

**9.12 TOWN OF GENOA**

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

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

Primary Point of Contact	Alternate Point of Contact
<p>Name: <a href="#">Lorie Sellen-Gross, Supervisor</a>                      Address: <a href="#">1687 Atwater Rd., King Ferry, NY 13081</a>                      Phone Number: <a href="#">315-364-7733</a>                      Fax Number: <a href="#">315-364-8090</a>                      Email address: <a href="mailto:genoasupervisor@gmail.com">genoasupervisor@gmail.com</a></p>	<p>Name: <a href="#">Cheryl Shields, Deputy Supervisor</a>                      Address: <a href="#">PO Box 243, Genoa NY 13071</a>                      Phone Number: <a href="#">315-497-2914</a>                      Fax Number: <a href="#">315-364-8090</a>                      Email address: <a href="mailto:genoaboard@gmail.com">genoaboard@gmail.com</a></p>

**B.) PROFILE**

**Population**

According to the 2010 U.S. Census, the estimated Town of Genoa population was 1,935. The Town of Genoa is one of the 23 towns in Cayuga County.

**Location**

The Town of Genoa is located in southwest corner of Cayuga County along the border of Tomkins County. It is bordered to the northwest by the town of Ledyard, the northeast by the town of Venice, and to the east by the town of Locke.

**Brief History**

Like many other Cayuga County towns and villages, Genoa was part of the Central New York Military Tract. The first settlers arrived in 1791 to the land, which was then a part of Onondaga County, and they named their town Milton. In 1808 the town was given its present name of Genoa (Town of Genoa, 2012).

**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.

New Development/Potential Development in Municipality				
Property Name	Type (Residential or Commercial)	Number of Structures	Address	Known Hazard Zone
Genoa Grain LLC	Commercial	2	Rte. 34 Genoa	No
Ethanol Plant	Commercial	1	Genoa/Venice Town line	No

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 Disease			1960's	Kills thousands of trees in City and Villages

**SECTION 9.12: TOWN OF GENOA**

Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
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 crash			4/10/1975	Resulting fire destroys 11 buildings in Locke
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 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
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	
USDA declared Drought (t40329).			8/1999	Genoa issues Emergency water restrictions. Other problems addressed by hauling clay and dirt to build a berm protecting water treatment plant. Actions were taken to prevent further infrastructure damage.
Road flooding in King Ferry		No	6/2000	(Fed. Declared disaster elsewhere).
Flood			5/2002	Road flooding in Union Springs and Meridian.
Landslide along Seneca River near Cross Lake in Town			2/2003	



**SECTION 9.12: TOWN OF GENOA**

Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
of Cato.				
Ice storm	DR-1467	Yes - IA, PA	4/2003	3 deaths in Cayuga County.
NE blackout.	EM-3186	Yes - PA	8/23/2003	
Snow emergency declared	EM-3195	Yes - PA	1/2004	Heavy snowfall on existing significant snowpack, in addition to 20-40 mph winds, created transportation congestion in the Town.
Rain/Flooding	DR-1589	Yes - PA	4/2005	Flooding triggered by snow melt and rain. Washed spots occurred in Hill Rd, Blakely Road, Creek Rd, and gravel bars occurred at bridges in town.
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 Ilee	DR 4031	No	September 7-11, 2011	

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: \$156,769 0.2% Annual Chance: \$286,969	Frequent	21	Medium
Severe Storm	100-Year MRP: \$0 500-Year MRP: \$738 Annualized Loss: \$214	Frequent	18	Medium
Severe Winter Storm	1% of GBS: \$977,723 5% of GBS: \$4,888,616	Frequent	48	High
Transportation	Not available	Rare	6	Low
Ground Failure	Karst Exposure \$45,086,857 Moderate Incidence \$0 Moderate Susceptibility \$0	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 limited planning, regulatory, administrative, technical, and fiscal capabilities; moderate community resiliency, and community political capability; and a moderately willing political capability 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 Codes Department	1/1/1984
2) Zoning Ordinance	Y	Local Codes Department	1/1/1984
3) Subdivision Ordinance	N		
4) NFIP Flood Damage Prevention Ordinance	N		
4a) Cumulative Substantial Damages	N		
4b) Freeboard	N		
5) Growth Management	N		
6) Floodplain Management / Basin Plan	N		
7) Stormwater Management Plan/Ordinance	Y	Local	4/27/2011
8) Comprehensive Plan / Master Plan/ General Plan	N		
9) Capital Improvements Plan	N		
10) Site Plan Review Requirements	N		
11) Open Space Plan	N		
12) Stream Corridor Management Plan	N		
13) Watershed Management or Protection Plan	N		
14) Economic Development Plan	N		
15) Comprehensive Emergency Management Plan	N		
16) Emergency Response Plan	Y	Fire and Highway Departments	2007
17) Post Disaster Recovery Plan	N		
18) Post Disaster Recovery Ordinance	N		
19) Real Estate Disclosure Requirement	Y	State	State Requirement
20) Other [Special Purpose Ordinances (i.e., critical or sensitive areas)]	N		

## E.2) Administrative and Technical Capability

Staff/ Personnel Resources	Available (Y or N)	Department/ Agency/ Position
1) Planner(s) or Engineer(s) with knowledge of land development and land management practices	N	
2) Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	N	
3) Planners or engineers with an understanding of natural hazards	N	
4) NFIP Floodplain Administrator	N	
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	N	

## E.3) Fiscal Capability

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

#### E.4) Community Classifications

Program	Classification	Date Classified
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 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 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 town has completed the following projects and/or incorporated the following actions into its planning and land use mechanisms:

- Built a berm at water treatment plant/pump house in 1999 to prevent damage to structure and equipment.
- The current bridge sight at Creek Road is being monitored for scour and erosion in advance of a full bridge replacement project.

**F.2) Hazard Vulnerabilities Identified**

The Town identified Salmon Creek as a hazard problem area in the community. Salmon Creek runs through the township, with creek bank erosion occurring in certain points and areas.

The Cayuga County Soil and Water Conservation District (SWCD) has identified the following vulnerabilities for the Town of Genoa, and has proposed hazard mitigation initiatives corresponding to these vulnerabilities, as shown in Section F.3 of this annex:

- Cayuga Lake is a major Finger Lake located partially within Cayuga County. Land use in the area includes residential areas and agriculture. Erosion on the lakeshore has been of concern in the past. In the event of a major storm, water levels could rise above normal stages and threaten lakeshore properties and homes. Recreation areas, steep slopes and certain beaches on parts of the lake may require stabilization. Areas along the lakeshore are also prone to flooding and damage resulting from ice jams where tributaries enter the lake. Unnamed and named watercourses, including Paines Creek, Great Gully Creek and others, contribute a large volume of sediment to the lake as a result of bank erosion. The Cayuga County SWCD has worked on many such projects on the lake in the past.
- Big Salmon Creek, Little Salmon Creek and their tributaries have been evaluated for flooding and erosion concerns. Streambank erosion and woody debris have been identified as primary concerns along the stretch.

## NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Polices in 100-year Boundary (3)	# Polices in 500-Boundary (3)	# Policies Outside the 500-year Flood Hazard (3)
Genoa (T)	15	2	\$5,889	0	0	1	1	13

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 Genoa, 62 residents live within the 1% annual chance flood area (NFIP Special Flood Hazard Area). Of the municipality's total land area, 8.8% is located within the 1% annual chance flood area. \$2,973,350 (1.9%) 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 1 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, \$156,769 (0.1%) of the municipality's general building stock replacement cost value (structure and contents) will be damaged and 635 tons of debris could be generated. HAZUS-MH estimates no damage or loss of use to critical facilities in the community as a result of a 1% annual chance flood event. 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 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
GN-1	Replace bridge at Creek Road. Also address creek bank erosion above new bridge. The current bridge sight being monitored for scour and erosion.	Existing	Flood	1-1 3-4	NYS DOT	High	High	Federal and State Funding	Complete by 2014	High	SP
GN-2	The Cayuga SWCD proposes to complete bank stabilization along the Cayuga Lake lakeshore and nearby tributaries as needed.	Existing	Flood	4-1 4-2 4-3 4-4	Cayuga SWCD; NYSDEC; USACE;	High	High	HMA Grants, State, County, local funding	On-going DOF	Medium	NR
GN-3	The Cayuga SWCD proposes to complete bank stabilization and clearing/snagging of debris jams from the channels of the Big Salmon Creek, Little Salmon Creek and their tributaries. Protecting the banks from erosion and removing excess gravel and debris from the watercourse will allow the main flow of the water to remain in the channel. Areas where improvements can be made to enhance the streams' ability to reach its' floodplain will also be investigated and potential projects proposed. Significant losses to valuable agricultural land, forestland and property would be mitigated. The reduction of soil loss would also be beneficial for the water quality of Cayuga Lake as a result of the reduction of nutrient rich soil particles entering the Lake.	Existing	Flood	4-1 4-2 4-3 4-4	Cayuga SWCD; NYSDEC; USACE;	High	High	HMA grants, State, County, local funding	Long Term DOF	Medium	NR



**SECTION 9.12: TOWN OF GENOA**

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
GN-4	<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>• Provide and maintain links to the HMP website, and regularly post notices on the County/municipal homepage(s) referencing the HMP webpages.</li> <li>• 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>• 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 the availability of mitigation grant funding.</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
GN-5	Incorporate ordinances and/or zoning restrictions to control and mitigate future development in hazard areas, specifically as identified in	N/A	All Hazards	1-6 4-3	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	PR



**SECTION 9.12: TOWN OF GENOA**

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
	Section I.										
GN-6	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
GN-7	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
GN-8	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
GN-9	Participate in local, county and/or state level projects and programs to develop improved structure and facility inventories and hazard datasets to support enhanced risk assessment efforts. Such programs may include developing 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	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 9.12: TOWN OF GENOA**

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals and Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
	<p>purposes including:</p> <ul style="list-style-type: none"> <li>Support the performance of enhanced risk and vulnerability assessments for hazards of concern.</li> <li>Support state, county and local planning efforts including mitigation (including updates to the State HMP), comprehensive emergency management, debris management, and land use.</li> </ul> <p>Improved structural and facility inventories could incorporate flood, wind and seismic-specific parameters (e.g. first floor elevations, roof types, structure types based on FEMA-154 "Rapid Visual Screening of Buildings for Potential Seismic Hazards" methodologies). It is recognized that these programs will need to be initiated and supported at the County and/or State level, and will require training, tools and funding provided at the county, state and/or federal level.</p>										
GN-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	High	PR
GN-11	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
GN-12	Identify and develop agreements with entities that	N/A	All Hazards	3-7	Municipality with support	Medium	Medium	Municipal Budget	Short Term	Medium	PR, ES



**SECTION 9.12: TOWN OF GENOA**

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
	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				from County, NYSOEM and FEMA						
GN-13	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
GN-14	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
GN-15	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.	Existing	Flood, Severe Storm	1-2 4-2	Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from County Planning, NYSOEM, FEMA	High	High	FEMA Mitigation Grants	Long Term DOF	Medium	PP



**SECTION 9.12: TOWN OF GENOA**

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
GN-16	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
GN-17	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
GN-18	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
GN-19	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	1-4 1-6 2-2	Municipality with support from County, NYSOEM and FEMA	Medium	Low	Municipal Budget	Short Term DOF	Medium	PE
GN-20	Adopt regulations for undergrounding utilities in new developments.	N/A	Severe Storm	1-6 3-1	Municipal Council	Medium	Low	Municipal Budget	Short	H	PR
GN-21	Implement permit fee waivers for installation of backup power for private property.	N/A	Severe Storm	2-4 2-5	Municipal Council	Medium	Low	Municipal Budget	Short	H	PR
GN-22	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
GN-23	Implement, review, and enforce municipal policies and	N/A	Severe Storm	1-6 4-3	Municipal Code Enforcement	Medium	Low	Municipal Budget	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
	programs to prevent trees from threatening lives and impacting power availability/interruption.										

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

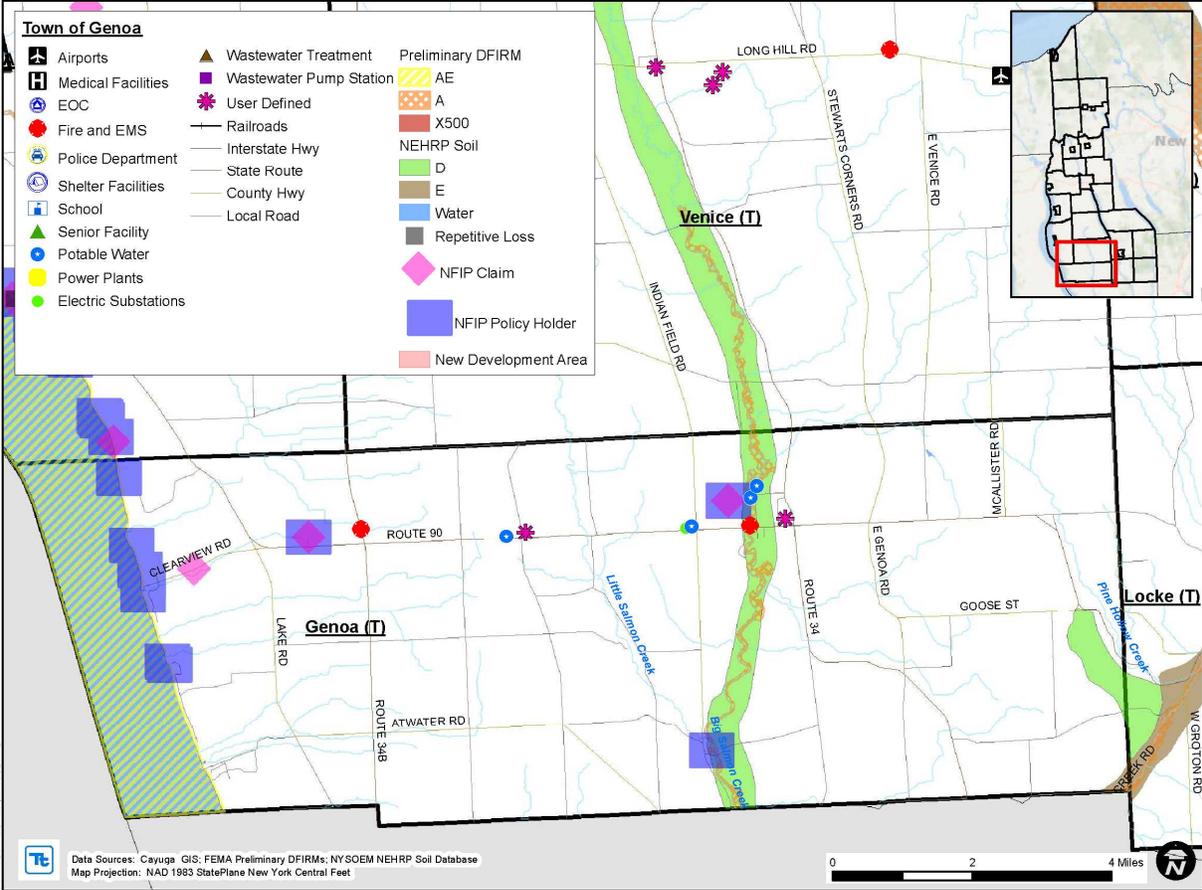
Prioritization of initiatives was based on parameters other than stated above: Not applicable.

### **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 Genoa joined the NFIP on November 4, 1983, 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.

**2. Administrative and Technical Staff**

The Town of Genoa does not have dedicated staff or personnel to manage and uphold the Town of Genoa's compliance with the NFIP.

**3. Financial**

As of May, 2013, there are 12 policies enforced within the Town of Genoa. A total of five insurance claims have been reported within the Town of Genoa. As of June, 2012, there have been zero repetitive loss properties and zero severe repetitive loss properties within the Town of Genoa.

**4. Educational**

None at this time.

**5. Actions to Strengthen the Program**

None at this time.