

**9.5 TOWN OF BRUTUS**

This section presents the jurisdictional annex for the Town of Brutus.

**A.) HAZARD MITIGATION PLAN POINT OF CONTACT**

Primary Point of Contact	Alternate Point of Contact
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**B.) PROFILE**

**Population**

According to the 2010 U.S. Census, the estimated Town of Brutus population was 4,464. The Town of Brutus is one of the 23 towns in Cayuga County.

**Location**

The Town of Brutus is located in central Cayuga County, sharing its eastern border with Onondaga County. It is bordered by the Cayuga County towns of Sennett to the south, Throop to the southwest, Mentz to the west, and Cato to the north. The town is also bordered on the north by the Seneca River and New York State Barge Canal.

**Brief History**

The land now forming the Town of Brutus was first designated by European-American settlers as part of the Central New York Military Tract for veterans of the Revolutionary War. The first settlements in Brutus were made around 1795, later incorporated into the Town of Aurelius. The Town of Brutus was formally established 1802 (Hopkins, 1933).

**Governing Body Format**

Home rule is strong in New York State and thus, each town and village has its own governing body. Towns are made up of a Town Board and Supervisor. Along with town and village roads, any public water and sewer systems are operated by the local municipality, though they may cooperate with County departments. Each municipality has charge over its own planning and zoning and uses the County personnel as a resource (Cayuga County, 2010).

**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 municipality. Refer to the map in section I.) of this annex which illustrates the hazard areas along with the location of potential new development.

<b>New Development/Potential Development in Municipality</b>			
<b>Property Name</b>	<b>Type (Residential or Commercial)</b>	<b>Number of Structures</b>	<b>Description/Status</b>
Town of Brutus Water Districts	Commercial	85 Units	Water districts 2, 3, 4, 7, and 8
Water District #9	Commercial	35 Units	Planning stages

Note: Please refer to Section I for new development location information.

## C.) NATURAL HAZARD EVENT HISTORY

Cayuga County has a history of natural hazard events as detailed in Volume I, Section 5 of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events affecting the County and its municipalities. Below is presented a summary of historical events to indicate the range and impact of natural hazard events in the county. Specific damages have been indicated if available from reference or local sources.

Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
Flood in Moravia			6/1/1905	Severely damaged Moravia business district
Steamship Frontenac fire south of Union Springs			6/27/1907	8 deaths
Severe Flooding along Cayuga Lake			4/1916	
Spanish Influenza			1918 — 1919	nearly 100 deaths in Cayuga County
Riots at Auburn Prison			1929	11 deaths, 3 firefighters injured
Hislops fire in Auburn			12/1931	Destroyed a block of downtown, 1 firefighter killed
Floods in Moravia & Locke			7/1/1935	Floods in Moravia & Locke
Gasoline leak & explosion in Auburn			3/30/1960	Killed 5 including 3 firefighters
Gasoline spill in Auburn			9/ 1960	17,000 gallon gasoline spill at Drake Oil
Gasoline spill			5/1966	8,500 gallon gasoline spill at Sinclair bulk terminal in Auburn
Dutch Elm			1960's	Disease kills thousands of trees in City and Villages
Tropical Storm Agnes	DR-338	Y – IA, PA	6/1972	Auburn's Mill Street dam washed out, Owasco Lake dam weakened, Cayuga Lake rises 1.25 feet higher than 1916 level
High Winds/Wave Action/Flooding	DR-367	Yes - IA, PA	3/21/1973	
Gasoline tanker			4/10/1975	Crashed in Locke, fire destroys 11 buildings
Hurricane Eloise /Severe Storm, Heavy Rain, Landslide/Flooding	DR-487	Yes - IA, PA	9/1975	Caused severe damage in Moravia and Locke
10,000 gallon gasoline spill at Agway in Auburn			9/11/1977	
Ice Jam in Port Byron			2/1979	Evacuated homes and closes

**SECTION 9.5: TOWN OF BRUTUS**

Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
				schools
Flooding in Moravia and Locke			10/1981	"worse than Agnes or Eloise"
Radiation incident at Austeel (dental scrap)			1980's	
Blizzard followed by lake and river flooding in April	EM-3107	Yes - PA	3/17/1993	Blizzard followed by lake and river flooding in April. Bonta Bridge Road flooded, and Devaneys was sand banked. Other roads were closed due to flooding.
Dunn & McCarthy fire in Auburn.			11/1993	
Ice jam flooding in Port Byron			1/ 1994	Evacuated homes and closes schools.
County-wide flooding	DR-1095	Yes - IA, PA	1/19/1996	1 death (MVA).
Street flooding in Moravia and Locke	DR-1148	No	11/1996	
Tornado(s) in Niles and Moravia	DR-1222 DR-1233	No	Summer 1998	
Labor Day storm.	DR-1244	Yes - IA, PA	9/1998	One house was lost, and numerous homes were without power for 10 days. Utility outages occurred, and roads were closed during road and tree clean-up. The jurisdiction incurred losses due to overtime pay for emergency services personnel.
USDA declared Drought (t40329).			8/1999	
Road flooding in King Ferry		No	6/2000	
Flood			5/2002	Road flooding in Union Springs and Meridian.
Landslide along Seneca River near Cross Lake in Town of Cato.			2/2003	
Ice storm	DR-1467	Yes - IA, PA	4/2003	Road clean-up and removal of tree damages was needed. Utility outages occurred, and roads were closed during road and tree clean-up. The jurisdiction incurred losses due to overtime pay for emergency services personnel. There were 3 deaths in Cayuga County.
NE blackout.	EM-3186	Yes - PA	8/23/2003	
Snow emergency	EM-3195	Yes - PA	1/2004	

**SECTION 9.5: TOWN OF BRUTUS**

Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
declared				
Flooding triggered by snow melt and rain.	DR-1589	Yes - PA	4/2005	
Severe Storms and Flooding	DR 1650	No	June 26 2006 — July 1, 2006	
Severe Storms and Flooding	DR 1670	No	November 16-17, 2006	
April Nor'easter	DR 1692	No	April 18, 2007	
Severe Storms and Flooding	DR 1710	No	June 19, 2007	
Severe Storms and Flooding	DR 1857	No	August 9, 2009	
Severe Storms and Flooding	DR 1993	No	April 26, 2011— May 8, 2011	
Severe Storms and Flooding	EM 3328	No	August 26, 2011	
Hurricane Irene	DR 4020	No	August 26, 2011— September 5, 2011	
Severe Storms, Flooding, Tornadoes, and Straightline Winds	EM 3341	No	September 7-8, 2011	
Remnants of Tropical Storm lee	DR 4031	No	September 7-11, 2011	
Ice Blockage at Towpath/Route 31 Bridge	N/A	No	Winter 2013	

Note: N/A = Not applicable

D.) NATURAL HAZARD RISK/VULNERABILITY RISK RANKING

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard <sup>a, c</sup>	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking <sup>b</sup>
Flood	1% Annual Chance: \$1,905,030 0.2% Annual Chance: \$2,176,840	Frequent	21	Medium
Severe Storm	100-Year MRP: \$0 500-Year MRP: \$2,624 Annualized Loss: \$118	Frequent	18	Medium
Severe Winter Storm	1% of GBS: \$863,759 5% of GBS: \$4,318,797	Frequent	48	High
Transportation	Not available	Frequent	21	Medium
Ground Failure	Karst Exposure \$0 Moderate Incidence \$0 Moderate * Susceptibility	Rare	6	Low

- a. Building damage ratio estimates based on FEMA 386-2 (August 2001)
- b. High = Total hazard priority risk ranking score of 30 and above  
Medium = Total hazard priority risk ranking of 15-29  
Low = Total hazard risk ranking below 15
- c. The valuation of general building stock and loss estimates was based on custom inventory for Cayuga County.
- d. Loss estimates for the severe storm and severe winter storm hazards are structural values only and do not include the value of contents.
- e. Loss estimates for the flood hazard represents both structure and contents.

**E.) CAPABILITY ASSESSMENT**

This section identifies the following capabilities of the local jurisdiction:

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

The town indicates that it has moderate planning, regulatory, administrative, technical, fiscal, community resiliency, and community political capability; with a very willing political capability amongst its Town Board and Planning Board to enact policies or programs to reduce hazard vulnerabilities in the community.

## E.1) 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	Local Code Enforcement Officer	Section 65; Feb 2007
2) Zoning Ordinance	Y	Local; Zoning Board of Appeals; Code Enforcement Officer	Section 125; March 1987
3) Subdivision Ordinance	Y	Local Planning Board (joint with the Village of Weedsport)	Section 108; September 1985
4) NFIP Flood Damage Prevention Ordinance	Y	Local Engineer	Section 69; Oct 2008
4a) Cumulative Substantial Damages	N		
4b) Freeboard	Y	Local	
5) Growth Management	Y	Local Town Board	
6) Floodplain Management / Basin Plan	N		
7) Stormwater Management Plan/Ordinance	Only for subdivisions	Local Planning Board	Section 10-16 Ch. 2; Feb 2008
8) Comprehensive Plan / Master Plan/ General Plan	Y	Local	Joint Comprehensive plain with Village of Weedsport is in progress and anticipated in 2014
9) Capital Improvements Plan	N		
10) Site Plan Review Requirements	Y	Local Code Enforcement Officer (Planning board handles if subdivision or Zoning Board of Appeals if variance)	Section 65; Feb 2007
11) Open Space Plan	N		
12) Stream Corridor Management Plan	Y	Local or Watershed	Overseen by USACE for Cold Spring Brook only
13) Watershed Management or Protection Plan	N		
14) Economic Development Plan	N		
15) Comprehensive Emergency Management Plan	N		



**SECTION 9.5: TOWN OF BRUTUS**

Regulatory Tools (Codes, Ordinances., Plans)	Do you have this? (Y or N)	Enforcement Authority	Code Citation (Section, Paragraph, Page Number, Date of adoption)
16) Emergency Response Plan	Y	Local or County	2006
17) Post Disaster Recovery Plan	N		
18) Post Disaster Recovery Ordinance	N		
19) Real Estate Disclosure Requirement	Y		State Requirement
20) Other [Special Purpose Ordinances (i.e., critical or sensitive areas)]	N		

**E.2) Administrative and Technical Capability**

<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	N	Designated Town Engineer
2) Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	N	Designated Town Engineer
3) Planners or engineers with an understanding of natural hazards	N	Designated Town Engineer
4) NFIP Floodplain Administrator	Y	Designated Town Engineer
5) Surveyor(s)	N	
6) Personnel skilled or trained in "GIS" applications	N	Utilize Cayuga County Planning if available
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	N	

**E.3) Fiscal Capability**

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

**E.4) Community Classifications**

<b>Program</b>	<b>Classification</b>	<b>Date Classified</b>
Community Rating System (CRS)	NP	
Building Code Effectiveness Grading Schedule (BCEGS)		
Public Protection		
Storm Ready	NP	
Firewise	NP	

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

The classifications listed above relate to the community’s effectiveness in providing services that may impact it’s 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 one (1) being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO’s Public Protection website at <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/>

**F. MITIGATION STRATEGY**

**F.1) Past Mitigation Actions/Status**

The jurisdiction has indicated that no mitigation actions have been incorporated into its planning and land use mechanisms.

**F.2) Hazard Vulnerabilities Identified**

- Flooding in multiple locations including: Jericho Road, Cold Springs Brook, Seneca River, Putnam Creek, Pump Road, Dunn Road, and Riverforest Road.
- Sinkhole formation on Pump Road.
- Ice Blockage on Putnam Brook at Towpath, Route 31 Bridge, and Dunn Road. (Dry hydrant clogged, need adjustment)

Any community that does not have electricity for more than 3 days would have a problem. Currently, the Highway Department, Fire Department and Police Department obtain their fuel from the Weedsport Bus

Garage. The Bus Garage does not have a generator. Therefore, if there was no electricity to the Bus Garage emergency personnel and the highway department would not be able to obtain fuel to run their equipment. The Municipal Building does not have generators either. The Highway Garage has one for emergency power, but does not have the capabilities to operate the fuel pumps for equipment. Both of these buildings are emergency operation centers and would be useless without power.

**NFIP Summary**

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Boundary (3)	# Policies in 500-Boundary (3)	# Policies Outside the 500-year Flood Hazard (3)
Brutus (T)	15	8	\$31,355	0	0	11	0	4

Source:

- (1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA Region 2, in June 2012 using the "Comm\_Name". These statistics are current as of June, 2012. Please note the total number of repetitive loss properties includes the severe repetitive loss properties.
- (2) Total building and content losses from the claims file provided by FEMA Region 2 (current as of June, 2012).
- (3) The policy locations used are based on the latitude and longitude provided by FEMA Region 2.

It is estimated that in the Town of Brutus, 149 residents live within the 1% annual chance flood area (NFIP Special Flood Hazard Area). Of the municipality's total land area, 19.6% is located within the 1% annual chance flood area. \$11,307,693 (8.2%) of the municipality's general building stock replacement cost value (structure and contents) is located within the 1% annual chance flood area. There are 15 NFIP policies in the community and there are 11 policies located within the 1% annual chance flood area. FEMA has identified 0 Repetitive Loss (RL) including 0 Severe Repetitive Loss (SRL) properties in the municipality.

HAZUS-MH estimates that for a 1% annual chance flood, \$1,905,030 (1.4%) of the municipality's general building stock replacement cost value (structure and contents) will be damaged and 832 tons of debris could be generated. HAZUS-MH estimates the following damage and loss of use to critical facilities in the community as a result of a 1% annual chance flood event:

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

Name	Municipality	Type	Exposure		Potential Loss from 1% Flood Event (2)	Potential Loss from 0.2% Flood Event (2)
			1% Zone	0.2% Zone		
Town of Brutus Highway Department	Brutus (T)	Highway Department		X		

Source: HAZUS-MH 2.1

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

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. The flood model does not estimate damages for HAZMAT facilities.

Please refer to the Hazard Profiles for additional vulnerability information relevant to this jurisdiction.



## F.3) PROPOSED HAZARD MITIGATION INITIATIVES

Note some of the identified mitigation initiatives in Table F 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.

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
BT-1	Identify the cause of ice blockages occurring on Putnam Brook Road and develop a plan to mitigate.	N/A	Flood	1-4 1-5	Town of Brutus; Cayuga County	Medium	Low	NYS Grant opportunities, Municipal Budget	Long Term DOF	Medium	PP
BT-2	Obtain and install emergency generators for the Weedsport Bus Garage, the Town Highway Garage, and the Municipal Building.	Existing	All	1-1 3-3	Town of Brutus, Village of Weedsport, Weedsport Fire Department	Ability to respond to emergencies	Med	HMGP, Homeland Security Grants	One year	High	ES
BT-3	Procure and install a notification system and protocol for communities along the canal system for water rise.	Existing	Flood	1-9 2-2	Canal Corporation	Medium	Low	Homeland Security Grants	Short	Medium	PE
BT-4	Procure and install backup generators at the elementary and high schools if used as an evacuation site.	Existing	All	1-1 3-3	Town of Brutus; Village of Weedsport; Weedsport Central School District	Medium	Medium	Municipal Budget	Short	High	ES
BT-5	Develop a comprehensive beaver management plan along flood prone streams and marshes in the town.	Both	Flood	1-5 1-6	Municipality with support from County and NYSDEC.	Medium	Low	Municipal Budget	Short	High	NR
BT-6	Develop a debris control plan for all protected and unprotected streams in the county and work with County agencies, towns, villages and landowners to implement.	Both	Flood	1-5 1-6	County, municipality	High	Low	County, Grants, Municipal Budget	Short	High	NR
BT-7	Joint Initiative with the Village of Weedsport: Tree removal and other clearing, especially in the floodway of Cold Springs Brook. Starting at the Railroad property then going	Both	Flood	1-5 1-6	Brutus and Weedsport; County	Medium to High	Medium	Municipal Budget, Grants	Short	High	NR

**SECTION 9.5: TOWN OF BRUTUS**

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
	upstream about 500-1000-1500 feet above the senior care facility. This reduces flood risk to two critical facilities (treatment plant and senior care facility).										
BT-8	<p>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:</p> <ul style="list-style-type: none"> <li><input type="checkbox"/> Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages.</li> <li><input type="checkbox"/> 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.</li> <li><input type="checkbox"/> 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.</li> <li>• Work with neighborhood associations, civic and business groups to disseminate information on flood insurance and</li> </ul>	N/A	All Hazards	2-1 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	High	PE



**SECTION 9.5: TOWN OF BRUTUS**

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
	the availability of mitigation grant funding.										
BT-9	Incorporate ordinances and/or zoning restrictions to control and mitigate future development in hazard areas, specifically as identified in Section I.	N/A	All Hazards	1-6 4-3	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	PR
BT-10	Improve communication systems.	N/A	All Hazards	3-3 3-7	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	ES PR
BT-11	Develop programs/procedures to capture and archive loss data from events. Examples include: <ul style="list-style-type: none"> <li>Record location and length of roadway closures;</li> <li>Develop a database of residential and commercial property damage, including permit history for such repairs;</li> <li>High water marks, perhaps painting phone poles with high water marks and or regulatory Base Flood Elevations (BFEs).</li> </ul>	N/A	All Hazards	1-3 1-4	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	PR
BT-12	Obtain and install backup power sources at critical facilities.	N/A	All Hazards	3-3 3-5	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	ES
BT-13	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 efforts.	N/A	All Hazards	1-1 1-3 1-4	Hazard Mitigation Plan Coordinator	Medium-High	Medium-High	FEMA Mitigation Grant Programs with local match	Long Term DOF	Medium	PR



**SECTION 9.5: TOWN OF BRUTUS**

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
BT-14	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	High	PR
BT-15	Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations	N/A	All Hazards	3-2 3-5 3-6 3-7	Municipality with support from County, NYSOEM, FEMA and surrounding communities	Medium	Low	Municipal Budget	Short Term	High	PR, ES
BT-16	Identify and develop agreements with entities that can provide support with FEMA/SOEM paperwork after disasters; qualified damage assessment personnel – Improve post-disaster capabilities – damage assessment; FEMA/SOEM paperwork compilation, submissions, record-keeping	N/A	All Hazards	3-7	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short Term	Medium	PR, ES
BT-17	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).	N/A	All Hazards	3-6 3-7	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget, FEMA HMA and HLS grant programs	Short-Long Term DOF	Medium	PR
BT-18	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0	New and Existing	All Hazards	3-1 3-5	Municipality with support from Planning Partners, County Planning, NYSOEM, FEMA	High	Low – High (for 5 year update)	Municipal Budget, FEMA planning grants	On-going	High	PR
BT-19	Purchase, relocate, or elevate structures located in hazard-prone areas to protect structures from future damage, with repetitive loss	Existing	Flood, Severe Storm	1-2 4-2	Municipality (via Municipal Engineer/NFIP Floodplain Administrator)	High	High	FEMA Mitigation Grants	Long Term DOF	Medium	PP





**SECTION 9.5: TOWN OF BRUTUS**

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	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				with support from County Planning, NYSOEM, FEMA						
BT-20	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 below.	N/A	Flood, Severe Storm	1-4 1-6 1-7 4-3	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from NYSOEM, FEMA	High	Low-Medium	Municipal Budget	Ongoing	High	PR, PE
BT-21	Obtain and archive elevation certificates	N/A	Flood, Severe Storm	1-4 1-6	NFIP Floodplain Administrator	Medium	Low	Municipal Budget	On-going	High	PR
BT-22	Promote the participation of Floodplain Administrators within the planning process and other activities.	N/A	Flood	1-4 1-7	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	PR
BT-23	Provide public education and outreach on proper installation and/or use of backup power	N/A	Severe Storm	2-1 2-2	Municipal Clerk	Medium	Low	Municipal Budget	Short	H	PR
BT-24	Implement, review, and	N/A	Severe Storm	1-6	Municipal Code	Medium	Low	Municipal	Short	H	PR



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
	enforce municipal policies and programs to prevent trees from threatening lives and impacting power availability/interruption.			4-3	Enforcement			Budget			

Notes:

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

**Acronyms and Abbreviations:**

- ARC American Red Cross
- 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
- SWCD Cayuga County Soil and Water Conservation District
- 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:**

PDM = Pre-Disaster Mitigation Grant Program

FMA = Flood Mitigation Assistance Grant Program

RFC = Repetitive Flood Claims Grant Program

SRL = Severe Repetitive Loss Grant Program

HMGP = Hazard Mitigation 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 of these are acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
2. PP= Property Protection: These actions also 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 planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
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 school-age and adult education programs.
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.

## G.) 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)
BT-1	2	M	L	Y	Y	N	M
BT-2	2	M	M	Y	Y	N	H
BT-3	2	M	L	Y	Y	N	M
BT-4	2	M	M	Y	N	Y	H
BT-5	2	M	L	Y	N	Y	M
BT-6	2	H	L	Y	N	Y	M
BT-7	2	M-H	M	Y	Y	Y	H
BT-8	5	M	M	Y	Y	N	H
BT-9	2	M	M	Y	Y	Y	M
BT-10	2	M	M	Y	Y	Y	M
BT-11	2	M	M	Y	Y	Y	M
BT-12	2	M	M	Y	Y	Y	M
BT-13	3	M	M	Y	Y	N	M
BT-14	1	L	L	Y	N	Y	H
BT-15	4	M	L	Y	N	Y	H
BT-16	1	M	M	Y	N	Y	M
BT-17	2	M	M	Y	Y	N	M
BT-18	2	H	L	Y	Y	N	H
BT-19	2	H	H	Y	Y	N	M
BT-20	4	H	L	Y	N	Y	H
BT-21	2	M	L	Y	N	Y	H
BT-22	2	M	M	Y	N	Y	M
BT-23	2	M	L	Y	N	Y	H
BT-24	2	M	L	Y	N	Y	H

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

**Explanation of Priorities**

High Priority = A project that meets multiple objectives (i.e., multiple hazards), benefits exceeds cost, has funding secured or is an on-going project and project meets eligibility requirements for the Hazard Mitigation Grant Program (HMGP) or Pre-Disaster Mitigation Grant Program (PDM) programs. High priority projects can be completed in the short term (1 to 5 years).

Medium Priority = A project that meets goals and objectives, benefits exceeds costs, funding has not been secured but project is grant eligible under, HMGP, PDM or other grant programs. Project 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 = Any project that will mitigate the risk of a hazard, benefits do not exceed the costs or are difficult to quantify, funding has not been secured and project is not eligible for HMGP or PDM grant funding, and time line 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.

Prioritization of initiatives was based on above definitions: Yes

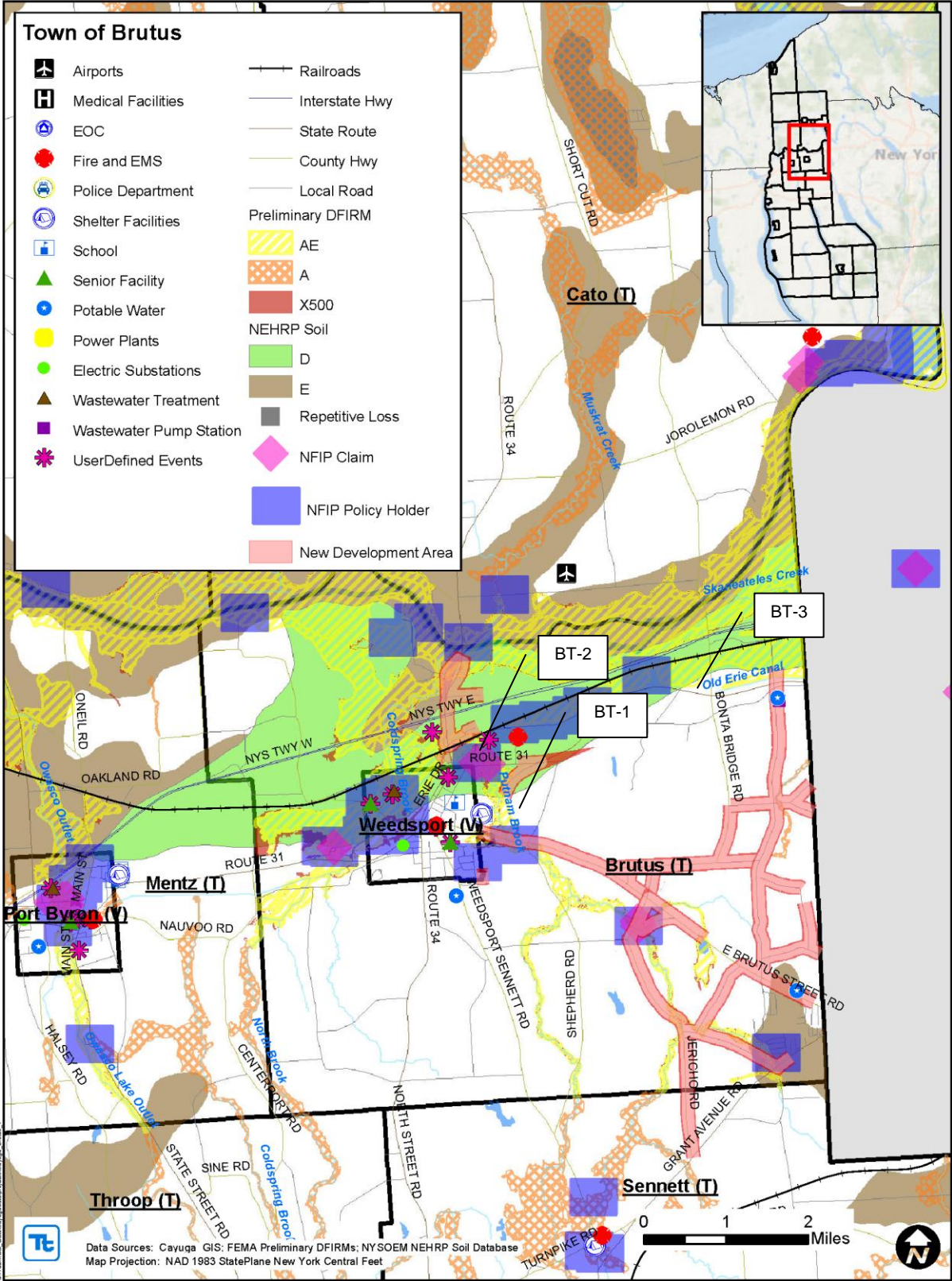
Prioritization of initiatives was based on parameters other than stated above: Not applicable.

**H.) FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY**

No information at this time.

**I.) HAZARD AREA EXTENT AND LOCATION**

A hazard area extent and location map has been generated for the jurisdiction to illustrate the probable areas impacted within the municipality and is provided on the next page. This map is based on the best available data 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 jurisdiction has significant exposure. The Planning Area maps are provided in the hazard profiles within Section 5.4, Volume I of this Plan.



**J.) ADDITIONAL COMMENTS**

No additional comments at this time.

**K.) NFIP ADMINISTRATOR INPUT****1. Planning and Regulatory**

The Town of Brutus joined the NFIP on April 16, 1979, and is currently an active member of the NFIP. Current Flood Insurance Rate Maps have been in effect for the community since August 2, 2007. The Town of Brutus is proactive in floodplain management with ordinances meeting minimum requirements.

Town of Brutus has not completed Community Assistance Visits. As of December 2012 there is no need for a CAV. Town of Brutus has no outstanding compliance issues.

**2. Administrative and Technical Staff**

The Town of Brutus has identified personnel to manage and uphold the Town of Brutus's compliance with the NFIP. Dedicated staff include: Timothy Ganey, Codes Enforcement Officer and Thomas Piascik, P.E. Floodplain Manager. Staff members complete numerous tasks in order for Town of Brutus to be in compliance of NFIP standards. Tasks include FIRM Map reviews, code compliance reviews, permit reviews and building inspections.

**3. Financial**

As of August 8, 2007 there 11 policies enforced within the Town of Brutus. Of the 11 insurance policies, 11 are within the Special Flood Hazard Area (SFHA), and 0 are located outside the SFHA. Repetitive loss insurance claims have not been reported in the Town of Brutus. As of July 8, 2013 there have been 0 repetitive loss properties and 0 severe repetitive loss properties within the Town of Brutus.

**4. Educational**

Town of Brutus does not conduct regular educational and/or outreach activities related to the NFIP. Activities include discussing flood damage prevention associated with new building construction, flood safe building practices and availability of flood insurance with property owners located within the Town of Brutus,

**5. Actions to Strengthen the Program**

Town of Brutus has taken numerous steps to strengthen the NFIP program and its administration. Actions include adopting the Flood Damage Prevention Ordinance, Local Law No 1-2007 on April 9, 2007 to meet the requirements of the NFIP program