

9.25 TOWN OF ONONDAGA

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

A.) HAZARD MITIGATION PLAN POINT OF CONTACT

Primary Point of Contact	Alternate Point of Contact
Ron Ryan, Code Enforcement Officer Town of Onondaga 5020 Ball Rd., Syracuse, NY 13215 Phone: (315) 469-3144 E-mail: rryan@townofonondaga.com	Name/Title Mailing Address Phone: E-mail:

B.) TOWN PROFILE

Population

21,575 (estimated 2007 U.S. Census)

Location

The Town of Onondaga is located in the central portion of Onondaga County, approximately 3 miles south of the City of Syracuse. It is bordered by the Town of Geddes to the north, the Town of Camillus to the northwest, the City of Syracuse to the northeast, the Town of Lafayette to the southeast, the Town of Otisco to the south, the Town of DeWitt to the east and the Town of Marcellus to the west. The villages and hamlets which make up the town are: Cedarvale, Howlett Hill, Navarino, Nedrow, Onondaga Hill, Sentinel Heights, South Onondaga, Southwood, Split Rock, and Taunton.

Interstate 81 passes along the east side of the town. US Route 11 is a north-south highway in the eastern part of Onondaga, paralleling the interstate. US Route 20 is an east-west highway in the south of the town. New York State Route 173 is an east-west highway through the middle of Onondaga. New York State Route 11A diverges westward from US-11. New York State Route 80 cuts through the south part of the town.

According to the U.S. Census Bureau, the town has a total area of 57.8 square miles (149.8 km²), with 57.7 square miles (149.5 km²) of it land and 0.1 square miles (0.2 km²) of it (0.16-percent) water.

Climate

Onondaga County generally experiences seasonable weather patterns characteristic of the northeastern U.S. Cyclonic systems and cold air masses affect the County's weather, making winters cold with snow. During the summer and parts of spring and autumn, temperatures rise during the daytime and fall rapidly after sunset. Summer temperatures typically range from about 76°F to 81°F (Fahrenheit). Winter high temperatures are usually in the middle to upper 30°F, with minimum temperatures of 14°F expected. Overall, the average high temperature for the County is approximately 57°F and the average low temperature is approximately 37°F. Snow accumulates to an average depth of 121 inches each year.

Brief History

Before the American Revolution, this town was the capital of the Six Nations. It was attacked by the Continental Army on April 21, 1779. The town is still located within the territory of the Onondaga, a



constituent tribe of the Iroquois. This region was within the Central New York Military Tract, but part of the town was a reservation in the tract reserved for members of the Onondaga.

The Town of Onondaga was incorporated on April 2, 1798 from parts of other towns, with several subsequent boundary changes. The town was established originally, when Onondaga County was formed in 1794, from parts of the Towns of Marcellus, Pompey, and Manlius.

Governing Body Format

The Town of Onondaga is governed by a supervisor and four councilors.

Growth/Development Trends

Please identify and insert any major residential/commercial development and major infrastructure development that are identified for the next five (5) years. If there are no specific plans that exist, please state this.

New Development/Potential Development in Municipality						
Property Name	Type Residential or Commercial	Number of Structures	Address	Block and Lot	Known Hazard Zone	Description/Status

C.) NATURAL HAZARD EVENT HISTORY SPECIFIC TO THE TOWN

Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
Snowstorm / Extreme Cold	Not applicable	February, 1961	\$80,000 (countywide)
Flood	Not applicable	July, 1970	\$250,000 (countywide)
Snowstorm	Not applicable	March, 1971	\$806,000 (countywide)
Snowstorm / Extreme cold	Not applicable	February, 1972	\$803,000 (countywide)
Flood (Tropical Storm Agnes)	DR-338	June, 1972	\$1,600,000 (countywide)
Flood	Not applicable	March, 1973	\$200,000 (countywide)
Snowstorm	Not applicable	December, 1973	\$83,000 (countywide)
Severe Storms and Flooding	DR-447	July, 1974	\$7,200,000 (countywide)
Severe Storms, Heavy Rain, Landslides, Flooding	DR-487	September, 1975	\$6,300,000 (countywide)
Flood	Not applicable	April, 1976	\$313,000 (countywide)
Blizzard	Not applicable	January, 1977	\$2,100,000 (countywide)
Flood	Not applicable	October, 1981	\$833,000 (countywide)
Tornado (F3)	Not applicable	May, 1983	\$2,500,000 (countywide)
Snowstorm	Not applicable	February, 1984	\$156,000 (countywide)
Tornado (F1)	Not applicable	July, 1986	\$250,000 (countywide)



Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
Blizzard and Extreme Cold	EM-3107	March, 1993	\$455,000 (countywide)
Snowstorm	Not applicable	April, 1993	\$100,000 (countywide)
Thunderstorm / Winds	Not applicable	August, 1993	\$600,000 (countywide)
Severe Storm and Flooding	DR-1095	January, 1996	\$7,600,000 (countywide)
Flood	Not applicable	November, 1996	\$100,000 (countywide)
Thunderstorm / Winds / Tornado	Not applicable	May, 1998	\$200,000 (countywide)
Thunderstorm / Winds	Not applicable	August, 1998	\$200,000 (countywide)
Severe Storm	DR-1244	September, 1998	\$90,000,000, 3 fatalities, 7 injuries (countywide)
Thunderstorm / Winds	Not applicable	July, 1999	\$750,000 (countywide)
Severe Storms	DR-1335	May/September, 2000	Not available
Snowstorms	Not applicable	December, 2002 / January, 2003	\$353,000 (countywide)
Flood	Not applicable	June, 2002	\$2,000,000 (countywide)
Snowstorm (President's Day Storm)	Not applicable	February, 2003	\$153,000 (countywide)
Ice Storm	DR-1467	April, 2003	\$2,900,000 (countywide)
Severe Storms and Flooding	DR-1564	August / September 2004	\$2,000,000 (countywide)
Severe Storm and Flooding	Not applicable	April, 2005	\$100,000 (countywide)
Flood	Not applicable	July, 2005	\$500,000 (countywide)
Severe Storms and Flooding	Not applicable	June/July, 2006	\$29,000 (countywide)
Lake Effect Snowstorm / Extreme Cold	Not applicable	February, 2007	\$3,000,000 (countywide)

Number of FEMA Identified Repetitive Flood Loss Properties: 0

Number of FEMA Identified Severe Repetitive Flood Loss Properties: 0

Source: FEMA Region II, 2009

Note: Repetitive loss and severe repetitive loss data as of February 2009.

D.) NATURAL HAZARD RISK/VULNERABILITY RISK RANKING

Rank #	Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a,c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
3	Earthquake	\$9,089,096 ^{c,e}	Rare	16	Low
2	Flood	\$32,943,000 ^{c,e}	Frequent	18	Low
4	Ground Failure	Not available ^f	Rare	6	Low
1	Severe Storm	\$0 ^{c,d,g}	Frequent	48	High
1	Severe Winter Storm	\$86,181,200 ^{c,d}	Frequent	48	High

- a. Building damage ratio estimates based on FEMA 386-2 (August 2001)
- b. High = Total hazard priority risk ranking score of 40 and above
Medium = Total hazard priority risk ranking of 20 - 39
Low = Total hazard risk ranking below 20
- c. The valuation of general building stock and loss estimates determined in Onondaga County were based on the default general building stock database provided in HAZUS-MH MR3 (RSMMeans 2006).
- d. Severe storm and severe winter storm hazard 500-year MRP loss estimate is structural value only; does not include the value of contents. For severe winter storm, the loss estimate is 5% of total general building stock value.
- e. Loss estimates for both structure and contents (500-year MRP for the flood hazard and 2,500-year MRP for the earthquake hazard).
- f. Approximately 100% of the Town's general building stock is located within the landslide hazard area.
- g. Potential losses for severe storm are underestimated by HAZUS.

E.) CAPABILITY ASSESSMENT

This section identifies the following capabilities of the local jurisdiction:

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

E.1) Legal and Regulatory Capability

Regulatory Tools (Codes, Ordinances., Plans)	Local Authority (Y or N)	Prohibitions (State or Federal) (Y or N)	Higher Jurisdictional Authority (Y or N)	State Mandated (Y or N)	Code Citation (Section, Paragraph, Page Number, date of adoption)
1) Building Code	Y	N	Y	N	L.L. #3 1989 Chapter 8
2) Zoning Ordinance	Y	N	N	N	L.L. # 1 1994 Chapter 35
3) Subdivision Ordinance	Y	N	N	N	L.L. # 1 1967 Chapter 30 L.L. # 1 1974
4) NFIP Flood Damage Prevention Ordinance (if you are in the NFIP, you must have this.)	Y	Y	Y	Y	L.L. # 3 1987 Chapter 16A
5) Growth Management	Y	N	N	N	Master Plan
6) Floodplain Management / Basin Plan	Y	Y	Y	N	L.L. # 3 of 1987 Chapter 16A
7) Stormwater Management Plan/Ordinance	Y	N	Y	Y	L.L. # 6 of 2008 Chapter 29C
8) Comprehensive Plan / Master Plan/ General Plan	Y	N	N	N	Master Plan
9) Capital Improvements Plan	N	N	N	N	
10) Site Plan Review Requirements	Y	Y	Y	N	L.L. # 1 of 1994 Sec. 35-24
11) Open Space Plan					
12) Economic Development Plan		N	N	N	
13) Emergency Response Plan	Y	N	Y	Y	Executive Order #1 of 1993
14) Post Disaster Recovery Plan					
15) Post Disaster Recovery Ordinance		N	N	N	
16) Real Estate Disclosure req.		N	N	N	
17) Other [Special Purpose Ordinances (i.e., critical or sensitive areas)]					

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	Y	By Contract with C&S Companies
2) Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	By Contract with C&S Companies
3) Planners or engineers with an understanding of natural hazards	Y	By Contract with C&S Companies
4) NFIP Floodplain Administrator (if you are in the NFIP, you must have one.)	Y	Code Enforcement Officer
5) Surveyor(s)	Y	By Contract when needed
6) Personnel skilled or trained in "GIS" applications	Y	By Contract with C&S Companies
7) Scientist familiar with natural hazards in the Town of Ashland.	N	
8) Emergency Manager	Y	Appointed by Town Board
9) Grant Writer(s)	N	
10) Staff with expertise or training in benefit/cost analysis	Y	Hazel Donahue, Director of Finance

E.3) Fiscal Capability

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

E.4) Community Classifications

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

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/>

E.) PROPOSED HAZARD MITIGATION INITIATIVES

Initiative #	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals / Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Time-line
TON-1	Where appropriate, support retrofitting, purchase, or relocation of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority.	Existing	Flood, Severe Storm	1-1, 1-2, 1-6; 2-5, 2-6; 3-2, 3-5, 3-7; 6-1	Municipality (likely through NFIP Floodplain Administrator)	High	FEMA Mitigation Grant Programs and local match	Long-term
TON-2	Consider participation in incentive-based programs such as CRS.	New & Existing	Flood	1-1, 1-3, 1-7; Goal 2 – All Objectives	Municipality (likely through NFIP Floodplain Administrator)	Low - Medium	Local Budget	Long-term DOF
TON-3	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0	New & Existing	All Hazards	All Goals and Objectives	Municipality (through mitigation planning point of contacts)	Low	Local Budget, possibly FEMA Mitigation Grant Funding for 5-year update	Ongoing
TON-4	Strive to maintain compliance with, and good-standing in the National Flood Insurance program.	New & Existing	Flood	2-4; 3-5, 3-6	Municipality (likely through NFIP Floodplain Administrator)	Low	Local Budget	Ongoing
TON-5	Continue to develop, enhance, and implement existing emergency plans.	New & Existing	All Hazards	1-4; 5-5; Goal 6 – All Objectives	Municipal Emergency Manager with support from County OEM and SEMO	Low - Medium	Local Budget	Ongoing

Initiative #	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals / Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Time-line
TON-6	Create/enhance/ maintain mutual aid agreements with neighboring communities.	New & Existing	All Hazards	3-3; 5-2, 5-3, 5-5, 5-6; 6-5, 6-6	Local Emergency Management, DPW and Roads	Low - Medium	Local Budget	Ongoing
TON-7	Support County-wide initiatives identified in Section 9.1 of the County Annex.	New & Existing	All Hazards	All Goals	Local departments (as applicable for specific initiative)	Low - Medium	Local Budget	Ongoing
TON-8	Support/Participate in the Stream Team program offered by the Onondaga County SWCD, to assist in the removal of debris, log jams, etc. in flood vulnerable stream sections.			1-3, 1-7; 2-3; 4-1,4-4; 5-1, 5-2, 5-3	County, OCSWCD (Mark Burger)			
TON-9	Replace and upgrade existing culverts to increase drainage capacity and mitigate frequent flooding along Kasson Road, Onondaga Boulevard and Harris Road.							
TON-10	Retention/detention facilities Please be more specific in terms of what you are requesting							
TON-11	Cleaning and maintenance of classified streams on private properties... Do they experience flooding? Bank erosion? Please add more details regarding hazard being mitigated and what streams you are referring to.							

Initiative #	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals / Objectives Met	Lead Agency	Estimated Cost	Sources of Funding	Time-line

DHS Department of Homeland Security Long 5 years or greater.
 DOF Depending on Funding Short 1 to 5 years
 DPW Department of Public Works TBD To be determined
 FEMA Federal Emergency Management Agency
 HMA Hazard Mitigation Assistance

*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure?

G.) ANALYSIS OF MITIGATION ACTIONS

This table summarizes the participant's mitigation actions by hazard of concern and the six mitigation types to illustrate that the Town has selected a comprehensive range of actions/projects.

Hazard of Concern	Mitigation Type					
	1. Prevention	2. Property Protection	3. Public Education and Awareness	4. Natural Resource Protection	5. Emergency Services	6. Structural Projects
Earthquake	TON-3, TON-7	TON-3, TON-7	TON-3, TON-7	TON-3, TON-7	TON-3, TON-5, TON-6, TON-7	TON-3, TON-7
Flooding (riverine, flash, coastal and urban flooding)	TON-2, TON-3, TON-4, TON-7	TON-1, TON-2, TON-3, TON-4, TON-7	TON-1, TON-2, TON-3, TON-4, TON-7	TON-3, TON-7	TON-2, TON-3, TON-5, TON-6, TON-7	TON-3, TON-7
Ground Failure	TON-3, TON-7	TON-3, TON-7	TON-3, TON-7	TON-3, TON-7	TON-3, TON-5, TON-6, TON-7	TON-3, TON-7
Severe Storms (windstorms, thunderstorms, hail, lightning and tornados)	TON-2, TON-3, TON-4, TON-7	TON-1, TON-2, TON-3, TON-4, TON-7	TON-1, TON-2, TON-3, TON-4, TON-7	TON-3, TON-7	TON-2, TON-3, TON-5, TON-6, TON-7	TON-3, TON-7
Severe Winter Storm (heavy snow, blizzards, ice storms)	TON-3, TON-7	TON-3, TON-7	TON-3, TON-7	TON-3, TON-7	TON-3, TON-5, TON-6, TON-7	TON-3, TON-7

Notes:

- 1. Prevention:** Government, administrative or regulatory actions or processes that influence the way land and buildings are developed and built. These actions also include public activities to reduce hazard losses. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- 2. Property Protection:** 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. 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. 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. 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.
- 6. 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.

H.) 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)
TON-1		H	H	Y	Y	N	M-H*
TON-2		M	L	Y	N	Y	H
TON-3		M	M	Y	N (Yes for 5 year update)	Y	H
TON-4		H	L	Y	N	Y	H
TON-5		M	L	Y	N	Y	H
TON-6		M	L	Y	N	Y	H
TON-7		M-H	L-M	Y	Dependant on specific initiative	Dependant on specific initiative	M-H (dependant)

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.

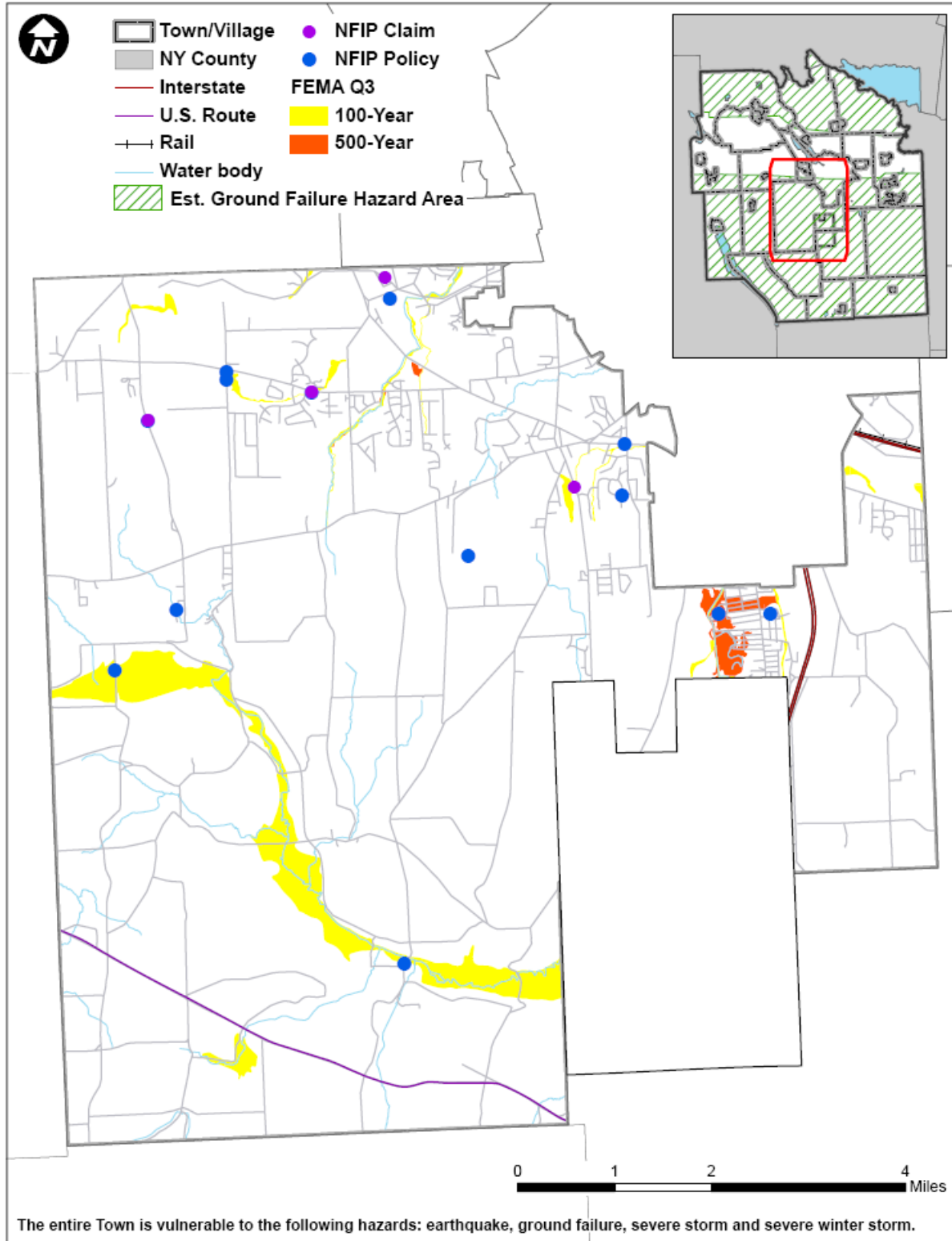
I.) FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY

None at this time.



J.) HAZARD AREA EXTENT AND LOCATION

A hazard area extent and location map has been generated and is provided below for the Town of Onondaga to illustrate the probable areas impacted within the Town. 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 Town of Onondaga has significant exposure. The County maps are provided in the hazard profiles within Section 5.4, Volume I of this Plan.



Sources: FEMA Q3; FEMA Region II, 2008; HAZUS-MH MR3; NYSDPC, 2008

Notes: Est. = Estimated; NFIP = National Flood Insurance Program

The entire municipality is vulnerable to the following hazards: earthquake, ground failure, severe storm, and severe winter storm.

K.) ADDITIONAL COMMENTS

No additional comments at this time.