

**9.1. TOWN OF BLOOMING GROVE**

This section presents the jurisdictional annex for the Town of Blooming Grove.

**9.1.1. HAZARD MITIGATION PLAN POINT OF CONTACT**

<b>Hazard Mitigation Plan Points of Contact</b>	
<b>Primary Point of Contact</b>	<b>Alternate Point of Contact</b>
Name: Frank Fornario, Town Supervisor Address: 6 Horton Road PO Box 358 Blooming Grove, New York Phone Number: 845-496-5223 Fax Number: 845-496-1362 E-mail Address: townofbg@frontiernet.net	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

**9.1.2. PROFILE**

**Population**

The population of the Town of Blooming Grove is estimated to be 18,028, based on information gathered during the 2010 U.S. Census.

**Location**

The Town of Blooming Grove covers approximately 35 square miles. The Town is located in the central portion of Orange County. The Town of Blooming Grove is bordered to the east by the Towns of Woodbury and Cornwall, to the north by the Towns of New Windsor and Hamptonburgh, to the west by the towns of Chester and Goshen, and to the south by the Town of Monroe and Village of Kiryas Joel (Town of Blooming Grove, 2011).

**Brief History**

The Town of Blooming Grove was first settled in the early 1720s and was previously named Cornwall Township. Industry grew in the form of flour mills, rag mill, and saw mills using the Satterly Creek for power. In 1830, an eastern part of the Town was incorporated into the Town of Hamptonburgh, and in 1843 a southern part of the Town was incorporated into the Town of Chester (Van Deusen et al 1908.) Post World War II, the greater New York population grew significantly; creating a market for dairy farmers within the Town of Blooming Grove. The rapid growth and the trend of commuting to work create the feeling of a bedroom community. Despite the changes in occupation and commuting trends, the Town cherishes its rural character, and this can be seen in the vision statement of the Comprehensive Plan (Blooming Grove Comprehensive Plan 2005).

The Town seeks to retain its rural character by directing commercial development in appropriate locations and providing a broad range of housing options (Blooming Grove Comprehensive Plan, 2005 p2-1)

Currently, a good portion of residents commute to New York City for employment via bus and rail services. The Town is located within the triangle formed by three major highways: Interstate 84, New York State Thruway, and New York Route 17. The Town of Blooming Grove’s economy has shifted



away from agriculture, manufacturing, and industry toward sales and service (Blooming Grove Comprehensive Plan, 2005.)

**Governing Body Format**

The Town of Blooming Grove governing body consists of a town supervisor, deputy town supervisor, and three board members. The Town also has departments of assessor, building inspector, highway, justice court, parks buildings and grounds, police and senior.

**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 County. Those items listed with bold text are projects that the County (as an independent governing body) is planning. Other items listed are general growth/development trends expected within various municipalities. Refer to the map in section 9.1.10 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
Lake Blooming Grove	Residential	37 Lots	Lake Road	3-1-59.21	None	Conditional: Final Planning Board approval
Tuthill Park	Residential	180 Attached homes	Tuthill Road	18-1-77.1 and 77.2	None	Concept
Mountco	Residential and Commercial	900	Murray Road	52-1-2	None	Concept

**9.1.3. NATURAL HAZARD EVENT HISTORY SINCE 2008**

The Town of Blooming Grove 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 and its municipalities. 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 Storm	December 11, 2008	EM-3299	Yes	Two lows combined for a prolonged period of freezing rain. Up to one half inch of ice was reported in Orange County. The conditions caused one major automobile accident with eight injuries, downed trees, and downed power lines.
Severe Storms and Flooding (Nor'Easter)	March 13-31, 2010	DR-1899	Yes	Heavy rain caused flooding which damaged to private property, local bridges, roads, culverts, the Tappan Water and Wastewater plants, Moffat Library, and Mays Field Recreational Complex.
TSTM/Wind	June 24, 2010	N/A	N/A	No damages were reported/ available.
Lightning	July 19, 2010	N/A	N/A	No damages were reported/ available.
Lightning	July 21, 2010	N/A	N/A	No damages were reported/ available.
Flood	March 7, 2011	N/A	N/A	No damages were reported/ available.
Tornado	July 29, 2011	N/A	N/A	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.
Hurricane Irene	August 26-September 5, 2011	DR-4020	Yes	Heavy rain caused flooding which damaged to private property, local bridges, roads, culverts, the Tappan Water and Wastewater plants, Moffat Library, the Salisbury Mills Fire Company headquarters, and Mays Field Recreational Complex.
Remnants of Tropical Storm Lee	September 7-11, 2011	DR-4031	Yes	Remnants of Tropical Storm Lee produced heavy rains and caused flash flooding and river flooding across parts of central New York State and northeast Pennsylvania.

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Natural Hazard Event History				
Event Type	Date(s) of Event	FEMA Declaration	Orange County Designated?	Approximate Damage Assessment
				As of April 4, 2013, more than \$55M in individual assistance and \$126M in public assistance grants had been awarded by FEMA to affected counties in the State of New York. Specific damages for Orange county were not available at this time.
Hurricane Sandy	October 27 – November 8, 2012	DR-4085	Yes	Heavy rain caused flooding which damaged to private property, local bridges, roads, culverts, the Tappan Water and Wastewater plants, Moffat Library, and Mays Field Recreational Complex. High winds also downed trees and power lines causing widespread power outages.

Note:

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



9.1.4. NATURAL HAZARD RISK/VULNERABILITY RISK RANKING

The table below summarizes the vulnerability risk rankings of potential hazards of the Town of Blooming Grove.

Table 9.1-1 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 <sup>a, c, d</sup>	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking <sup>b</sup>
Flood	1% Annual Chance: \$57,316,000 0.2% Annual Chance: \$73,062,000	Frequent	30	High
Severe Storm	100-Year MRP: \$969,508 500-Year MRP: \$6,279,060 Annualized Loss: \$66,773	Frequent	18	Medium
Severe Winter Storm	1% of GBS: \$8,506,130 5% of GBS: \$42,530,650	Frequent	39	High
Earthquake	500-Year MRP: \$770,641 2,500-Year MRP: \$14,582,543 Annualized Loss: \$12,716	Rare	6	Low
Drought	Not available	Occasional	12	Medium
Extreme Temperature	Not available	Occasional	12	Medium
Wildfire	Not available	Occasional	22	High

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.

**9.1.5. 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 Town of Blooming Grove indicated that the municipality has limited fiscal capability, moderate planning and regulatory capability, and high administrative and technical capability, 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 Town of Blooming Grove.

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	Jeanne Ovensen, Building Inspector	2010
2) Zoning Ordinance	Y	Carol LaRocca, Zoning Board Clerk	12/2005
3) Subdivision Ordinance	Y	Christina Gleason, Planning Board Clerk	8/2008
4) NFIP Flood Damage Prevention Ordinance	Y	McGoey,Hauser&Edsall Engr; Jim Farr P.E, Town Engineer	8/2008
4a) Cumulative Substantial Damages			
4b) Freeboard			
5) Growth Management			
6) Floodplain Management / Basin Plan	Y	McGoey,Hauser&Edsall Engr; Jim Farr P.E, Town Engineer	
7) Stormwater Management Plan/Ordinance	Y	Dave Hoffman, Code Enforcement Officer	
8) Comprehensive Plan / Master Plan/ General Plan	Y	Christina Gleason, Planning Board Clerk	
9) Capital Improvements Plan			Under Development
10) Site Plan Review Requirements	Y	Dave Hoffman, Code Enforcement Officer	
11) Open Space Plan	Y	Christina Gleason, Planning Board Clerk	
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	Christina Gleason, Planning Board Clerk	
16) Emergency Response Plan	Y		
17) Post-Disaster Recovery Plan			
18) Post-Disaster Recovery Ordinance			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)
19) Real Estate Disclosure Requirement			Under Development
20) Other (Special Purpose Ordinances such as critical or sensitive areas)			





**Administrative and Technical Capability**

The table below summarizes staff and personnel resources available to the Town of Blooming Grove.

<b>Administrative and Technical Capability</b>		
<b>Staff / Personnel Resources</b>	<b>Available (Y or N)</b>	<b>Department / Agency / Position</b>
1) Planner(s) or Engineer(s) with knowledge of land development and land management practices	Y	McGoey, Hauser & Edsall Engr., Jim Farr P.E.
2) Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	McGoey, Hauser & Edsall Engr., Jim Farr P.E.
3) Planners or engineers with an understanding of natural hazards	Y	McGoey, Hauser & Edsall Engr., Jim Farr P.E.
4) NFIP Floodplain Administrator	Y	McGoey, Hauser & Edsall Engr., 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	N	
9) Grant Writer(s)	N	
10) Staff with expertise or training in benefit/cost analysis	Y	McGoey, Hauser & Edsall Engr., Jim Farr P.E.

**Fiscal Capability**

The table below summarizes financial resources available to the Town of Blooming Grove.

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

**Community Classifications**

The table below summarizes classifications for community program available to the Town of Blooming Grove.

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 Town of Blooming Grove’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/>

**9.1.6. 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 Town of Blooming Grove noted the following mitigation actions which have been initiated and/or completed in the past:

- Review of potential residential property acquisitions in vulnerable areas;
- Procurement of a back-up generator for Water District #2. The town is bonding for funds for back-up generator for Water District #3.



- Completed sewer district raising of four valves, and currently awaiting replacement of surge suppressor and four actuators.
- The Town and Villages are participating in an oversight committee to address stormwater storage in the Moodna and widening of the Slatterly Creek. At present there are ongoing discussion with the science and data subcommittee with the Moodna Creek Watershed Inter-municipal council regarding potential locations for storage;
- Contracts have been signed to replace the lake and Glen Road Bridges;
- Completed review along Mayfield;
- Elevation of Tappan water facility has been completed;
- School is looking into the relocation of Town maintenance garage

Mitigation actions which have been, or will be incorporated into the Town's planning and land use mechanisms are noted in Section 9.1.10 of this Annex.

**Hazard Vulnerabilities Identified**

The Town has identified the Following Vulnerable areas:

- Flooding
  - Tappan Homes Subdivision damage to homes, water/sewer plant, roads, drainage structures.
  - Mt. Lodge Park/Glenwood Community road and homes damage
  - Mt. Lodge Road flooding
  - Clove Road flooding
  - Tuthill Road
  - Cardinal Drive
  - Salisbury Mills area
  - Route 94
  - Hudson Drive
  - Horton Road
  - Museum Village Road
  - Central Garage Flooding
  - Salisbury Mills Fire Department Headquarters
  - Mays Field Recreation Complex
  - Other Roadways in need of Drainage Improvements
    - Hulsetown Road
    - Goshen Road
    - Station Road
    - Farmingdale Road
    - Prospect Road
    - Bull Mine Road
- Power Outages
  - All water/sewer Districts
  - Mt. Lodge Park Community
  - Tomahawk Lake
  - Town Wide

It is estimated that in the Town of Blooming Grove, 281 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 171 (3.9%) are located within the 1% annual chance flood area. An estimated \$50,037,000 (3.7%) of the municipality's general building stock replacement cost value (structure and contents) is located within the 1% annual chance flood area.

There are 92 NFIP policies in the community and there are 53 policies located within the 1% annual chance flood area. FEMA has identified 5 Repetitive Loss (RL) properties including 3 Severe Repetitive Loss (SRL) properties in the municipality.

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HAZUS-MH estimates that for a 1% annual chance flood, \$18,089,000 (1.4%) of the municipality's general building stock replacement cost value (structure and contents) will be damaged, 533 households may be displaced, 220 people may seek short-term sheltering, and an estimated 2,497 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 9.1-2 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)
Town of Blooming Grove	92	123	\$1,987,348	5	3	53	65	27

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.

(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 current number of policies in force for the Town of Blooming Grove (92 – as of January 2013) is less than what is reported in the Orange County Hazard Mitigation Plan (326 - as of September 30, 2010). The number of policies in force reported in this Plan has been confirmed with the online data available with these statistics as of May 31, 2013: <http://bsa.nfipstat.fema.gov/reports/1011.htm#NYT>.

Table 9.1-3 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 <sup>(1)</sup>	Percent Structure Damage	Percent Content Damage	Days to 100-Percent <sup>(1)</sup>
Salisbury Mills Fire	Blooming Grove (T)	Fire	X	X	11	41	480	15	72	630
Tappan Sewer	Blooming Grove (T)	WW		X	-	-	-	-	-	-
Tappan Water	Blooming Grove (T)	Potable	X	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.

9.1.7. 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 9.1-4 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
<b>Mitigation Type: Prevention</b>											
TBG-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
TBG-2	Install and maintain a system of gauges and automatic level sensing devices on streams and lakes to provide for early warning of potential flooding in accordance with the County HMP 2011, the Moodna Creek Watershed Plan (2012), the Willow Brook Dam EAP, the Merriewold Dam EAP (2012), and the Town of Blooming Grove EMP	N/A	All Hazards	1-3 1-4 1-5 2-8 3-4 5-2	Hazard Mitigation Plan Coordinator, Watershed Planning Groups, County OEM, NYSDEC	Medium-High	Medium-High	FEMA Mitigation Grant Programs with local match	Long Term DOF	H	PR
TBG-3	Inventory Ownership and Management of Dams as called for in the Moodna Creek Watershed Plan. There is currently no coordinated system in place for managing the release of water from dams. A cooperative and coordinated approach is needed to manage water control structures at dams to ensure that detrimental downstream impacts, such as flooding and erosion, are minimized or eliminated.	N/A	All Hazards	1-4 1-6 3-1 5-2	Hazard Mitigation Plan Coordinator, Moodna Creek Watershed Inter-municipal Council, Orange County, NYSDEC	High	Low	FEMA Mitigation Grant Programs with local match	Long Term DOF	H	PR
TBG-4	Adopt regulations for undergrounding utilities in new developments.	N/A	Severe Storm	1-1 1-3	Municipal Council	Medium	Low	Municipal Budget	Short	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
				1-8 3-1							
TBG-5	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 TB-9 and TB-14 below.	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
TBG-6	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
TBG-7	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
TBG-8	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
TBG-9	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
TBG-10	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





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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
TBG-11	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 - Conduct a survey to delineate property lines and public property. - Inventory ownership and management of dams. - 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	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
TBG-12	Incorporate and enforce ordinances and/or zoning restrictions to control and mitigate future development in hazard areas, specifically as identified in Section 9.1.10.	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
TBG-13	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



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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
TBG-14	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
TBG-15	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
TBG-16	Regulate privately owned dams throughout the Town.	N/A	Flood, Severe Storm	1-6 1-7 2-4	Municipality with support from County, NYSDEP	Medium	Medium	Municipal Budget	Long Term	M	PR
TBG-17	Regulate private property stream maintenance throughout the Town.	N/A	Flood, Severe Storm	1-6 1-7 1-8 2-4 4-2	Municipality with support from County, NYSDEP	Medium	Medium	Municipal Budget	Long Term	M	PR
TBG-18	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
<b>Mitigation Type: Property Protection</b>											
TBG-19	Relocation of Town Maintenance Garage	Existing	All	1-1 3-5	Joint project with the Village of Washingtonville School District; support from County Planning,	High	High	FEMA Mitigation Grants	Long Term DOF	H	PP



**SECTION 9.1: TOWN OF BLOOMING GROVE**

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
					NYSOEM, FEMA						
TBG-20	Purchase or elevate private residence on Barnes Road in the Tappan Subdivision.	Existing	Flood	1-2	Property Owner, Municipality, and support from NYSOEM, FEMA	High	High	FEMA Mitigation Grants	Long Term DOF	H	PP
TBG-21	Purchase, relocate, or elevate structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss property as priority. 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 consideration include the private residence in the Tappan Subdivision, the Town Maintenance Garage, and the Tappan Water Plant facilities.	Existing	Flood, Severe Storm	1-1 1-2	Town of Blooming Grove (via Municipal Engineer/NFIP Floodplain Administrator) with support from County Planning, NYSOEM, FEMA	High	High	FEMA Mitigation Grants	Long Term DOF	H	PP
TBG-22	Salisbury Mills Fire Department stormwater retrofit: Install one-way valves in the floor drain pipes at the company headquarters at 2128 State Route 94 to prevent stormwater from backing up inside the firehouse through the drains and flooding the building.	Existing	Flood, Severe Storm	1-1 3-5	Salisbury Mills Fire Company	Medium	Low	FEMA Grants with local cost share	Short DOF	M	PP
TBG-23	Raise the existing stand-by generator at the Salisbury Mills Firehouse at 2128 State Route 94 to a height that would prevent it from being submersed in water in a flooding situation. As a	Existing	Flood, Severe Storm	1-1 3-5	Salisbury Mills Fire Company	Medium	Medium	FEMA Grants with local cost share	Short DOF	M	PP



**SECTION 9.1: TOWN OF BLOOMING GROVE**

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
	critical facility, the generator is an integral part of the Town's emergency services. In 2011 the generator was partially under water and suffered extensive damage.										
TBG-24	Develop a plan for flood-proofing the Salisbury Mills Firehouse at 2128 State Route 94. Possible solutions include installing waterproof/water sealing doors at all exits of the building, including overhead doors for the five truck bays. Also consider the purchase of portable berms that would be filled with water and installed around the entire building. The four foot high berm would conform to the terrain and prevent rising flood waters from accessing the inside of the fire house.	Existing	Flood, Severe Storm	1-1 3-5	Salisbury Mills Fire Company	Medium	Medium	FEMA Grants with local cost share	Short DOF	M	PP
<b>Mitigation Type: Public Education and Awareness</b>											
TBG-25	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
TBG-26	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)	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 9.1: TOWN OF BLOOMING GROVE**

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
	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.										
TBG-27	Conduct and facilitate educational outreach to owners of important water resources in cooperation with the Moodna Creek Watershed Plan. Outreach should target landowners whose property includes an important water resource, such as a stream or riparian area, large or otherwise significant wetland, a lake or pond, groundwater recharge area, or public wellhead protection area (especially sand and gravel wells). The need for restoration, mitigation, or conservation of these properties can then be assessed.	N/A	All Hazards	2-2 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
TBG-28	Create a committee comprised of residents, homeowner	N/A	Flood, Severe	1-2 2-2	Municipality with support from	Medium	Low	Municipal Budget,	Short Term	M	PE



**SECTION 9.1: TOWN OF BLOOMING GROVE**

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
	association, and municipal representatives to address stormwater problems in the Mountain Lodge area. Support committee meetings, education, and outreach for residents to promote and effect stormwater overflow risk reduction.		Storms	2-4 2-5	Planning Partners, County Planning, NYSOEM, FEMA			Private Funding			
TBG-29	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	Municipality with support from DPW, Village of Washingtonville	Medium	Low	Municipal Budget, Volunteer	Short	M	PE
TBG-30	Enhance the County/community 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	2-1 2-2	Municipality with support from County, NYSOEM and FEMA	Medium	Low	Municipal Budget	Short Term, DOF	M	PE
<b>Mitigation Type: Natural Resources Protection</b>											
TBG-31	Make drainage improvements on town roads, with priority to the following roads identified as	N/A	Flood	1-1 3-5 4-2	Municipality (via Municipal Engineer/NFIP	High	Medium	Municipal Budget, Transportation	Long Term OG DOF	H	NR



**SECTION 9.1: TOWN OF BLOOMING GROVE**

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
	"Vulnerable" by Town officials: Hulsetown Road Museum Village Road Goshen Road Station Road Farmingdale Road Prospect Road Bull Mine Road				Floodplain Administrator) with support from County Planning, NYSOEM			Improvement Districts			
TBG-32	Stormwater storage in Moodna Creek watershed. The Town and Villages are participating 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.	N/A	Flood	1-1 4-2	Municipality, USACE; support from County Planning, NYSOEM	High	Medium	Municipal Budget, HMA programs with local or county match	Long Term DOF	H	NR
TBG-33	Widening Satterly Creek. The Town and Villages are participating in an oversight committee to address Stormwater storage in the Moodna and widening of the Satterly Creek. At present there are ongoing discussions with the Moodna Creek Watershed Inter-municipal council science and data committee regarding potential locations for storage.	Both	Flood	1-1 4-2	Municipality with support from County Planning, NYSDEC, NYSOEM	High	Medium	Municipal Budget, HMA programs with local or county match	Long Term DOF	H	NR
TBG-34	Make drainage improvements in Mt. Lodge Park	N/A	Flood	1-1 4-2	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from County Planning, NYSOEM	Medium	Medium	Municipal Budget	Short	M	NR
TBG-35	Develop man made fire breaks that will act as barriers to slow or stop the progress of wildfires on Schunemunk Mountain.	N/A	Wildfire	1-2 3-2 4-4	Salisbury Mills Fire District	Medium	Medium	FEMA Grants with local cost share	Short DOF	M	NR



**SECTION 9.1: TOWN OF BLOOMING GROVE**

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
	Schunemunk Mountain is the highest mountain in Orange County. The 1,664 foot summit is located in the Town of Blooming Grove. The community of Mountain Lodge park is built up its western slope and lies within the Salisbury Mills Fire District. The primary goal of the fire breaks would be to remove deadwood and undergrowth down to soil. These actions would greatly reduce the ultimate size of wildfires therefore reducing the losses incurred due to wildfire damage.										
TBG-36	In consultation with NYDEC, 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	Town of Blooming Grove with the Village of Washingtonville (via Municipal Engineer/NFIP Floodplain Administrator)	Medium	Medium	Municipal Budget	Short DOF	M	NR
<b>Mitigation Type: Structural Projects</b>											
TBG-37	Replace Lake Road and Glenwood Road bridges. Contracts have been signed.	N/A	All	1-1 1-3	Town of Blooming Grove (via Municipal Engineer/NFIP Floodplain Administrator) with support from County Planning, NYSOEM	Medium	High	Municipal Budget, HMA programs with local or county match	Short	H	SP
TBG-38	Install levee along Mays Field Recreational Complex	Existing	Flood	1-1 1-3	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from County Planning, NYSDEC, NYSOEM	Medium	Medium	Municipal Budget	Short Term DOF	M	SP





**SECTION 9.1: TOWN OF BLOOMING GROVE**

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
TBG-39	Fasten propane tanks on Hallock Drive to ensure they are secure during flood events.	N/A	Flood	1-1	Property Owner and Municipality	Medium	Low	Municipal Budget	Short	L	SP
<b>Mitigation Type: Emergency Services</b>											
TBG-40	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	2-2 2-6	Municipality with support from County, NYSOEM and FEMA	High	Medium	Municipal Budget	Short	H	ES
TBG-41	Obtain and install backup power sources at critical facilities, including backup generators for water district facilities. The Town has procured a back-up generator for Water District #2, and is currently bonding for funds for back-up generator for Water District #3.  Also support the funding acquisition and installation of generators at Tomahawk Lake, and the Mountain Lodge Park community.	Existing	All	1-1 3-3 3-5	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short Term DOF	M	ES
TBG-42	Purchase of a "Utility Task Vehicle" or "UTV". This is a four wheel drive vehicle used for traversing mountain trails and areas of rough terrain that normal fire vehicles cannot travel. The UTV seats two riders and has a truck like bed for hauling rescue and fire-fighting materials and can also adapt to carry a victim out of a remote location in the rear bed. This will assist us in firefighting and rescue efforts within the mountainous terrain within our	N/A	All Hazards	3-2 3-3 3-6	Salisbury Mills Fire District	Medium	Medium	FEMA Grants with local cost share	Short DOF	M	ES



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
	fire protection area.										

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 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.
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.
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.

## 9.1.8. PRIORITIZATION OF MITIGATION INITIATIVES

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

Table 9.1-5 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)
<b>Mitigation Type: Prevention</b>							
TBG-1	3	H	L	Y	N	Y	High
TBG-2	6	H	M	Y	Y	-	High
TBG-3	4	H	L	Y	N	Y	High
TBG-4	4	M	L	Y	N	Y	Medium
TBG-5	4	M	L	Y	N	Y	Medium
TBG-6	3	M	L	Y	N	Y	Medium
TBG-7	3	M	L	Y	N	Y	Medium
TBG-8	2	M	L	Y	N	N	Medium
TBG-9	2	M	L	Y	N	Y	Medium
TBG-10	1	L	L	Y	N	Y	Medium
TBG-11	6	M	M	Y	N	Y	Medium
TBG-12	5	M	M	Y	N	Y	Medium
TBG-13	4	M	M	Y	Y	Y	Medium
TBG-14	3	M	M	Y	N	Y	Medium
TBG-15	2	M	M	Y	Y	Y	Medium
TBG-16	3	M	M	Y	N	-	Medium
TBG-17	5	M	M	Y	N	-	Medium
TBG-18	1	M	M	Y	N	Y	Low
<b>Mitigation Type: Property Protection</b>							
TBG-19	2	H	H	Y	Y	-	High
TBG-20	1	H	H	Y	Y	-	High
TBG-21	2	H	H	Y	Y	-	High
TBG-22	2	M	L	Y	Y	N	Medium
TBG-23	2	M	M	Y	Y	N	Medium
TBG-24	2	M	M	Y	Y	N	Medium
TBG-25	4	M	L	Y	Y	Y	Medium
TBG-26	4	M	M	Y	Y	Y	Medium
<b>Mitigation Type: Public Education and Awareness</b>							
TBG-27	3	M	M	Y	Y	Y	Medium
TBG-28	4	M	L	Y	N	Y	Medium
TBG-29	3	M	L	Y		Y	Medium

**SECTION 9.1: TOWN OF BLOOMING GROVE**

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)
TBG-30	2	M	L	Y	N	Y	Medium
<b>Mitigation Type: Natural Resources Protection</b>							
TBG-31	3	H	M	Y	N	-	High
TBG-32	2	H	M	Y	Y	-	High
TBG-33	2	H	M	Y	Y	-	High
TBG-34	2	M	M	Y	N	-	Medium
TBG-35	3	M	M	Y	Y	N	Medium
TBG-36	2	M	M	Y	N	-	Medium
<b>Mitigation Type: Structural Projects</b>							
TBG-37	2	H	H	N	N	-	High
TBG-38	2	M	M	Y	N	-	Medium
TBG-39	1	M	L	Y	N	-	Low
<b>Mitigation Type: Emergency Services</b>							
TBG-40	2	H	M	Y	Y	-	High
TBG-41	3	M	M	Y	Y	N	Medium
TBG-42	3	M	M	Y	Y	N	Medium

Notes:

H = High; M = Medium; L = Low; 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 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

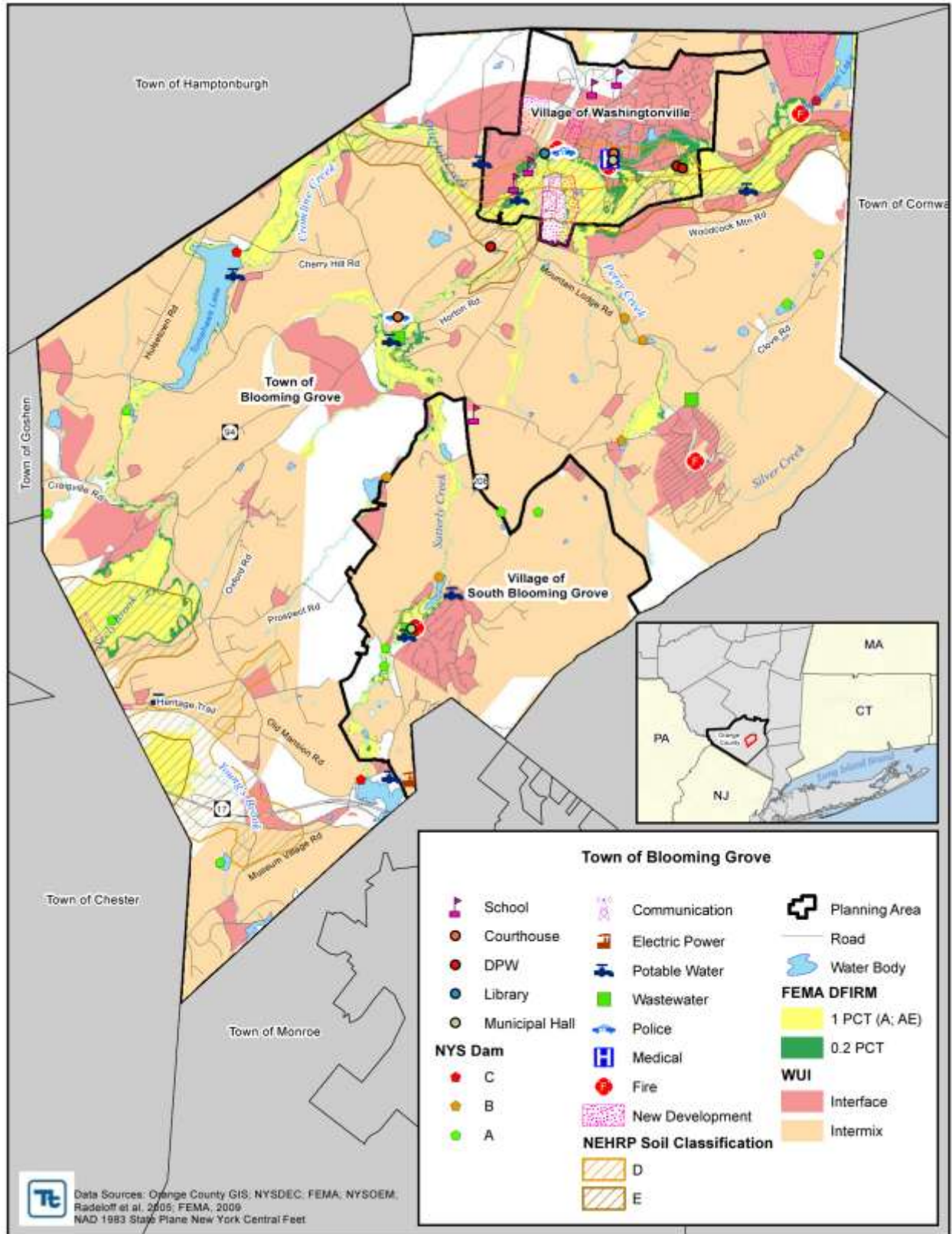
#### **9.1.9. FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY**

The Town of Blooming Grove has no additional risk vulnerabilities that need to be addressed at this time.

#### **9.1.10. HAZARD AREA EXTENT AND LOCATION**

A hazard area extent and location map illustrating the probable areas impacted within the Town of Blooming Grove 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 Town of Blooming Grove has significant exposure. The Planning Area maps are provided in the hazard profiles within Section 5.4, Volume I of this Plan.

**SECTION 9.1: TOWN OF BLOOMING GROVE**



**9.1.11. STATUS OF INCORPORATION OF MITIGATION PLANNING INTO EXISTING AND FUTURE PLANNING MECHANISMS**

It is the intention of the Town of Blooming Grove 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.

The Town’s Comprehensive/Master Plan was last updated in 2005. The Hazard Mitigation Plan will be incorporated in the next update. The Town’s planning Board considers potential hazards during their review of projects, particularly in regards to stormwater control. The Town is NYSDEC regulated MS 4 Stormwater facility.

<b>Status of Incorporation of Mitigation Planning into Existing and Future Planning Mechanisms</b>		
<b>Planning Mechanisms</b>	<b>Has Been Utilized</b>	<b>Will Be Utilized</b>
<b>Operating Budget</b> 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
<b>Capital Improvement Budget</b> 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
<b>Human Resource Manual</b> Employee job descriptions may contain hazard mitigation actions.		X
<b>Building and Zoning Ordinances</b> 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	
<b>Comprehensive Land Use Plan</b> 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
<b>Grant Applications</b> Data and maps will be used as supporting documentation in grant applications.		X
<b>Municipal Ordinances</b> When updating municipal ordinances, hazard mitigation will be a priority.		X
<b>Fire Plan</b> The Hazard Mitigation Plan will be used as a resource for the development of future Fire Plans.		X
<b>Capital Improvement Planning</b> 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
<b>Day-to-Day Operations</b> The municipality will incorporate hazard mitigation actions in daily operations and all projects.		X
<b>Local School Service Projects</b> 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
<b>Municipal Budget</b> Adopted annually, the municipality will look at mitigation actions when allocating funding.		X





## SECTION 9.1: TOWN OF BLOOMING GROVE

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

### **9.1.12. NFIP ADMINISTRATION INPUT**

#### **Insurance Summary**

- As of April 30, 2013, there are 91 policies in force, with a total coverage of \$20,124,300. The written premium per policy is \$97,095/yr.
- As of April 30, 2013, 156 claims have been paid totaling \$1,989,100.95.
- There are 5 Repetitive Loss Properties and 3 Severe Repetitive Loss Properties within the Town.

#### **Staff Resources**

- Jim Farr P.E, Town Engineer

#### **Regulation**

- The Town entered NFIP on November 15, 1985. The initial FIRM was identified in November 15, 1985, and current FIRM became effective August 3, 2009.

#### **Compliance History**

- The Town of Blooming Grove is in good standing, with no current compliance issues identified.

#### **Community Rating System**

- The Town of Blooming Grove does not participate in CRS.

### **9.1.13. ADDITIONAL COMMENTS**

There are no additional comments at this time.