

10.2.38 Village of Washingtonville

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

10.2.38.1 Contacts

Primary and secondary contacts regarding this plan are identified as follows:

- Joseph Bucco – Mayor
9 Fairlawn Drive
Washingtonville, NY 10992
(845) 496-3221
- Christine Shenkman
9 Fairlawn Drive
Washingtonville, NY 10992
(845) 496-3221

10.2.38.2 Municipal Profile

Population

According to the U.S. Census, the 2010 population for the Village of Washingtonville was five thousand, eight hundred ninety-nine (5,899), with a population density of two thousand, three hundred and twenty-four (2,324) persons per square mile. The population has increased by a 0.1% from the 2000 census five thousand, eight hundred fifty-one (5,851).

Location

The Village of Washingtonville is located in the central portion of Orange County and within the northern region of the Town of Blooming Grove. The Village encompasses an area of 2.5 square miles and is located at the junction of State Routes 94 and 208.

Brief History

Washingtonville was first settled in 1731 and originally called Matthews Field. In 1818, the Village was named in honor of President George Washington. The development of the New York, Lake Erie and Western Railway prompted growth within the Village during the mid - 1800s. In 1895 the Village of Washingtonville was incorporated (Village of Washingtonville website, 2016). The Village also contains America's oldest winery, the Brotherhood Winery.

Governing Body

The Village of Washingtonville governing body consists of a Village Mayor and a four (4) member Board of Trustees.

Future Growth

Several future development opportunities have been identified. These future development trends are shown in below.

Table 10.2.38a: Potential Future Development in the Village of Washingtonville (DMA 2000 Multi-Jurisdiction Hazard Mitigation Plan Town of Blooming Grove, 2013)			
Address	Project	Type	Number of Potential Structures
Moffat/Bull Road intersection	Highview/Moffat Ridge	Residential	69
Brotherhood Drive	Brotherhood Pizza	Commercial	Unknown
Brotherhood Drive	Brotherhood Winery	Commercial	Unknown
Route 208	Spear Brothers Lumber Yard	Commercial	Unknown
Route 208/ Woodcock Road Mt. Road	Casazza	Residential	Unknown

A review of the planning board agenda from the Village of Washingtonville’s municipal website indicated there have been several planning board meetings held in respect to future development. These projects include: a site plan review for two-family home on Route 94 and development of Rieger Homes at High Grove.

Mitigation concerns have been addressed through site plan review and compliance with the Village’s Comprehensive Plan, local hazard mitigation plans, and local laws, policies, and procedures. Redevelopment in hazard-prone areas will transition from industrial to residential/commercial uses over time and will also continue to follow local rules and regulations, NYS building code, DEC stormwater management, and DEC wetland protection regulations and permitting as well as NYSDOT permitting.

10.2.38.3 Hazard Vulnerabilities and Ranking

Section 5 of this Plan update provides a summary of natural hazards which were selected during the Orange County HMP planning committee. The Village of Washingtonville did not identify any technological hazards during the hazard mitigation planning process. The Village of Washingtonville identified seven (7) natural hazards:

- Drought
- Floods
- Severe Winter Storm
- Wildfire
- Earthquake
- Extreme Temperatures
- Severe Thunderstorm

Risk Ranking

Below are summarized the vulnerability risk rankings of potential natural hazards which were identified in the DMA 2000 Hazard Mitigation Plan for the Town of Blooming Grove Planning Area (including Washingtonville).

Table 10.2.38b: Natural Hazard Risk/Vulnerability Risk Ranking				
Hazard Type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard	Probability of Occurrence	Risk Ranking Score (Probability of Impact)	Hazard Ranking
Flood	1% Annual Chance: \$ 80,269,000 0.2% Annual Chance: \$143,517,000	Frequent	27	Medium
Severe Storm	100-Year MRP: \$ 446,566 500-Year MRP: \$ 2,872,270 Annualized Loss: \$ 30,460	Frequent	18	Medium
Severe Winter Storm		Frequent	39	High
Earthquake	1% of GBS: \$ 4,568,770	Rare	6	Low
Drought		Occasional	12	Medium
Extreme Temperature	5% of GBS: \$ 22,843,850	Occasional	12	Medium
Wildfire		Occasional	16	Medium

Critical Facilities

The Village of Washingtonville completed a review of critical facilities within the 100-year and 500-year floodplains for the 2013 hazard mitigation planning efforts. A result of this analysis is indicated below.

The Village of Washintonville has eleven (11) critical facilities within the 500-year floodplain or the high hazard Landslide Rating¹ area. Four (4) of these facilities are located in both. Below is a table that identifies the structures and hazard issues.

Moodna Creek flooding is the primary vulnerability for each of these critical facilities. As such, this shared vulnerability is mitigated by proposed actions VW-2, VW-4, VW-17, and VW-18 which help to mitigate occurrences of flooding on the Moodna Creek and the potential damage it may cause.

Table 10.2.38d: Village of Washingtonville Critical Facilities and Infrastructure in Hazard Areas			
Critical Infrastructure	500-Yr Floodplain	Landslide Rating Area	Associated Mitigation Action
Frontier Communications	Y	N	VW-2, VW-4, VW-18
Little Harvard Child Care	Y	N	VW-2, VW-4, VW-18
Vern Allen Park	Y	Y	VW-2, VW-4, VW-18
Washingtonville Department of Public Works Garage	Y	Y	VW-2, VW-4, VW-17
Washingtonville Department of Public Works Sewer	Y	Y	VW-2, VW-4, VW-17
Washingtonville Fire Department	Y	Y	VW-2, VW-4, VW-17

¹ Areas with a landslide rating in of greater than 37 are considered hazardous. The data was derived from HAZUS software analysis.

Critical Infrastructure	500-Yr Floodplain	Landslide Rating Area	Associated Mitigation Action
Washingtonville Middle School	Y	N	VW-2, VW-4, VW-18
Washingtonville Pediatrics	Y	N	VW-2, VW-4, VW-18
Washingtonville Sewage Treatment Plant	Y	N	VW-2, VW-4, VW-18
Washingtonville Village Hall	Y	N	VW-2, VW-4, VW-17
Washingtonville Water Plant	Y	N	VW-2, VW-4, VW-18

Priority Hazard Events

The following sections detail the priority hazard events identified by the jurisdiction. Additional information about each hazard including frequency, history, and severity within Orange County is included within Section 5.0 of the main body of the Hazard Mitigation Plan (Volume I). The Village of Washingtonville is located within the Town of Blooming Grove. It is assumed that natural hazards identified for the Town of Blooming Grove will also impact residents of the Village.

The probability of climate-related hazard events is generally expected to increase in the future within the Village of Washingtonville. This anticipated increase results from the expected increase in weather volatility associated with climate change. Upstream tributaries such as the Moodna Creek Watershed will experience increased flooding occurrences.

Past occurrences of hazard events are indicated in their respective profiles below. Some hazards may not have locally available documentation of past occurrence, but are nonetheless profiled in this annex to instill future mitigation planning consideration.

Flood

Flooding in the Town is a result from snow melt, heavy rains or other weather conditions. By identifying areas that are prone to flooding, it is possible to restrict development to open space uses, including passive recreation and agricultural uses, which don't obstruct water flow and are tolerant of flooding. The Federal Emergency Management Agency (FEMA) has identified potential flood hazard areas in the Village of Washingtonville along the Moodna Creek, which are shown on FEMA maps. In total only 11% of the County area lies within high or moderate flood risk zones, according to current FIRM data. The Village of Greenwood Lake has the highest proportion of its area within a high flood risk zone, followed by the Town of Goshen. The City of Port Jervis has the highest proportion of land within moderate flood risk zones, followed by the Village of Washingtonville.

Below is a table that illustrates the value of property in the Village of Washingtonville that is located within the 500-year floodplain and is categorized by land use type. This table was derived from FEMA floodplain mapping and parcel data from the Orange County Property Assessor.

Table 10.2.38e: Structures in the Village of Washingtonville Vulnerable to 500-year Flood Events and Their Estimated Values		
Type of Structure	# Structures in Hazard Area	Value of Structures (in millions)
Residential	202	\$50.5
Commercial	299	Unknown
Industrial	0	\$0
Agricultural	4	Unknown
Religious/Non-profit	1	Unknown
Government	6	Unknown
Education	2	Unknown
Utilities	0	\$0
Dams	0	\$0
Parks	1	Unknown
Total	515	\$50.5

Historical Occurrence:

March 8, 2008: Numerous flooded basements had to be pumped out in residential areas of Middletown and Washingtonville. Route 78 near Aspin Rd/Wisner Avenue was also closed due to flooding.

March 13-31, 2010: 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. 1.63 inches of rain fell in the Village of Washingtonville. Heavy rain caused flooding. Widespread flooding in the Village damaged private properties, school facilities, police station, village offices, Fire department, and recreation facilities.

March 7, 2011: 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.

August 26-September 5, 2011: Heavy rain caused flooding which damaged. Widespread flooding damaged private properties, school facilities, police station, village offices, Fire department, and recreation facilities. 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

September 9, 2011: The remnants of Tropical Storm Lee brought a new round of flooding and misery Thursday for people still trying to cope with damage from Hurricane Irene. Heavy rain started to fall across the region by 2:00 a.m., adding two to four inches of precipitation to sodden ground, strained infrastructure and swollen waterways. The Village of Washingtonville was again cut off from all routes except Route 208, and officials were evacuating the Brookside Acres and Washingtonville Manor mobile home parks. Schools were closed or dismissed early across the region as municipalities declared states of emergency, most of them for a second time in as many weeks. The Orange County Government Center, which just reopened Tuesday after being closed the previous week because of damage from Hurricane Irene, shut down again Thursday afternoon.

Extreme Temperatures

For a description of this hazard, please see section 5.1.

Historical Occurrence:

In the past ten (10) years there is no record of any extreme temperatures that have explicitly impacted the Village of Washingtonville. However, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

Severe Thunderstorms/Wind

For a description of this hazard, please see section 5.2.

Historical Occurrence:

In the past ten (10) years there is no record of any severe thunderstorms that have explicitly impacted the Village of Washingtonville. However, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

Drought

For a description of this hazard, please see section 5.5.

Historical Occurrence:

In the past ten (10) years there is no record of any droughts that have explicitly impacted the Village of Washingtonville. However, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

Earthquake

For a description of this hazard, please see section 5.7.

Historical Occurrence:

In the past ten (10) years there is no record of any earthquakes that have explicitly impacted the Village of Washingtonville. However, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

NYS DHSES

Severe Winter Storm

Winter storms create damage due to snowfall and winds, with occasional sleet, freezing rain, or hail occurring. Snowfall impairs visibility, obstructs roadways and facilities, and causes tree limbs to fall and roofs to collapse due to weight. It also creates slick roadways which can be compounded further by sleet or freezing rain events. The Village experiences the effect of severe winter storms frequently.

Historical Occurrences:

- Record Online reported of a major winter storm which impacted the County on February 13-14, 2014. This storm dropped over one (1) foot of snow and high winds to the Town of Blooming Grove, which includes the Village. Power outages were reported within Orange and Rockland Counties.

None of the NCDC records reported specific impacts to the Village. However, typically severe winter storms are large systems and would result in County or regional impacts.

Wildfire

For a description of this hazard, please see section 5.9.

Historical Occurrences:

In the past ten (10) years there is no record of any wildfires that have explicitly impacted the Village of Washingtonville. However, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

Ice Jam

For a description of this hazard, please see section 5.10.

Historical Occurrences:

In the past ten (10) years there is no record of any ice jams that have explicitly impacted the Village of Washingtonville. However, there have been a number of recorded occurrences within Orange County. The information can be found in the main body of the document.

10.2.38.4 Capability Assessment

Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the municipality.

Table 10.2.38f: Planning and Regulatory Capabilities for the Village of Washingtonville		
Regulatory Tools for Hazard Mitigation	Description	Responsible Department/Agency
Codes	Village of Washingtonville Local Law, Building Codes, includes Zoning Law	Village Building inspector, Village Consultant Engineer, Village Zoning Board of Appeals, Village Planning Board
	Codes of New York State (2010), includes provisions for development and activities within floodplain areas	NYS Laws
Ordinances	<ul style="list-style-type: none"> • Zoning Ordinance • Subdivision Ordinance • NFIP Flood Damage Prevention Ordinance • Site Plan Review Requirements • Post-disaster Recovery Ordinance • Real Estate Disclosure Requirement 	<ul style="list-style-type: none"> • Village Planning Board • Village Engineer • Village Engineer • Village Engineer • Mayor and Local Emergency Management • Various local officials
Plans, Manuals, and/or Guidelines	Floodplain Management/ Basin Plan, a public consensus planning document	Village Engineer
	Comprehensive Management Plan	Village Engineer
	Stormwater Management Plan/Ordinance	Village Engineer
	Open Space Plan	Village Planning Board
	Comprehensive Emergency Management Plan	Local Emergency Manager
	Emergency Response Plan	Local Emergency Manager
	Water System Emergency Response Plan	Superintendent of Public Works
Studies	FIRM Flood Insurance Rate Maps	FEMA

Administrative and Technical

Table 10.2.38g: Summary of Administrative and Technical Staff Capabilities for the Village		
Staff/Personnel Resources	<input checked="" type="checkbox"/>	Department/Agency - Position
Planner(s) or engineer(s) with knowledge of land development and land management practices	<input checked="" type="checkbox"/>	Village Consultant Engineer
Engineer(s) or professional(s) trained in construction practices related to buildings and/or infrastructure	<input checked="" type="checkbox"/>	Village Consultant Engineer
Planner(s) or engineer(s) with and understanding of natural and/or human-caused hazards	<input checked="" type="checkbox"/>	Village Consultant Engineer

Table 10.2.38g: Summary of Administrative and Technical Staff Capabilities for the Village		
Staff/Personnel Resources	<input checked="" type="checkbox"/>	Department/Agency - Position
Planner(s) or Engineer(s) with knowledge of land development and land management practices	<input checked="" type="checkbox"/>	Village Consultant Engineer
NFIP Floodplain Manager	<input checked="" type="checkbox"/>	Village Consultant Engineer with the Village Building Inspector
Emergency Manager	<input checked="" type="checkbox"/>	Local Emergency Management
Person skilled or trained in "GIS" applications	<input checked="" type="checkbox"/>	Village Consultant Engineer
Staff with expertise or training in benefit/cost analysis	<input checked="" type="checkbox"/>	Village Consultant Engineer
Grant writer	<input checked="" type="checkbox"/>	Village consultants, as needed

Fiscal

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

Table 10.2.38h: Fiscal Capabilities for the Village of Washingtonville		
Financial Resources	Accessible or Eligible to Use (Yes, No, Don't Know)	Comments
Community Development Block Grants (CDBG)	Yes	Various projects
Capital Improvements Project funding	Yes	Various projects
Authority to levy taxes for specific purposes	Yes	Various projects
Fees for water, sewer, gas, or electric service	Yes	Water and sewer fees
Impact fees for homebuyers or new developments/homes	Yes	Recreation and traffic funding
Incur debt through general obligation bonds	Yes	Used to assist with home buyouts and various projects
Incur debt through special tax bonds	Yes	Various projects
Withhold public expenditures in hazard-prone areas	No	-
State mitigation grant programs	Yes	Village Board for various projects
Other (Governor's Office of Storm Recovery (GOSR), etc.)	Yes	Flood mitigation activities

NFIP: Administrator, Vulnerability, Resources, Compliance

National Flood Insurance Program (NFIP) Summary

The Village of Washingtonville has participated in NFIP (ID# 360638) since December 21, 1973. Administration is provided through the Village consultant engineer. The Village has a floodplain development permit which is also administered by the consultant engineer. This individual is responsible for reviewing Floodplain Development Permit Applications, granting permits, maintaining construction compliance, and reviewing post construction impacts.

According to Table 8.2c, February 2017 data shows that forty-three (43) repetitive loss residential properties remained in the Village, three (3) of which qualified as severe repetitive loss. Other details of NFIP policies within the Village of Washingtonville are provided in below.

The Village has been maintaining NFIP participation by performing the duties and actions that were listed in the local laws that their municipal boards adopted. (Local Law #2 of 1987) The Village Floodplain Administrator has been provided an NFIP best practices guidance package and will be using it to improve local participation in NFIP standards going forward. This package of documents was provided by NYSDHSES and can be found in Appendix F - NFIP Floodplain Administrator Guidance Package.

Table 10.2.38i: NFIP Statistics for the Village of Washingtonville (FEMA)				
NFIP Loss Statistics as of January 31, 2018				
Total Losses	Closed Losses	Open Losses	CWOP Losses	Total Payments
240	218	0	22	\$4,507,977.51
NFIP Policy Statistics As of January 31, 2018				
Policies in-force	Insurance in-force		Written Premium in-force	
88	\$21,735,900		146,512	
CWOP= Losses that have been closed without payment				

Hazard Mitigation: Existing and Planning Mechanisms

Emergency Communications, Routes, and Shelters:

The Village of Washingtonville utilizes the Washingtonville Connect! and Blackboard Connect emergency notifications tools, both available for subscription on the municipal website. Additionally, Orange County uses the CodeRED system for emergency notifications and alerts.

The Village follows emergency route recommendations provided by Orange County. The Village has one (1) designated emergency shelter: Taft Elementary School (10 Toleman Rd., Washingtonville, NY 10992). More information on these sites can be found in Attachment III.

Comprehensive Plan:

The existing Village of Washingtonville Zoning Code was adopted in 2002 and contains some hazard mitigation measures including provisions for flood hazard reduction.

Planning Mechanisms:

While this annex has provided a summary and description of existing plans, policies, and regulatory mechanisms that support hazard mitigation, the 2018 Orange County Hazard Mitigation Plan Update is intended to allow for the integration of its recommendations and data into local plans. Listed below are several planning and policy mechanisms that lend themselves to the integration of materials and objectives from this hazard mitigation plan. Columns to the right indicate whether the municipality has utilized hazard mitigation planning elements in the

past (as in the aftermath of a previous local hazard mitigation plan) and whether they intend to be utilized in the future (which most, if not all, do).

Table 10.2.38j: Incorporation of Hazard Mitigation Planning into Existing and Future Planning Mechanisms		
Planning Mechanism	Has been Utilized	May be Utilized
Capital Improvement Budget: Hazard Mitigation Actions to be considered during the development of annual capital improvement plans. Compliance with Hazard Mitigation goals and objectives as well as the hazard vulnerability of site will be a consideration during the evaluation of infrastructure and facilities projects.	X	X
Operating Budget: Hazard Mitigation Actions to be considered within day-to-day operating budgets as funding permits.	X	X
Building & Zoning Ordinances: Review of the hazard mitigation plan and hazard analyses are part of the evaluation of land use, zoning, and development review ordinances and permitted processes.	X	X
Comprehensive Land Use Plan: Elements such as hazard vulnerability and hazard area extents will be considered during the development of future land use maps and other elements of comprehensive planning.	X	X
Human Resource Manual: Employee job descriptions may contain elements related to hazard mitigation planning and associated recommendations.		X
Grant Applications: Support for funding requests in the form of data, maps, and priority recommendations will be drawn from the hazard mitigation plan.	X	X
Fire Plan: Fire Plans for the municipality and local fire departments can utilize data and mapping in the hazard mitigation plan.	X	X
Local School Service Projects: Municipal officials and staff can explore the possibility of collaboration with local school districts to provide avenues for student community service projects as well as educational opportunities.		X
Economic Development: Local chambers of commerce and other economic development agencies can utilize the hazard mitigation plan to better inform new/expanding businesses in finding a location.		X

Summary

This Plan will be used to inform any future Village Comprehensive Plan updates, Codes, and provide guidance on actions moving forward.

10.2.38.5 Mitigation Strategy and Prioritization

Past, Completed, and Ongoing Initiative

The Village did not identify any past, completed or ongoing mitigation related initiatives. One of the proposed actions from the last local hazard mitigation plan have been completed and is listed in Table 10.2.38k. Proposed Mitigation Actions are listed in Table 10.2.38l.

Completed Actions

Table 10.2.38k: Completed Mitigation Actions/Projects Identified by Village of Warwick				
Action ID	Action	Description	Primary Agency	Funding Source(s)
VW-A	Acquisition of properties in SFHA	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.	Village in cooperation with the Town of Blooming Grove; support from County Planning, NYSDHSES, FEMA	Grants from NYSDHSES, FEMA, GOSR

Proposed Hazard Mitigation Initiatives

Table 10.2.38I: Proposed Hazard Mitigation Initiatives for the Village of Washingtonville

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures	Hazard(s) Mitigated	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
Mitigation Type: Prevention										
VW-1	Continue to support the implementation, monitoring, maintenance, and updating of this Plan.	New and Existing	All Hazards	Village Board, Village Clerk, Village Consultant Engineer, Village Building Inspector with support from Orange County Government, NYSDHSES, FEMA	High	Low – High (for 5 year update)	Municipal Budget FEMA planning grants	On-going	H	PR
VW-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	Village Board, NY Rising – Washingtonville Planning Committee, Town of Blooming Grove Board, GOSR	Medium	High	Operating Budget	Short	H	PR
VW-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 and/or exceed the minimum NFIP standards and criteria through the following NFIP-related continued compliance actions identified as Initiatives VW-7 and VW-13 below.	N/A	Flood, Severe Storm	Village Board, Village Consultant Engineer, Village Building Inspector, NYSDEC, , FEMA	Medium	Low-Medium	Municipal Budget	On-Going	M	PR, PE
VW-4	Implement, review, and enforce municipal policies and programs to prevent trees from threatening lives and impacting power availability/interruption.	N/A	Severe Storm	Village Building Inspector	Medium	Low	Municipal Budget	Short	M	PR
VW-5	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations	N/A	All Hazards	Village Board, with support from Orange County, NYSDHSES, and surrounding communities	Medium	Low	Municipal Budget	Short Term	M	PR, ES
VW-6	Implement permit fee waivers for installation of backup power for private property.	N/A	Severe Storm	Village Board	Medium	Low	Municipal Budget	Short	M	PR

Table 10.2.38I: Proposed Hazard Mitigation Initiatives for the Village of Washingtonville

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures	Hazard(s) Mitigated	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
VW-7	Obtain and archive elevation certificates	N/A	Flood, Severe Storm	Village Building Inspector and Village Consultant Engineer	Medium	Low	Municipal Budget	On-going	M	PR
VW-8	Support ongoing updates of Comprehensive Emergency Management Plans.	New and Existing	All Hazards	Village Board, Local Emergency Manager, Village Police, Washingtonville Fire District, Blooming Grove EMS, with support from Orange County Emergency Services	Low	Low	Municipal Budget	On-going	M	PR
VW-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 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.	N/A	All Hazards	Village Consultant Engineer, Local Emergency Manager, Orange County Hazard Mitigation Plan Coordinator, Moodna Creek Alliance	Medium-High	Medium-High	FEMA Mitigation Grant Programs with local Match	Long Term	M	PR
VW-10	Incorporate ordinances and/or zoning restrictions to control and mitigate future development in hazard areas.	N/A	All Hazards	Village Board, Village Planning Board, Village Zoning Board of Appeals with support from Orange County	Medium	Medium	Municipal Budget	Short	M	PR
VW-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	Village Board and Village Clerk with support from Orange County	Medium	Medium	Municipal Budget	Short	M	PR

Table 10.2.38I: Proposed Hazard Mitigation Initiatives for the Village of Washingtonville

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures	Hazard(s) Mitigated	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
VW-12	Research, purchase, install, and maintain a system of staff gauges and automatic level 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.	N/A	Flood	Village Engineer, Watershed Planning Groups, County OEM, NYSDEC	Medium	Medium	FEMA Mitigation Grant Programs with local match	Short	M	PR
VW-13	Promote the participation of Floodplain Administrators within the planning process and other activities.	N/A	Flood	Village Board, Village Building Inspector, Village Consultant Engineer, Local Emergency Manager with support from Orange County, NYSDEC and FEMA	Medium	Medium	Municipal Budget	Short	M	PR
VW-14	Work with regional agencies (i.e. County and NYSDHSES) 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	Various Village Officials with support from Orange County	Medium	Medium	Municipal Budget, FEMA, HMA and HLS grant programs	Short-Long Term	M	PR
VW-15	Adopt regulations for undergrounding utilities in new developments, and install electric lines underground where possible throughout the Village	N/A	Severe Storm	Village Board	Medium	Medium-High	Municipal Budget	Long Term	L	PR
VW-16	Identify and develop agreements with entities that can provide support with FEMA/NYS DHSES paperwork after disasters; qualified assessment personnel –Improve post-disaster capabilities – damage assessment; FEMA/NYS DHSES paperwork compilation, submissions, record-keeping	N/A	All Hazards	Village Board with support from Orange County Emergency Management, NYSDHSES and FEMA	Medium	Medium	Municipal Budget	Short Term	L	PR, ES
Mitigation Type: Property Protection										
VW-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	Village Board and support from NYSDHSES, FEMA	High	High	FEMA Mitigation Grants	On going	H	PP

Table 10.2.38: Proposed Hazard Mitigation Initiatives for the Village of Washingtonville

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures	Hazard(s) Mitigated	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
VW-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 determined action based on available funding from FEMA and local match availability. Projects for immediate action include 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.	Existing	Flood, Sever Storm	Village Board in cooperation with the Town of Blooming Grove Town Board; support from Orange County Government, GOSR, Elected State and Federal Representatives, , NYSDHSES, FEMA	High	High	FEMA Mitigation Grants	Long Term	H	PP
Mitigation Type: Public Education and Awareness										
VW-19	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 important water resources facilities - 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.	N/A	All Hazards	Village Board, Local Emergency Manager, NY Rising Washingtonville Planning Committee with support from Orange County Government, NYSDHSES, FEMA	Medium	Medium	Municipal Budget, HMA programs with local or county match	Short Term	M	PE
VW-20	Provide public education and outreach on proper installation and/or use of backup power	N/A	Severe Storm	Village Building Inspector	Medium	Low	Municipal Budget	Short	M	PE

Table 10.2.38: Proposed Hazard Mitigation Initiatives for the Village of Washingtonville

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures	Hazard(s) Mitigated	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
VW-21	Enhance the Village's resilience to severe storms (incl. severe winter storms) by joining the NOAA "Storm Ready" program and supporting communities in joining the program.	N/A	Severe Storm	Village Board and Local Emergency Manager with support from Orange County Emergency Management, NYSDHSES and FEMA	Medium	Low	Municipal Budget	Short Term	M	PE
VW-22	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	Village Board, Village DPW, Moodna Creek Alliance, with support from Town of Blooming Grove Town Board	Medium	Low	Municipal Budget, Volunteer	Short Term	M	PE
Mitigation Type: Natural Resources Protection										
VW-23	Facilitate drainage improvements throughout the Village. Phase 1 will include a study and concept design.	N/A	Flood	Village Board, Village Consultant Engineer, and Village DPW	High	Medium	Municipal Budget, HMA programs with local or County match	Long Term	H	NR

Table 10.2.38I: Proposed Hazard Mitigation Initiatives for the Village of Washingtonville

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures	Hazard(s) Mitigated	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
VW-24	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.	Both	Flood	Village Board, Village Consultant Engineer, Village DPW, GOSR and NY Rising Washingtonville Planning Committee in cooperation with the Town of Blooming Grove Town Board; support from Orange County , Moodna Creek Alliance, USACE, NYSDEC, FEMA	High	Medium	Municipal Budget, HMA programs with local or County match	Long Term	H	NR
VW-25	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 would involve an in depth study of the costs, benefits, and impacts of dam removal.	Existing	Flood	Village Board, Village Consultant Engineer, Village DPW, GOSR and NY Rising Washingtonville Planning Committee in cooperation with the Town of Blooming Grove Town Board; support from Orange County , Moodna Creek Alliance, USACE, NYSDEC, FEMA	High	High	Municipal Budget, HMA programs with local or County match	Long Term	M	NR
VW-26	Flood proofing of water/wastewater facility: The village wastewater facility is currently in construction with H2M, but not designed to be flood proof to withstand a 500-yr flood event.	Both	Flood	Village Board, Village Consultant Engineer, Village DPW,NYSDHSES and NYSDEC	Medium	Medium	Municipal Budget HMA programs with local or County match	Short Term	M	NR

Table 10.2.38I: Proposed Hazard Mitigation Initiatives for the Village of Washingtonville

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures	Hazard(s) Mitigated	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
VW-27	Consider debris removal from Moodna Creek, including identifying the location of, and potential removal of, Beaver Dams in the Creek.	N/A	Flooding	Village Board, Village Consultant Engineer, Village DPW, GOSR and NY Rising Washingtonville Planning Committee in cooperation with the Town of Blooming Grove Town Board; support from Orange County , Moodna Creek Alliance, USACE, NYSDEC, FEMA	Medium	Medium	Municipal Budget	Short Term	M	NR
VW-28	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	Village Board, Village Consultant Engineer, Village DPW, GOSR and NY Rising Washingtonville Planning Committee in cooperation with the Town of Blooming Grove Town Board; support from Orange County , Moodna Creek Alliance, USACE, NYSDEC, FEMA	Low	Medium	Municipal Budget, HMA programs with local or county match	Long Term	L	NR
VW-29	Modification of Salisbury Mill hydroelectric dam to control Creek water level.	Existing	Flood	Town of Blooming Grove Town Board, Village Board, Village Consultant Engineer, Village DPW, GOSR and NY Rising Washingtonville Planning Committee with support from Orange County , Moodna Creek Alliance, USACE, NYSDEC, FEMA	Medium	Medium	Municipal Budget	Short Term	M	SP

Table 10.2.381: Proposed Hazard Mitigation Initiatives for the Village of Washingtonville

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures	Hazard(s) Mitigated	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
Mitigation Type: Emergency Services										
VW-30	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 Emergency Alert System Plan, currently under development.	N/A	All Hazards	Village Board and Town Board, Local Emergency Manager, ; support from Orange County Emergency Services, NYSDHSES and FEMA	High	Medium	Municipal Budget	Short	H	ES
VW-31	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	Village Board, Village Police Department, Village Consultant Engineer, Village DPW with support from NYSDHSES and FEMA	Medium	Medium	Municipal Budget	Short Term	H	ES
<p>1. <i>PR = Prevention: Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.</i></p> <p>2. <i>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.</i></p> <p>3. <i>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.</i></p> <p>4. <i>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.</i></p> <p>5. <i>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.</i></p> <p>6. <i>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. 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</i></p>										

STAPLEE forms were completed for each of these actions. A table with these evaluations can be found in Attachment II of this jurisdictional annex.

“STAPLEE” refers to the following lenses of evaluation: social, technological, administrative, political, legal, economic, and environmental.

Future Needs

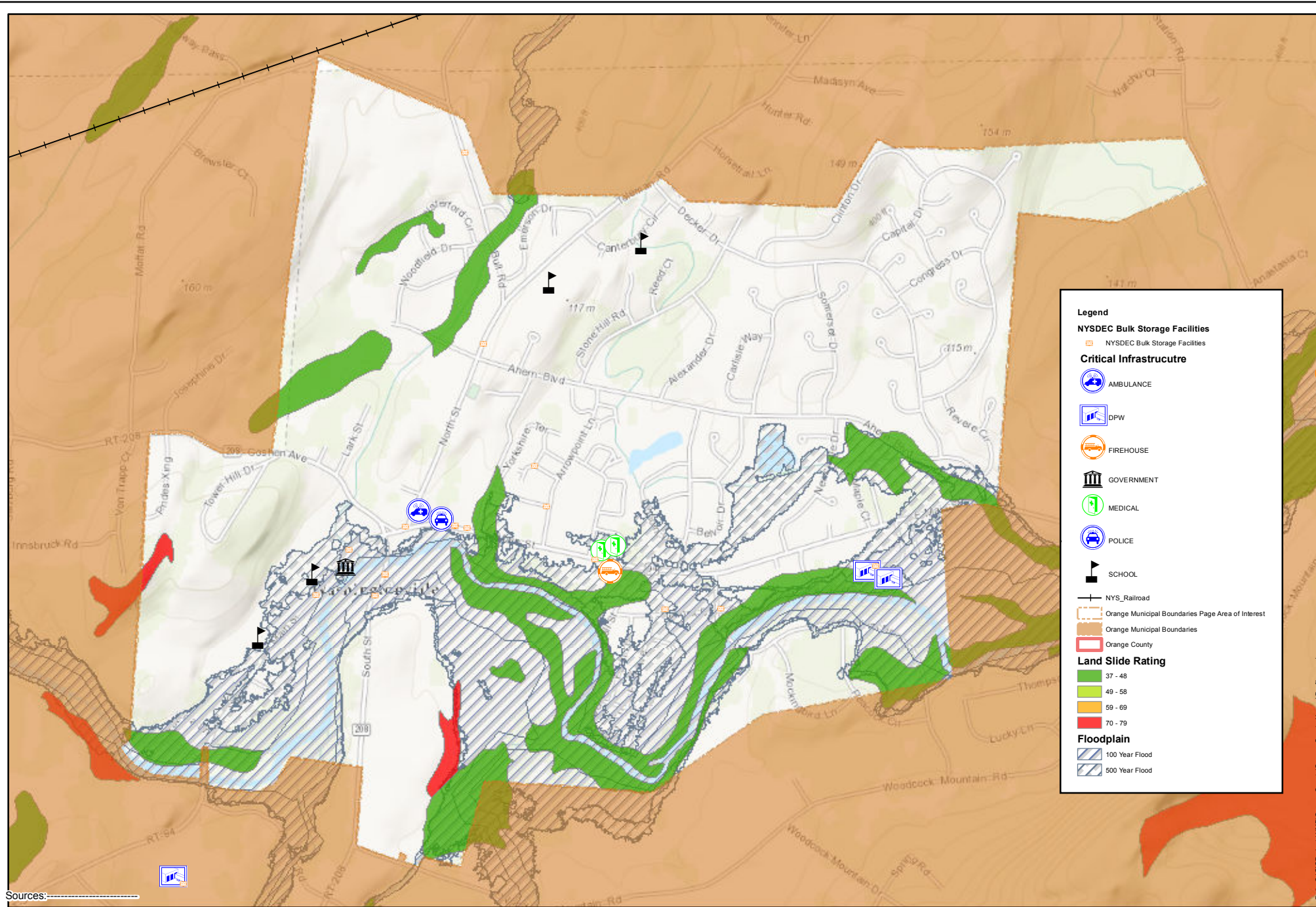
The Village did not identify any future needs outside of the mitigation actions outlined above.

10.2.38.6 Hazard Area Extent and Location

A map demonstrating the location of certain hazard areas is attached as Attachment I.

Attachment I

**Hazard Area Extent and Location Map -
Village of Washingtonville**



Sources: _____



Path: c:\enr\gis\maps\orange_county\hazmit\fig002.mxd

Attachment II

STAPLEE Mitigation Action Cost/Benefit Analysis - Village of Washingtonville

STAPLEE Criteria Consideration Tables
Mitigation Action Prioritization and Comparison

Jurisdiction: Village of Washingtonville

Action ID	Action	S	T	A	P	L	E	E	Can action be easily implemented?	Does action achieve multiple plan objectives?	Can action be quickly implemented?	Level of action benefits	Level of action overall costs	Priority ranking
		+ = benefit (favorable), - = cost (unfavorable), 0 = neutral or N/A											Levels = high, medium, or low	
VW-1	Continue to support the implementation, monitoring, maintenance, and updating of this Plan.	+	+	0	+	+	+	+	+	+	0	High	Medium	High
VW-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.	+	+	+	+	0	+	+	0	+	0	High	Medium	High
VW-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 and/or exceed the minimum NFIP standards and criteria through the following NFIP-related continued compliance actions identified as Initiatives WASH-7 and WASH-13 below.	+	+	0	+	+	+	+	0	+	0	Medium	Medium	High
VW-4	Implement, review, and enforce municipal policies and programs to prevent trees from threatening lives and impacting power availability/ interruption.	+	+	+	+	+	0	-	0	+	0	Medium	Medium	Low
VW-5	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations	+	+	+	+	0	+	0	+	+	0	High	Low	High
VW-6	Implement permit fee waivers for installation of backup power for private property.	0	+	+	0	0	+	-	0	+	0	Medium	High	Low
VW-7	Obtain and archive elevation certificates	+	+	0	+	+	+	+	+	+	+	Medium	Low	Medium
VW-8	Support ongoing updates of Comprehensive Emergency Management Plans.	+	+	-	0	+	+	+	0	+	0	High	Medium	Medium

STAPLEE Criteria Consideration Tables
Mitigation Action Prioritization and Comparison

Jurisdiction: Village of Washingtonville

Action ID	Action	S	T	A	P	L	E	E	Can action be easily implemented?	Does action achieve multiple plan objectives?	Can action be quickly implemented?	Level of action benefits	Level of action overall costs	Priority ranking
		+ = benefit (favorable), - = cost (unfavorable), 0 = neutral or N/A											Levels = high, medium, or low	
VW-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 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.	+	+	0	+	0	+	+	+	+	+	Medium	Medium	Medium
VW-10	Incorporate ordinances and/or zoning restrictions to control and mitigate future development in hazard areas.	0	0	0	+	0	0	+	-	+	-	High	Medium	High
VW-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).	+	+	0	+	+	+	+	0	+	0	Medium	Medium	Medium
VW-12	Research, purchase, install, and maintain a system of staff gauges and automatic level 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.	+	+	0	+	+	0	+	0	+	-	Medium	Medium	High
VW-13	Promote the participation of Floodplain Administrators within the planning process and other activities.	+	+	+	+	+	+	+	+	+	+	Medium	Low	High

STAPLEE Criteria Consideration Tables
Mitigation Action Prioritization and Comparison

Jurisdiction: Village of Washingtonville

Action ID	Action	S	T	A	P	L	E	E	Can action be easily implemented?	Does action achieve multiple plan objectives?	Can action be quickly implemented?	Level of action benefits	Level of action overall costs	Priority ranking
		+ = benefit (favorable), - = cost (unfavorable), 0 = neutral or N/A											Levels = high, medium, or low	
VW-14	Work with regional agencies (i.e. County and NYSDHSES) 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.	+	+	0	+	0	+	+	0	+	-	Medium	Medium	Medium
VW-15	Adopt regulations for undergrounding utilities in new developments, and install electric lines underground where possible throughout the Village	+	+	-	0	0	-	-	+	+	0	Medium	Low	Medium
VW-16	Identify and develop agreements with entities that can provide support with FEMA/NYSDHSES paperwork after disasters; qualified assessment personnel –Improve post-disaster capabilities – damage assessment; FEMA/NYSDHSES paperwork compilation, submissions, record-keeping	+	+	+	+	0	0	0	0	+	-	Medium	Medium	Medium
VW-17	Relocate emergency and governmental services outside of floodplain. Plans to construct a new Village Hall are currently being considered by Village officials.	+	+	0	+	+	0	+	-	+	-	High	High	Medium

STAPLEE Criteria Consideration Tables
Mitigation Action Prioritization and Comparison

Jurisdiction: Village of Washingtonville

Action ID	Action	S	T	A	P	L	E	E	Can action be easily implemented?	Does action achieve multiple plan objectives?	Can action be quickly implemented?	Level of action benefits	Level of action overall costs	Priority ranking
		+ = benefit (favorable), - = cost (unfavorable), 0 = neutral or N/A											Levels = high, medium, or low	
VW-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 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.	0	+	+	+	0	-	+	-	+	0	Medium	Medium	Medium

STAPLEE Criteria Consideration Tables
Mitigation Action Prioritization and Comparison

Jurisdiction: Village of Washingtonville

Action ID	Action	S	T	A	P	L	E	E	Can action be easily implemented?	Does action achieve multiple plan objectives?	Can action be quickly implemented?	Level of action benefits	Level of action overall costs	Priority ranking
		+ = benefit (favorable), - = cost (unfavorable), 0 = neutral or N/A										Levels = high, medium, or low		
VW-19	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 important water resources facilities - 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.	+	+	0	+	+	0	0	+	+	-	High	Low	High
VW-20	Provide public education and outreach on proper installation and/or use of backup power	+	+	+	+	+	0	0	0	+	0	Medium	Low	Medium
VW-21	Enhance the Village's resilience to severe storms (incl. severe winter storms) by joining the NOAA "Storm Ready" program and supporting communities in joining the program.	+	+	+	+	+	0	0	0	+	0	Medium	Low	Medium

STAPLEE Criteria Consideration Tables
Mitigation Action Prioritization and Comparison

Jurisdiction: Village of Washingtonville

Action ID	Action	S	T	A	P	L	E	E	Can action be easily implemented?	Does action achieve multiple plan objectives?	Can action be quickly implemented?	Level of action benefits	Level of action overall costs	Priority ranking
		+ = benefit (favorable), - = cost (unfavorable), 0 = neutral or N/A											Levels = high, medium, or low	
VW-22	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.	0	+	0	+	+	0	+	0	+	0	Medium	Medium	Medium
VW-23	Facilitate drainage improvements throughout the Village. Phase 1 will include a study and concept design.	+	+	+	+	+	0	+	-	+	-	Medium	Medium	Low
VW-24	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.	+	+	0	+	+	0	+	-	+	-	High	Medium	Medium

STAPLEE Criteria Consideration Tables
Mitigation Action Prioritization and Comparison

Jurisdiction: Village of Washingtonville

Action ID	Action	S	T	A	P	L	E	E	Can action be easily implemented?	Does action achieve multiple plan objectives?	Can action be quickly implemented?	Level of action benefits	Level of action overall costs	Priority ranking
		+ = benefit (favorable), - = cost (unfavorable), 0 = neutral or N/A											Levels = high, medium, or low	
VW-25	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 would involve an in depth study of the costs, benefits, and impacts of dam removal.	+	+	0	+	+	0	+	-	+	-	High	Medium	High
VW-26	Flood proofing of water/wastewater facility: The village wastewater facility is currently in construction with H2M, but not designed to be floodproof.	+	+	+	+	+	-	+	0	+	-	High	Medium	High
VW-27	Consider debris removal from Moodna Creek, including identifying the location of, and potential removal of, Beaver Dams in the Creek.	+	+	0	+	0	0	+	0	+	0	Medium	Medium	Medium
VW-28	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.	+	+	0	+	0	-	0	0	+	-	Medium	Medium	Low
VW-29	Modification of Salisbury Mill hydroelectric dam to control Creek water level.	+	+	-	+	+	-	0	-	+	-	Medium	High	Medium
VW-30	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 Emergency Alert System Plan, currently under development.	+	+	+	+	+	+	0	0	+	0	High	Medium	Medium
VW-31	Obtain and install backup power sources at critical facilities, including a portable generator for the Village Police Station to provide service throughout the village.	+	+	0	+	+	0	0	+	+	0	Medium	Medium	High

Attachment III

**Hazard Mitigation Worksheets -
Village of Washingtonville**

Mitigation Actions and Strategy Detail Worksheet

Action Worksheet	
Name of Jurisdiction	Village of Washingtonville
Name of Hazard Mitigation Plan	Orange County Multi-Jurisdictional Hazard Mitigation Plan
Potential Actions/Projects (not being implemented at this time)	
Action/Project Number	VW – 18
Name of Action/Project	Purchase/Relocation/Elevation of Structures in Hazard-Prone Areas
Summary of Evaluation: Benefits (losses avoided), estimated costs, and other factors considered	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 determined action based on available funding from FEMA and local match availability. Projects for immediate action include 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.
Plan for Implementation	
Responsible Organization	Village Board in cooperation with the Town of Blooming Grove Town Board, Orange County government, GOSR, Elected State & Federal Representatives, NYSDHSES, FEMA
Action/Project Priority	High

Potential Funding Sources	FEMA Mitigation Grants
Other assisting organizations, entities, etc.	N/A
Local planning mechanisms to be used in project/action implementation, if any	None.
Progress Report	
Date of status report	
Report of progress	
Evaluation of effectiveness	

Mitigation Actions and Strategy Detail Worksheet

Action Worksheet	
Name of Jurisdiction	Village of Washingtonville
Name of Hazard Mitigation Plan	Orange County Multi-Jurisdictional Hazard Mitigation Plan
Potential Actions/Projects (not being implemented at this time)	
Action/Project Number	VW – 31
Name of Action/Project	Backup power
Summary of Evaluation: Benefits (losses avoided), estimated costs, and other factors considered	Obtain & install backup power sources at critical facilities, including a portable generator for the Village Police Station to provide service throughout the Village.
Plan for Implementation	
Responsible Organization	Village Board, Village Police Department, Village Consultant Engineer, Village DPW
Action/Project Priority	High
Potential Funding Sources	Municipal Budget
Other assisting organizations, entities, etc.	NYS DHSES, FEMA
Local planning mechanisms to be used in project/action implementation, if any	None.
Progress Report	
Date of status report	
Report of progress	
Evaluation of effectiveness	

Orange County
Multi-Jurisdictional All Natural Hazard Mitigation Plan
Emergency Shelter Questionnaire

Name of Your Municipality:	<u>Village of Washingtonville</u>
Common Name of Your Emergency Shelter:	<u>Taft Elementary School</u>
Street Address of Your Emergency Shelter:	<u>10 Toleman Road, Washingtonville, NY 10992</u>
Name of the Owner of Your Emergency Shelter:	<u>Washingtonville Central School District</u>
Name of the Regular Occupant of Your Emergency Shelter:	<u>Washingtonville Central School District</u>

Name of Jurisdiction: _____

**RESOLUTION
TO AUTHORIZE THE ACCEPTANCE AND ADOPTION OF THE
MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE FOR
ORANGE COUNTY, NEW YORK**

WHEREAS, the Orange County Department of Emergency Services, with the assistance from Barton & Loguidice, D.P.C., has gathered information and prepared the Multi-Jurisdictional Hazard Mitigation Plan Update for Orange County, New York; and

WHEREAS, the Multi-Jurisdictional Hazard Mitigation Plan Update for Orange County, New York has been prepared in accordance with the Disaster Mitigation Act of 2000 and Title 44 Code of Federal Regulations (CFR), Part 201; and

WHEREAS, Title 44 CFR, Chapter 1, Part 201.6(c)(5) requires each local government participating in the preparation of a Multi-Jurisdictional Mitigation Plan or Plan Update to accept and adopt such plan; and

WHEREAS, the Village of Washingtonville, has reviewed the 2016 Multi-Jurisdictional Hazard Mitigation Plan Update for Orange County, has found the document to be acceptable, and as a local unit of government, has afforded its citizens an opportunity to comment and provide input regarding the Plan Update and the actions included in the Plan;

WHEREAS, the Village of Washingtonville, will consider the Multi-Jurisdictional Hazard Mitigation Plan Update for Orange County during the implementation and updating of local planning mechanisms, and will incorporate the hazard assessment data, hazard vulnerabilities, and mitigation actions in these mechanisms, where applicable;

NOW THEREFORE, BE IT RESOLVED, that the Village of Washingtonville, as a participating jurisdiction, adopts the Multi-Jurisdictional Hazard Mitigation Plan Update for Orange County, New York, dated May 2016.

This resolution was thereupon declared duly adopted on _____.

(Mayor)

(Clerk)