 homes. The flooding also incapacitates the Village’s emergency services, government, and public works.

It is estimated that in the Village of Washingtonville, 204 residents live within the 1% annual chance flood area (NFIP Special Flood Hazard Area). Please note the methodology used underestimates the population at risk to flooding by as much as half because it does not take into consideration physical access into the area where the property is located such as the ability to travel into the area either on foot or by vehicle. In addition, when there are multiple structures on a parcel they will not be included in this estimate (such as multiple mobile homes on a parcel). Refer to the Flood Profile for further details.

Of the total parcels within the municipality, an estimated 131 (8.2%) are located within the 1% annual chance flood area. An estimated \$49,511,000 (6.6%) of the municipality's general building stock replacement cost value (structure and contents) is located within the 1% annual chance flood area.

There are 110 NFIP policies in the community and there are 62 policies located within the 1% annual chance flood area. FEMA has identified 27 Repetitive Loss (RL) properties including 5 Severe Repetitive Loss (SRL) properties in the municipality.

HAZUS-MH estimates that for a 1% annual chance flood, \$44,361,000 (5.9%) of the municipality's general building stock replacement cost value (structure and contents) will be damaged, 530 households may be displaced, 370 people may seek short-term sheltering, and an estimated 6,040 tons of debris could be generated.

Further information regarding the summary of the community’s participation in the NFIP is provided in the table below.

Table 9.3-2 NFIP Summary

NFIP Summary								
Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 1% Boundary (3)	# Policies in 0.2% - Boundary (3)	# Policies Outside the 0.2% Flood Hazard (3)
Village of Washingtonville	110	215	\$4,429,249	27	5	62	87	23

Source: FEMA Region 2, 2013

Notes:

- (1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA Region 2, and are current as of January 31, 2013. The community name was used to summarize these statistics. Please note the total number of repetitive loss properties excludes the severe repetitive loss properties. The number of claims represents the number of claims closed by January 31, 2013 along with their total payments (structure and contents).
- (2) Total building and content losses from the claims file provided by FEMA Region 2. Only claims closed with payment are listed. One claim of \$18,390 in the Village of Washingtonville was open as of the January 31, 2013 and is not included in the table above. There were 62 claims closed without payment.

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(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. 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.

(4) The number of policies for the Village of Washingtonville as provided by FEMA in January 31, 2013 is 110, whereas the updated statistics in May 2013 indicates a slight increase to 113. The Orange County Hazard Mitigation Plan notes a total of 77 policies in force for the Village of Washingtonville as of September 2010.



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Table 9.3-3 Critical Facilities Located in the 1-Percent and 0.2-Percent Annual Chance Flood Boundaries and Estimated Potential Damage

Critical Facility Damage Estimate										
Name	Municipality	Type	Exposure		Potential Loss from 1% Flood Event			Potential Loss from 0.2% Flood Event		
			1% Event	0.2% Event	Percent Structure Damage	Percent Content Damage	Days to 100-Percent ⁽¹⁾	Percent Structure Damage	Percent Content Damage	Days to 100-Percent ⁽¹⁾
DPW Washingtonville Garage	Washingtonville (V)	DPW		X				62	-	-
DPW Washingtonville Sewer	Washingtonville (V)	DPW		X				58	-	-
Washingtonville Village Hall	Washingtonville (V)	Municipal		X				5	-	-
Washingtonville Middle School	Washingtonville (V)	School		X				9	65	630
Washingtonville Fire Department	Washingtonville (V)	Fire		X				15	72	630
Frontier Communication	Washingtonville (V)	Communication		X					-	-
Washingtonville STP	Washingtonville (V)	WW	X	X	-	-	-	40	-	-
Washingtonville Water Plant	Washingtonville (V)	Potable		X				-	-	-

Source: HAZUS-MH 2.1

Note: NA = Not available; T = Town; V = Village

- = Not calculated by HAZUS-MH 2.1

X = Facility located within the DFIRM boundary.

(1) HAZUS-MH 2.1 provides a general indication of the maximum restoration time for 100% operations. Clearly, a great deal of effort is needed to quickly restore essential facilities to full functionality; therefore this will be an indication of the maximum downtime (HAZUS-MH 2.1 User Manual).

(2) In some cases, a facility may be located in the DFIRM flood hazard boundary; however HAZUS did not calculate potential loss. This may be because the depth of flooding does not amount to any damages to the structure according to the depth damage function used in HAZUS for that facility type.

Please refer to the Hazard Profiles in Section 5 of this plan for additional vulnerability information relevant to this jurisdiction.



9.3.7 PROPOSED HAZARD MITIGATION INITIATIVES

Some of the identified mitigation initiatives in the table below 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.

Table 9.3-4 Proposed Hazard Mitigation Initiatives

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
Mitigation Type: Prevention											
WV-1	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0	New and Existing	All Hazards	1-3 1-6 1-7	Municipality with support from Planning Partners, County Planning, NYSOEM, FEMA	High	Low – High (for 5 year update)	Municipal Budget, FEMA planning grants	On-going	H	PR
WV-2	Pursue a hydraulic analysis of the Moodna Creek as it has numerous bridges and structures that represent present and potential constrictions due to the design and location of structures. The results of this analysis will be used as a resource in the planning and development of further actions to reduce flood impacts.	Both	Flood	2-2 2-4 2-5	Village with support from Town of BG, DPW	Medium	High	Operating Budget	Short	H	PR
WV-3	Maintain compliance with and good-standing in the NFIP including adoption and enforcement of floodplain management requirements (e.g. regulating all new and substantially improved construction in Special Hazard Flood Areas), floodplain identification and mapping, and flood insurance outreach to the community. Further, continue to meet	N/A	Flood, Severe Storm	1-4 1-8 2-3 4-4	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from NYSOEM, FEMA	Medium	Low-Medium	Municipal Budget	Ongoing	M	PR, PE



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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
	and/or exceed the minimum NFIP standards and criteria through the following NFIP-related continued compliance actions identified as Initiatives WV-7 and WV-13 below.										
WV-4	Implement, review, and enforce municipal policies and programs to prevent trees from threatening lives and impacting power availability/interruption.	N/A	Severe Storm	3-1 4-4 5-1	Municipal Code Enforcement	Medium	Low	Municipal Budget	Short	M	PR
WV-5	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations	N/A	All Hazards	3-6 5-1 5-2	Municipality with support from County, NYSOEM, FEMA and surrounding communities	Medium	Low	Municipal Budget	Short Term	M	PR, ES
WV-6	Implement permit fee waivers for installation of backup power for private property.	N/A	Severe Storm	1-6 2-4	Municipal Council	Medium	Low	Municipal Budget	Short	M	PR
WV-7	Obtain and archive elevation certificates	N/A	Flood, Severe Storm	1-4 1-6	NFIP Floodplain Administrator	Medium	Low	Municipal Budget	On-going	M	PR
WV-8	Support ongoing updates of Comprehensive Emergency Management Plans	New and Existing	All Hazards	1-6	Municipality with support from County Emergency Management	Low	Low	Municipal Budget	On-going	M	PR
WV-9	Participate in local, county and/or state level projects and programs to develop improved structure and facility inventories and hazard datasets to support enhanced risk assessment and hazard mitigation. Projects include, but will not be limited to: - Install automatic level	N/A	All Hazards	1-3 1-4 1-5 2-8 3-4 5-2	Hazard Mitigation Plan Coordinator	Medium-High	Medium-High	FEMA Mitigation Grant Programs with local match	Long Term DOF	M	PR



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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
	sensing devices on streams and lakes to provide for early warning of potential flooding - Develop a detailed inventory of critical facilities based upon FEMA's Comprehensive Data Management System (CDMS) which could be used for various planning and emergency management purposes.										
WV-10	Incorporate ordinances and/or zoning restrictions to control and mitigate future development in hazard areas, specifically as identified in Section 9.3.10.	N/A	All Hazards	1-6 1-7 1-8 4-1 4-4	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short	M	PR
WV-11	Develop programs/procedures to capture and archive loss data from events. Examples include: Record location and length of roadway closures; Develop a database of residential and commercial property damage, including permit history for such repairs; High water marks, perhaps painting phone poles with high water marks and or regulatory Base Flood Elevations (BFEs).	N/A	All Hazards	1-3 1-4 1-5 2-8	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short	M	PR
WV-12	Research, purchase, install, and maintain a system of staff gauges and automatic level	N/A	All Hazards	1-4 2-8	Village Engineer, Watershed Planning Groups, County OEM,	Medium	Medium	FEMA Mitigation Grant Programs with	Short Term DOF	M	PR



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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
	sensing devices to be placed in appropriate areas (Main Street pedestrian bridge and South St. Bridge) to determine flood height of the Moodna Creek. The gauges should be readable from a certain distance away, and should enable volunteer spotters and the public to monitor stream height.				NYSDEC			local match			
WV-13	Promote the participation of Floodplain Administrators within the planning process and other activities.	N/A	Flood	1-6 1-7 1-8	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short	M	PR
WV-14	Work with regional agencies (i.e. County and NYSOEM) to help develop damage assessment capabilities at the local level through such things as training programs, certification of qualified individuals (e.g. code officials, floodplain managers, engineers). This action includes training of Emergency Personnel in ICS systems, as called for in the Town of Blooming Grove and Village of Washingtonville Emergency Response Plan.	N/A	All Hazards	3-3 3-8	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget, FEMA HMA and HLS grant programs	Short-Long Term	M	PR
WV-15	Adopt regulations for underground utilities in new developments, and install electric lines underground where possible throughout the	N/A	Severe Storm	1-1 1-3 1-8 3-1	Municipal Council	Medium	Medium - High	Municipal Budget	Long Term DOF	L	PR



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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
	Village.										
WV-16	Identify and develop agreements with entities that can provide support with FEMA/NYSOEM paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/NYSOEM paperwork compilation, submissions, record-keeping	N/A	All Hazards	2-7	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short Term	L	PR, ES
Mitigation Type: Property Protection											
WV-17	Relocate emergency and governmental services outside of floodplain. Plans to construct a new Village Hall are currently being considered by Village officials.	Existing	Flood	1-2 3-5	Municipality, and support from NYSOEM, FEMA	High	High	FEMA Mitigation Grants	OG	H	PP
WV-18	Assist in the purchase, relocation, or elevation of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss property as priority, including acquisition of private residences. Phase 1: Identify appropriate candidates based on cost-effectiveness. Phase 2: Where determined to be a viable option, work with property owners toward implementation of the	Existing	Flood, Severe Storm	1-1 1-2	Village in cooperation with the Town of Blooming Grove; support from County Planning, NYSOEM, FEMA	High	High	FEMA Mitigation Grants	Long Term DOF	H	PP



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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
	determined action based on available funding from FEMA and local match availability. Projects for immediate action include the 18 private residences for which the Village was awarded an HMGP grant, the private residence in the Tappan Subdivision, supporting acquisition of severe repetitive loss properties on E. Main Street and Cardinal Drive, and the relocation of emergency and governmental services outside of floodplain.										
WV-19	Acquire and demolish 18 homes located in the SFHA. Homes are located on West Main St., Patricia Lane, Cardinal Drive, Beverly Lane, and East Main street. All 18 properties are in the process of being bought out. Some do not have final appraisals and they are being negotiated.	Existing	Flood, Severe Storm	1-1 1-2	Village in cooperation with the Town of Blooming Grove; support from NYSOEM, FEMA	High	High	FEMA Mitigation Grants	Short	H	PP
Mitigation Type: Public Education and Awareness											
WV-20	Conduct and facilitate community and public education and outreach for residents and businesses to include, but not be limited to, the following to promote and effect natural hazard risk reduction: - Conduct educational outreach to owners of	N/A	All Hazards	2-2 2-3 2-4 2-5	Municipality with support from Planning Partners, County Planning, NYSOEM, FEMA	Medium	Medium	Municipal Budget, HMA programs with local or county match	Short Term	M	PE



SECTION 9.3: VILLAGE OF WASHINGTONVILLE

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
	<p>important water resources facilities</p> <ul style="list-style-type: none"> - Educate property owners in stream maintenance. - Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages. - Prepare and distribute informational letters to flood vulnerable property owners and neighborhood associations, explaining the availability of mitigation grant funding to mitigate their properties, and instructing them on how they can learn more and implement mitigation. - Use email notification systems and newsletters to better educate the public on flood insurance, the availability of mitigation grant funding, and personal natural hazard risk reduction measures. - Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and the availability of mitigation grant funding. 										
WV-21	Provide public education and outreach on proper installation and/or use of backup power	N/A	Severe Storm	2-2 2-4 2-5 3-3	Municipal Clerk	Medium	Low	Municipal Budget	Short	M	PE
WV-22	Enhance the County/community	N/A	Severe Storm	2-1 2-2	Municipality with support from	Medium	Low	Municipal Budget	Short Term,	M	PE



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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
	resilience to severe storms (incl. severe winter storms) by joining the NOAA "Storm Ready" program and supporting communities in joining the program.				County, NYSOEM and FEMA				DOF		
WV-23	Work with DPW to compile and/or update the existing list of MS4 ID illicit stormwater discharges within the Town of BG and Village of Washingtonville. Both the Town and Village of Washingtonville are MS4 stormwater communities. This would involve identifying point source discharges to the Moodna or feeder streams, NOT including sheet flow, or non-point source pollution. While non-point source pollution is now the chief source of stream pollution, the importance of the point source for flooding is flow rate, which is higher than non-point source flow since infiltration is far lower and friction far less. Work with DPW to document where there are discharges, how often, and what is their effect.	N/A	Flood	2-2 2-4 2-5	Village with support from Town of BG, DPW	Medium	Low	Municipal Budget, Volunteer	Short	M	PE
Mitigation Type: Natural Resources Protection											
WV-24	Facilitate drainage improvements throughout the Village. Phase 1 will include a study and concept design.	N/A	Flood	1-1 3-5 4-2	Village in cooperation with the Town of Blooming Grove; support from	High	Medium	Municipal Budget, HMA programs with local or county match	Long Term DOF	H	NR



SECTION 9.3: VILLAGE OF WASHINGTONVILLE

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
					County Planning, NYSOEM, FEMA						
WV-25	Explore the possibility of stormwater storage along Moodna Creek - The Village will participate in an oversight committee to address Stormwater storage in the Moodna Creek. At present there are ongoing discussions with the science and data subcommittee with the Moodna Creek Watershed Inter-municipal council regarding potential locations for storage. Consider excavation of former Washingtonville Village Hall as potential flood water storage location.	N/A	Flood	1-1 4-2	Village in cooperation with the Town of Blooming Grove; support from County Planning, USACE, NYSDEC, FEMA	High	Medium	Municipal Budget, HMA programs with local or county match	Long Term DOF	H	NR
WV-26	Elimination/modification of existing dams, including: - Dams at Tomahawk Lake and Salisbury Mills, in accordance with the Moodna Creek Watershed Plan. - Small dam in Washingtonville approximately where the Moodna Creek runs behind the Hook & Ladder. Mays Field, municipal is located on the other side of the dam where stream bank erosion occurs. The dam cannot be seen at normal flow, but during dry weather it can be observed. Phase 1 of this initiative	Both	Flood	1-1 4-2	Village in cooperation with the Town of Blooming Grove and the Village of South Blooming Grove; support from County Planning, NYSDEC, NYSOEM, FEMA	High	High	Municipal Budget, HMA programs with local or county match	Long Term DOF	M	NR



SECTION 9.3: VILLAGE OF WASHINGTONVILLE

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
	would involve an in depth study of the costs, benefits, and impacts of dam removal.										
WV-27	Flood proofing of water/wastewater facility: The village wastewater facility is currently in construction with H2M, but not designed to be floodproof.	Both	Flood	1-1 3-5	Municipality; support from County Planning, NYSOEM, FEMA	Medium	Medium	Municipal Budget, HMA programs with local or county match	Short	M	NR
WV-28	Consider debris removal from Moodna Creek, including identifying the location of, and potential removal of, Beaver Dams in the Creek.	N/A	Flooding	1-1 4-2	Village with the Town of Blooming Grove (via Municipal Engineer/NFIP Floodplain Administrator)	Medium	Medium	Municipal Budget	Short DOF	M	NR
WV-29	Continue to explore dredging opportunities. Reports have been prepared for potential dredging operations, though projects have been held up in permitting and have not moved forward.	Both	Flood	1-1 4-2	Municipality with support from County Planning, NYSOEM	Low	Medium	Municipal Budget, HMA programs with local or county match	Long Term DOF	L	NR
Mitigation Type: Structural Projects											
WV-30	Modification of Salisbury Mill hydroelectric dam to control Creek water level.	Existing	Flood	1-1 1-3	Municipality with support from County Planning, NYSDEC, NYSOEM	Medium	Medium	Municipal Budget	Short Term DOF	M	SP
Mitigation Type: Emergency Services											
WV-31	Improve communication systems, including the development of a town wide emergency notification system. This action should follow the finalization of the Town of Blooming Grove's	N/A	All Hazards	2-2 2-6	Village and Town budget; support from County, NYSOEM and FEMA	High	Medium	Municipal Budget	Short	H	ES



SECTION 9.3: VILLAGE OF WASHINGTONVILLE

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
	Emergency Alert System Plan, currently under development.										
WV-32	Obtain and install backup power sources at critical facilities, including a portable generator for the Village Police Station to provide service throughout the village.	Existing	All	1-1 3-3 3-5	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short Term DOF	H	ES

Notes:

*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:

ARC	American Red Cross
BGPD	Blooming Grove Planning Department
DPW	Department of Public Works
FEMA	Federal Emergency Management Agency
HMA	Hazard Mitigation Assistance
HMP	Hazard Mitigation Proposal
N/A	Not applicable
NFIP	National Flood Insurance Program
NYSOEM	New York State Office of Emergency Management
NOAA	National Oceanic and Atmospheric Administration
USACE	U.S Army Corp of Engineers
USGS	U.S. Geological Survey

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.

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

SRL = Severe Repetitive Loss Grant Program

Timeline:

Short = 1 to 5 years

Long Term = 5 years or greater

OG = On-going program

DOF = Depending on funding

Notes (for Mitigation Type):

1. PR = Prevention: 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.
2. PP = Property Protection: 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. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
3. PE = Public Education and Awareness: 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.
4. NR = Natural Resource Protection: 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.
5. SP = Structural Projects: 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.
6. ES = Emergency Services: 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.

9.3.8 PRIORITIZATION OF MITIGATION INITIATIVES

The table below summarizes the priority levels for each mitigation initiative, listed by number.

Table 9.3-5 Prioritization of Mitigation Initiatives

Prioritization of Mitigation Initiatives							
Initiative #	# of Objectives Met	Benefits	Costs	Do benefits equal or exceed costs? (Yes or No)	Is project Grant eligible? (Yes or No)	Can project be funded under existing programs/budgets? (Yes or No)	Priority (High, Med., Low)
Mitigation Type: Prevention							
WV-1	3	H	L	Y	N	Y	High
WV-2	3	M	H	Y	N	Y	High
WV-3	4	M	L	Y	N	Y	Medium
WV-4	3	M	L	Y	N	Y	Medium
WV-5	3	M	L	Y	N	Y	Medium
WV-6	2	M	L	Y	N	N	Medium
WV-7	2	M	L	Y	N	Y	Medium
WV-8	1	L	L	Y	N	Y	Medium
WV-9	6	M	M	Y	N	Y	Medium
WV-10	5	M	M	Y	N	Y	Medium
WV-11	4	M	M	Y	Y	Y	Medium
WV-12	2	M	M	Y		-	Medium
WV-13	3	M	M	Y	N	Y	Medium
WV-14	2	M	M	Y	Y	Y	Medium
WV-15	4	M	M	Y	N	N	Low
WV-16	1	M	M	Y	N	Y	Low
Mitigation Type: Property Protection							
WV-17	1	H	H	Y	Y	-	High
WV-18	2	H	H	Y	Y	-	High
WV-19	2	H	H	Y	Y	Y	High
Mitigation Type: Public Education and Awareness							
WV-20	4	M	M	Y	Y	Y	Medium
WV-21	4	M	L	Y	Y	Y	Medium
WV-22	2	M	L	Y	N	Y	Medium
WV-23	3	M	L	Y		Y	Medium
Mitigation Type: Natural Resources Protection							
WV-24	3	H	M	Y	N	-	High
WV-25	2	H	M	Y	Y	-	High
WV-26	2	H	H	Y	Y	-	Medium
WV-27	2	M	M	Y	N	-	Medium
WV-28	2	M	M	Y	N	-	Medium
WV-29	2	L	M	N	Y	-	Low
Mitigation Type: Structural Projects							



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Prioritization of Mitigation Initiatives							
Initiative #	# of Objectives Met	Benefits	Costs	Do benefits equal or exceed costs? (Yes or No)	Is project Grant eligible? (Yes or No)	Can project be funded under existing programs/budgets? (Yes or No)	Priority (High, Med., Low)
WV-30	2	M	M	Y	N	-	Medium
Mitigation Type: Emergency Services							
WV-31	2	H	M	Y	Y	Y	High
WV-32	3	M	M	Y	Y	-	High

Notes:
H = High
L = Low
M = Medium
N/A = Not applicable
N = No
Y = Yes
- = Unavailable



Explanation of Priorities

Explanations of priority classifications used to assess the mitigation initiatives described in this annex are presented below:

High Priority = A project that meets multiple objectives (i.e., multiple hazards), where potential benefits exceed the costs. High-priority projects have funding secured or are an on-going projects that meet eligibility requirements for the Hazard Mitigation Grant Program (HMGP) or Pre-Disaster Mitigation (PDM) Grant Program. High-priority projects can be completed in the short term (1 to 5 years).

Medium Priority = A project that meets goals and objectives, where the potential benefits outweigh the costs. Funding for medium-priority projects has not been secured but these projects are eligible for grants under HMGP, PDM, or other grant programs. These projects can be completed in the short term, once funding is completed. Medium-priority projects will become high-priority projects once funding is secured.

Low Priority = A project that will mitigate the risk of a hazard, where the potential benefits do not exceed the costs or have benefits that are difficult to quantify. Funding for low-priority projects has not been secured and these projects are not eligible for HMGP or PDM grant funding. The timeline for completion is considered long term (1 to 10 years). Low-priority projects may be eligible other sources of grant funding from other programs. A low-priority project could become a high-priority project once funding is secured as long as it could be completed in the short term.

Was prioritization of initiatives based on the above definitions? Yes

Was prioritization of initiatives based on parameters other than those stated above? Not applicable

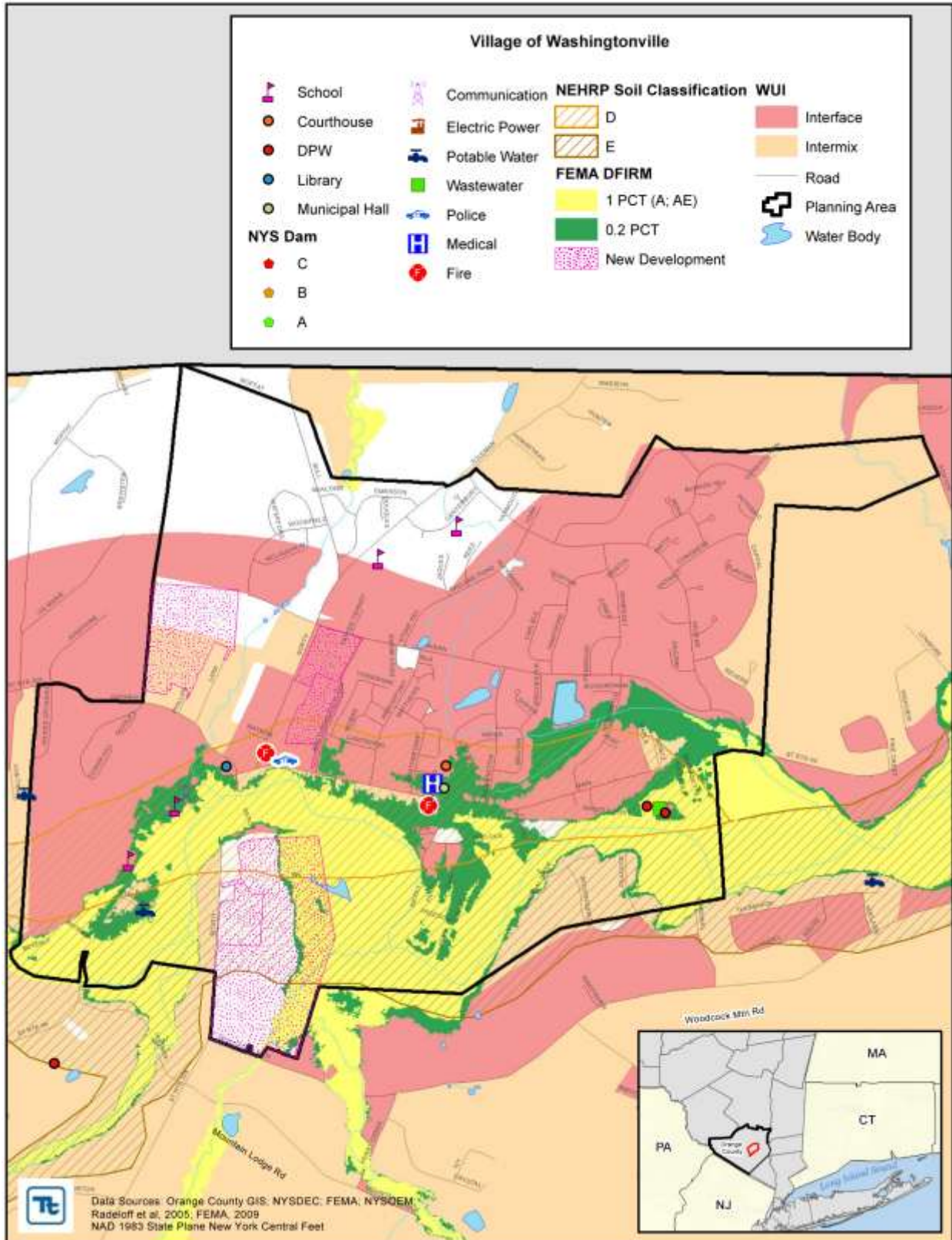
9.3.9 FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY

The Village of Washingtonville has no additional risk vulnerabilities that need to be addressed at this time.

9.3.10 HAZARD AREA EXTENT AND LOCATION

A hazard area extent and location map illustrating the probable areas impacted within the Village of Washingtonville is provided on the following page. This map is based on the best data available at the time of the preparation of this plan, and is 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 Washingtonville has significant exposure. The planning area maps are provided in the hazard profiles within Section 5.4, Volume I of this plan.

SECTION 9.3: VILLAGE OF WASHINGTONVILLE



9.3.11 STATUS OF INCORPORATION OF MITIGATION PLANNING INTO EXISTING AND FUTURE PLANNING MECHANISMS

It is the intention of the Village of Washingtonville to incorporate mitigation planning as an integral component of daily municipal operations. The following table contains a list of planning mechanisms that have been or will be incorporated into municipal procedures.

Specifically the Village intends to incorporate the hazard mitigation plan by reference into the Village’s zoning and subdivision codes. The Village’s Planning and Zoning Board considers potential hazards during the review of projects especially in regard to stormwater control. The Village is a regulated MS 4 stormwater municipality.

Status of Incorporation of Mitigation Planning into Existing and Future Planning Mechanisms		
Planning Mechanisms	Has Been Utilized	Will Be Utilized
Operating Budget When constructing upcoming budgets, hazard mitigation actions will be funded as budget allows. Construction projects will be evaluated to see if they meet the hazard mitigation goals and objectives.		X
Capital Improvement Budget When constructing upcoming budgets, hazard mitigation actions will be funded as budget allows. Construction projects will be evaluated to see if they meet the hazard mitigation goals and objectives.		X
Human Resource Manual Employee job descriptions may contain hazard mitigation actions.		X
Building and Zoning Ordinances A variety of building and zoning regulations are used to restrict the uses of land and establish building specifications. Prior to land use, zoning changes, or development permitting, the municipality will review the hazard mitigation plan and other hazard analyses to ensure consistent and compatible land use.	X	
Comprehensive Land Use Plan A land use plan is intended to identify land use issues and to make recommendations on how to address these issues. When applicable, the municipality will incorporate hazard mitigation actions in the development and extent of the regulations.		X
Grant Applications Data and maps will be used as supporting documentation in grant applications.		X
Municipal Ordinances When updating municipal ordinances, hazard mitigation will be a priority.		X
Fire Plan The Hazard Mitigation Plan will be used as a resource for the development of future Fire Plans.		X
Capital Improvement Planning The municipality will establish a protocol to review current and future projects for hazard vulnerability. The municipality will incorporate hazard-resistant construction standards into the design and location of projects.		X
Day-to-Day Operations The municipality will incorporate hazard mitigation actions in daily operations and all projects.		X
Local School Service Projects The municipality will work closely with the local school district and assist with community service projects for the service organizations. Several of the municipality’s hazard mitigation actions can be implemented as a joint project with the school district.		X
Municipal Budget Adopted annually, the municipality will look at mitigation actions when allocating funding.		X

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Status of Incorporation of Mitigation Planning into Existing and Future Planning Mechanisms		
Planning Mechanisms	Has Been Utilized	Will Be Utilized
Economic Development The local economic development group will take into account information regarding identified hazard areas when assisting new businesses in finding a location.		X

9.3.12 NFIP ADMINISTRATOR INPUT

Insurance Summary

- As of April 30, 2013, there are 110 policies in force, with a total coverage of \$ 23,479,000. The written premium per policy is \$ 141,261/yr.
- As of April 30, 2013, 239 claims have been made, 215 claims have been closed, with a total payout of \$ 4,477,637.97.
- There are 27 Repetitive Loss Properties and 5 Severe Repetitive Loss Properties within the Village (RL's exclude SRL properties).

Staff Resources

- Jim Farr P.E.

Regulation

- The Village entered NFIP on April 1, 1981. The initial FIRM was identified on April 1, 1981, and the date of the current effective map date is August 3, 2009.

Compliance History

- The community in good standing with the NFIP, and has no outstanding compliance issues.

Community Rating System

- The Village of Washingtonville does not participate in CRS.

9.3.13 ADDITIONAL COMMENTS

There are no additional comments at this time.