

**9.21 TOWN OF NILES**

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

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

| Primary Point of Contact  | Alternate Point of Contact  |
|---|---|
| <p><u>Name: Patrick Steger, Highway Superintendent/ President of CCTWSA</u><br/> <u>Address: 5921 New Hope Rd. Moravia, New York 13118</u><br/> <u>Phone Number: 315-497-2606; 315-246-7198</u><br/> <u>Fax Number: 315-497-9952</u><br/> <u>Email address: townofniles@hotmail.com</u></p> | <p><u>Name: Bernard Juli, Councilman</u><br/> <u>Address: 5921 New Hope Rd. Moravia, New York 13118</u><br/> <u>Phone Number: 315-497-0066</u><br/> <u>Fax Number:</u><br/> <u>Email address: ladybugs625@hotmail.com</u></p> |

**B.) PROFILE**

**Population**

According to the 2010 U.S. Census, the estimated Town of Niles population was 1,194. The Town of Niles is one of the 23 towns in Cayuga County.

**Location**

The Town of Niles is located in southeast Cayuga County, sharing its western border with Owasco Lake and its eastern border with Onondaga County and Skaneateles Lake. It is bordered by the Cayuga County towns of Sempronius to the southeast, Moravia to the southwest, Scipio to the west, and Owasco to the north.

**Brief History**

Like many other towns in Cayuga County, Niles was formed on land once reserved as part of the Central New York Military Tract, used to compensate veterans of the Revolutionary War. The first non-native settlements in the area were established around 1792 in what was first to be incorporated as the Town of Sempronius. The Town of Niles was created in 1833 when the parent township of Sempronius was divided (Town of Niles, Date Unknown).

**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 Cayuga County personnel as a resource (Cayuga County, 2010).

**Growth/Development Trends**

The jurisdiction noted that there is no major residential/commercial development or major infrastructure development that has been identified for the next five (5) years in the town.



## 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 Cayuga County and its municipalities. Below is presented a summary of historical events to indicate the range and impact of natural hazard events in Cayuga 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  |

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| 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  |
| 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                     |  |
| Heavy Rain/Mudslide   |                                 |                    | June 18, 1998               | After heavy rains, mudslides along the Appletree Point road edge resulted in the road being closed for 6 months.   |
| Tornado(s) in Niles and Moravia                               | DR-1222<br>DR-1233              | No                 | Summer 1998                 |  |
| Labor Day storm.  | DR-1244                         | Yes - IA, PA       | 9/1998                      |  |
| USDA declared Drought (t40329).                               |                                 |                    | 8/1999                      |  |
| 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 of Cato. |                                 |                    | 2/2003                      |  |
| 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 Rain/Landslide  |                                 |                    | August 30, 2004             | Road washout at Glen Cove. Water runoff during a heavy rainfall deposited 12" deep crusher run down the road, and another section of road sank 10" towards the lake due to a poor road base. |
| 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 |  |

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| Type of Event  | FEMA Disaster # (if applicable) | County Designated? | Date                                  | Approximate Damage Assessment  |
|--|---------------------------------|--------------------|---------------------------------------|--|
| 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                         |  |
| Landslide  |                                 |                    | November 26, 2007                     | A landslide occurred along the south side of Cream Hollow Road. Road was temporary closed except for local traffic, and repairs were made. |
| Severe Storms and Flooding                                 | DR 1857                         | No                 | August 9, 2009                        |  |
| Severe Storms and Flooding                                 | DR 1993                         | No                 | April 26, 2011—<br>May 8, 2011        |  |
| Severe Storms and Flooding                                 | EM 3328                         | No                 | August 26, 2011                       |  |
| Hurricane Irene  | DR 4020                         | No                 | August 26, 2011—<br>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: \$331,688<br>0.2% Annual Chance: \$404,598                               | Frequent                  | 18  | Medium                      |
| Severe Storm        | 100-Year MRP: \$0<br>500-Year MRP: \$1,818<br>Annualized Loss: \$202                       | Frequent                  | 18  | Medium                      |
| Severe Winter Storm | 1% of GBS: \$885,226<br>5% of GBS: \$4,426,131   | Frequent                  | 48  | High                        |
| Transportation      | Not available  | Rare                      | 6   | Low                         |
| Ground Failure      | Karst Exposure \$0<br>Moderate Incidence \$31,301,300<br>Moderate Susceptibility \$0       | Occasional                | 24  | Medium                      |

- 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, and fiscal capability; limited community resiliency, and community political capability; with 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<br>(Codes, Ordinances., Plans)      | Do you<br>have this?<br>(Y or N) | Enforcement<br>Authority      | Code Citation<br>(Section, Paragraph, Page<br>Number, Date of adoption) |
|--|----------------------------------|-------------------------------|---|
| 1) Building Code                                     | Y                                | Local                         | 98:1; 6/7/2007  |
| 2) Zoning Ordinance                                  |                                  | Local                         |   |
| 3) Subdivision Ordinance                             | Y                                | Local                         | 9/14/1995   |
| 4) NFIP Flood Damage<br>Prevention Ordinance         | Y                                | Local                         | 107:1; 7/5/2007; superseded<br>former Ch.107 adopted<br>5/13/1993       |
| 4a) Cumulative Substantial<br>Damages                |                                  |                               |   |
| 4b) Freeboard  |                                  |                               |   |
| 5) Growth Management                                 |                                  |                               |   |
| 6) Floodplain Management / Basin<br>Plan             | Y                                | Local or Watershed            | 11201; 8/26/1976  |
| 7) Stormwater Management<br>Plan/Ordinance           |                                  |                               |   |
| 8) Comprehensive Plan / Master<br>Plan/ General Plan | Y                                | Local                         | 12/3 or 12/29/09  |
| 9) Capital Improvements Plan                         |                                  |                               |   |
| 10) Site Plan Review<br>Requirements                 | Y                                | Local                         | 170:1; 9/14/1995; Amendments<br>noted in the Chapter                    |
| 11) Open Space Plan                                  |                                  |                               |   |
| 12) Stream Corridor Management<br>Plan               |                                  |                               |   |
| 13) Watershed Management or<br>Protection Plan       |                                  |                               |   |
| 14) Economic Development Plan                        |                                  |                               |   |
| 15) Comprehensive Emergency<br>Management Plan       | Y                                | Local or County               | 12/29/09  |
| 16) Emergency Response Plan                          | Y                                | Local Fire Service            | Training 12/18/1995   |
| 17) Post Disaster Recovery Plan                      |                                  |                               |   |
| 18) Post Disaster Recovery<br>Ordinance              |                                  |                               |   |
| 19) Real Estate Disclosure<br>Requirement            |                                  | State                         | State Requirement   |
| 20) Town of Niles Code Book                          | Y                                | Niles Board (General<br>Code) | 3/9/2000  |

**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                  | Planning Board                              |
| 2) Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure | Y                  | Building and Codes Officer                  |
| 3) Planners or engineers with an understanding of natural hazards  | Y                  | Highway Superintendent                      |
| 4) NFIP Floodplain Administrator   | Y                  | Robert Martin, Planning Board Chairman      |
| 5) Surveyor(s)   | N                  |   |
| 6) Personnel skilled or trained in "GIS" applications  | N                  |   |
| 7) Scientist familiar with natural hazards   | N                  |   |
| 8) Emergency Manager   | Y                  | Highway Superintendent                      |
| 9) Grant Writer(s)   | N                  |   |
| 10) Staff with expertise or training in benefit/cost analysis  | N                  |   |
| 11) Erosion and Sediment Control   | Y                  | Highway Superintendent – training 1/11/99   |
| 12) Preparing and Planning for Storms and Floods   | Y                  | Highway Superintendent – training 3/25/1998 |

**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                              | Y – Highway Department; CHIPS (state roads and bridges)                       |
| 3) Authority to Levy Taxes for specific purposes                     | Y – Town Board  |
| 4) User fees for water, sewer, gas or electric service               | N   |
| 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                |   |
| 10) State mitigation grant programs (e.g. NYSDEC, NYCDEP)            | Y – Cayuga County Soil and Water Control District (stream bank stabilization) |
| 11) Other  |   |

#### E.4) Community Classifications

| Program  | Classification | Date Classified |
|--|----------------|-----------------|
| Community Rating System (CRS)                        |                |                 |
| 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/>

## F. MITIGATION STRATEGY

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

The town has completed the following mitigation actions:

- Drainage improvements on a washed-out road
- Bank stabilization with large rip-rap on three road gullies; other areas in Town still needing preventative work done, however limited or no funding is available.
  - Riprap added to Appletree Point road to prevent future road slides.
  - New drain and large rip-rap installed at Glen Cove Rd. between 2004-2005.
  - Riprap added to gully along Cream Hollow Road (east) to prevent future road slides.

### F.2) Hazard Vulnerabilities Identified

The jurisdiction identified three specific hazard problems and problem areas within the community. The first is the incidence of road washout – in the past, a plugged culvert caused a stormwater overflow which eroded one lane of a local roadway. The second vulnerability exists on certain roadways along the three ravines in town. These areas have experienced numerous land

failure incidents, including mudslides and the road surface in one lane dropping towards the gully or lake. This is a continuing problem at the ravine areas. The third is an abandoned Town bridge located at the north end of Old State Road. The structural integrity of this bridge's south abutment has been compromised by scour from Dutch Hollow Brook. Removal of this bridge prior to failure will prevent potential flooding and/or streambank failure should the bridge fall into Dutch Hollow Brook, as well as prevent damage to State Route 38A.

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

- Dutch Hollow Brook has been evaluated for flooding and erosion concerns. Streambank erosion and woody debris have been identified as primary concerns along the stretch.
- Owasco Lake is a major Finger Lake located entirely within Cayuga County. It supplies drinking water to the City of Auburn and several towns within Cayuga County. Lake levels are controlled by the City of Auburn, however, in the event of a major storm, water levels could rise above normal stages and threaten lakeshore properties and homes. This could also head to contamination of the drinking water supply, as pollutants could overwhelm the water filtration plant's capabilities. Land use in the area includes residential areas and agriculture. Recreation areas, steep slopes and certain beaches on parts of the lake may require stabilization. The Cayuga County SWCD has worked on many such projects on the lake in the past, as well as dredging in areas that have received heavy siltation.
- Skaneateles Lake is a major Finger Lake located partially within Cayuga County. Skaneateles Lake is the primary source of water for the City of Syracuse. Land use in the area includes residential areas and agriculture. Erosion on the lakeshore is of concern, as the banks of the lake in Cayuga County are generally high and very steep. In the event of a major storm, water levels could rise above normal stages and damage the shoreline. Recreation areas, steep slopes and certain beaches on parts of the lake may require stabilization.

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) |
|--------------|----------------|-----------------------|-------------------------|-----------------------|------------------------------|------------------------------------|-------------------------------|--|
| Niles (T)    | 9              | 2                     | \$2,044                 | 0                     | 0                            | 1                                  | 0                             | 8  |

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 Niles, 38 residents live within the 1% annual chance flood area (NFIP Special Flood Hazard Area). Of the municipality's total land area, 10.7% is located within the 1% annual chance flood area. \$2,022,000 (1.5%) of the municipality's general building stock replacement cost value (structure and contents) is located within the 1% annual chance flood area. There are 9 NFIP policies in the community. While there are 1 policies located within the 1% annual chance flood area, there are only policies issues to property owners in 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, \$331,688 (0.2%) of the municipality's general building stock replacement cost value (structure and contents) will be damaged and 161 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 |  |  |
| Maus Marineland | Niles (T)    | Airport | 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 |
|------------|---|--|---------------------|--------------------------|--|--------------------|----------------|---|----------------|----------|---------------------|
| NI-1       | Drainage improvements on a washed-out road where (as noted in section F.2) a plugged culvert previously caused a stormwater overflow which eroded one lane of a local roadway.  | Existing                                   | Flood               | 1-1<br>3-4               | Municipal Public Works, County and State | High               | High           | Federal, State, County Grant opportunities            | Short Term DOF | Medium   | SP                  |
| NI-2       | Bank stabilization with large rip-rap on three road gullies along the three ravines in town   | New  | Flood               | 4-1<br>4-2<br>4-3<br>4-4 | Municipal Public Works                   | High               | High           | Federal, State, County Grant opportunities, municipal | Short Term DOF | Medium   | SP                  |
| NI-3       | Continue preventative work in gully stabilization along the three ravines in town   | New and Existing                           | Flood               | 4-1<br>4-2<br>4-3<br>4-4 | Municipal Public Works                   | High               | High           | Federal, State, County Grant opportunities, municipal | Short Term DOF | Medium   | SP                  |
| NI-4       | Protect both Skaneateles and Owasco lake water from upstream sediment dumping during heavy rainstorms   | New and Existing                           | Flood               | 4-1<br>4-2<br>4-3<br>4-4 | Municipal Public Works                   | High               | High           | Federal, State, County Grant opportunities, municipal | Short Term DOF | Medium   | SP                  |
| NI-5       | The Cayuga SWCD proposes to complete bank stabilization and clearing/snagging of debris jams from the channel of the Dutch Hollow Brook watercourse. 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 | Existing                                   | Flood               | 4-1<br>4-2<br>4-3<br>4-4 | Cayuga SWCD; NYSDEC; USACE;              | High               | High           | HMA grants, State, County, local funding              | On-going DOF   | Medium   | NR                  |

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| 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 |
|------------|--|--|---------------------|---------------------------------|---|--------------------|----------------|---|--------------|----------|---------------------|
|            | and property would be mitigated. The reduction of soil loss would also be beneficial for the water quality of Owasco Lake as a result of the reduction of nutrient rich soil particles entering the Lake.  |  |                     |                                 |   |                    |                |   |              |          |                     |
| NI-6       | The Cayuga SWCD proposes to complete bank stabilization along the Owasco Lake lakeshore and throughout the immediate unnamed smaller tributaries that flow into the lake, as needed. The reduction of soil loss would also be beneficial for the water quality of Owasco Lake as a result of the reduction of nutrient rich soil particles entering the Lake.  | Existing                                   | Flood               | 4-1<br>4-2<br>4-3<br>4-4        | Cayuga SWCD;<br>NYSDEC;<br>USACE;   | High               | High           | HMA grants, State, County, local funding                  | On-going DOF | Medium   | NR                  |
| NI-7       | The Cayuga SWCD proposes to identify areas of concern and complete bank stabilization along the Skaneateles Lake lakeshore as needed.  | Existing                                   | Flood               | 4-1<br>4-2<br>4-3<br>4-4        | Cayuga SWCD;<br>NYSDEC;<br>USACE;   | High               | High           | HMA grants, State, County, local funding                  | On-going DOF | Medium   | NR                  |
| NI-8       | 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: <ul style="list-style-type: none"> <li>• Provide and maintain links to the HMP website, and regularly post notices on Cayuga County/municipal homepage(s) referencing the HMP webpages.</li> <li>• Prepare and distribute informational letters to flood vulnerable property owners and</li> </ul> | N/A  | All Hazards         | 2-1<br>2-2<br>2-3<br>2-4<br>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                  |



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|------------|--|--|---------------------|--------------------------|--|--------------------|----------------|--------------------|----------|----------|---------------------|
|            | <p>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.</p> <ul style="list-style-type: none"> <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> |  |                     |                          |  |                    |                |                    |          |          |                     |
| NI-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<br>4-3               | Municipality with support from County, NYSOEM and FEMA | Medium             | Medium         | Municipal Budget   | Short    | Medium   | PR                  |
| NI-10      | Improve communication systems.   | N/A  | All Hazards         | 3-3<br>3-7               | Municipality with support from County, NYSOEM and FEMA | Medium             | Medium         | Municipal Budget   | Short    | Medium   | ES<br>PR            |
| NI-11      | <p>Develop programs/procedures to capture and archive loss data from events. Examples include:</p> <ul style="list-style-type: none"> <li>Record location and length of roadway closures;</li> <li>Develop a database of</li> </ul>  | N/A  | All Hazards         | 1-3<br>1-4               | Municipality with support from County, NYSOEM and FEMA | Medium             | Medium         | Municipal Budget   | Short    | Medium   | PR                  |



**SECTION 9.21: TOWN OF NILES**

| 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 |
|------------|--|--|---------------------|--------------------------|--|--------------------|----------------|---|---------------|----------|---------------------|
|            | residential and commercial property damage, including permit history for such repairs;<br><ul style="list-style-type: none"> <li>High water marks, perhaps painting phone poles with high water marks and or regulatory Base Flood Elevations (BFEs).</li> </ul>   |  |                     |                          |  |                    |                |   |               |          |                     |
| NI-12      | Obtain and install backup power sources at critical facilities.  | N/A  | All Hazards         | 3-3<br>3-5               | Municipality with support from County, NYSOEM and FEMA | Medium             | Medium         | Municipal Budget                                | Short         | Medium   | ES                  |
| NI-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. 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 purposes including:<br><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> Improved structural and | N/A  | All Hazards         | 1-1<br>1-3<br>1-4        | Hazard Mitigation Plan Coordinator                     | Medium-High        | Medium-High    | FEMA Mitigation Grant Programs with local match | Long Term DOF | Medium   | PR                  |



**SECTION 9.21: TOWN OF NILES**

| 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 |
|------------|--|--|---------------------|--------------------------|---|--------------------|----------------|---|------------------------|----------|---------------------|
|            | 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. |  |                     |                          |   |                    |                |   |                        |          |                     |
| NI-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                  |
| NI-15      | Create/Enhance/Maintain Mutual Aid agreements with neighboring communities for continuity of operations  | N/A  | All Hazards         | 3-2<br>3-5<br>3-6<br>3-7 | Municipality with support from County, NYSOEM, FEMA and surrounding communities | Medium             | Low            | Municipal Budget                                  | Short Term             | High     | PR, ES              |
| NI-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              |
| NI-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,   | N/A  | All Hazards         | 3-6<br>3-7               | Municipality with support from County, NYSOEM and FEMA                          | Medium             | Medium         | Municipal Budget, FEMA HMA and HLS grant programs | Short-Long Term<br>DOF | Medium   | PR                  |



**SECTION 9.21: TOWN OF NILES**

| 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 |
|------------|--|--|---------------------|--------------------------|---|--------------------|--------------------------------|--|---------------|----------|---------------------|
|            | certification of qualified individuals (e.g. code officials, floodplain managers, engineers).  |  |                     |                          |   |                    |                                |  |               |          |                     |
| NI-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<br>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                  |
| NI-19      | <p>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.</p> <p>Phase 1: Identify appropriate candidates based on cost-effectiveness, for example: <b>Maus Marineland</b></p> <p>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</p> | Existing                                   | Flood, Severe Storm | 1-2<br>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                  |
| NI-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   | N/A  | Flood, Severe Storm | 1-4<br>1-6<br>1-7<br>4-3 | Municipality (via Municipal Engineer/NFIP Floodplain Administrator) with support from NYSOEM, FEMA                  | High               | Low-Medium                     | Municipal Budget                       | Ongoing       | High     | PR, PE              |



**SECTION 9.21: TOWN OF NILES**

| 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 |
|------------|---|--|---------------------|--------------------------|--|--------------------|----------------|--|----------------|----------|---------------------|
|            | NFIP standards and criteria through the following NFIP-related continued compliance actions identified as Initiatives below.  |  |                     |                          |  |                    |                |  |                |          |                     |
| NI-21      | Obtain and archive elevation certificates   | N/A  | Flood, Severe Storm | 1-4<br>1-6               | NFIP Floodplain Administrator                          | Medium             | Low            | Municipal Budget   | On-going       | High     | PR                  |
| NI-22      | Promote the participation of Floodplain Administrators within the planning process and other activities.  | N/A  | Flood               | 1-4<br>1-7               | Municipality with support from County, NYSOEM and FEMA | Medium             | Medium         | Municipal Budget   | Short          | Medium   | PR                  |
| NI-23      | Enhance Cayuga 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<br>1-6<br>2-2        | Municipality with support from County, NYSOEM and FEMA | Medium             | Low            | Municipal Budget   | Short Term DOF | Medium   | PE                  |
| NI-24      | Adopt regulations for undergrounding utilities in new developments.   | N/A  | Severe Storm        | 1-6<br>3-1               | Municipal Council                                      | Medium             | Low            | Municipal Budget   | Short          | H        | PR                  |
| NI-25      | Implement permit fee waivers for installation of backup power for private property.   | N/A  | Severe Storm        | 2-4<br>2-5               | Municipal Council                                      | Medium             | Low            | Municipal Budget   | Short          | H        | PR                  |
| NI-26      | Provide public education and outreach on proper installation and/or use of backup power   | N/A  | Severe Storm        | 2-1<br>2-2               | Municipal Clerk  | Medium             | Low            | Municipal Budget   | Short          | H        | PR                  |
| NI-27      | Implement, review, and enforce municipal policies and programs to prevent trees from threatening lives and impacting power availability/interruption.   | N/A  | Severe Storm        | 1-6<br>4-3               | Municipal Code Enforcement                             | Medium             | Low            | Municipal Budget   | Short          | H        | PR                  |
| NI-28      | Removal of the abandoned Town bridge located at the north end of Old State Road. The structural integrity of this bridge's south abutment has been compromised by scour from Dutch Hollow Brook. Removal of this bridge prior to failure will prevent potential | Existing                                   | Flood               | 1-1<br>4-1               | Municipality   | High               | Medium         | Municipal Budget, Federal, State, County Grant opportunities | Short          | H        | NR, SP              |



| 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 |
|------------|--|--|---------------------|--------------------------|---------------------------|--------------------|----------------|--------------------|----------|----------|---------------------|
|            | flooding and/or streambank failure should the bridge fall into Dutch Hollow Brook. As well as prevent damage to State Route 38A. |  |                     |                          |                           |                    |                |                    |          |          |                     |

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?<br>(Yes or No) | Is project Grant eligible?<br>(Yes or No) | Can Project be funded under existing programs/budgets?<br>(Yes or No) | Priority<br>(High, Med., Low) |
|--------------|---------------------|----------|-------|---|---|---|-------------------------------|
| NI-1         | 2                   | H        | H     | Y   | Y   | N   | M                             |
| NI-2         | 4                   | H        | H     | Y   | Y   | N   | M                             |
| NI-3         | 4                   | H        | H     | Y   | Y   | N   | M                             |
| NI-4         | 4                   | H        | H     | Y   | Y   | N   | M                             |
| NI-5         | 4                   | H        | H     | Y   | Y   | N   | M                             |
| NI-6         | 4                   | H        | H     | Y   | Y   | N   | M                             |
| NI-7         | 4                   | H        | H     | Y   | Y   | N   | M                             |
| NI-8         | 5                   | M        | M     | Y   | Y   | N   | H                             |
| NI-9         | 2                   | M        | M     | Y   | Y   | Y   | M                             |
| NI-10        | 2                   | M        | M     | Y   | Y   | Y   | M                             |
| NI-11        | 2                   | M        | M     | Y   | Y   | Y   | M                             |
| NI-12        | 2                   | M        | M     | Y   | Y   | Y   | M                             |
| NI-13        | 3                   | M        | M     | Y   | Y   | N   | M                             |
| NI-14        | 1                   | L        | L     | Y   | N   | Y   | H                             |
| NI-15        | 4                   | M        | L     | Y   | N   | Y   | H                             |
| NI-16        | 1                   | M        | M     | Y   | N   | Y   | M                             |
| NI-17        | 2                   | M        | M     | Y   | Y   | N   | M                             |
| NI-18        | 2                   | H        | L     | Y   | Y   | N   | H                             |
| NI-19        | 2                   | H        | H     | Y   | Y   | N   | M                             |
| NI-20        | 4                   | H        | L     | Y   | N   | Y   | H                             |
| NI-21        | 2                   | M        | L     | Y   | N   | Y   | H                             |
| NI-22        | 2                   | M        | M     | Y   | N   | Y   | M                             |
| NI-23        | 3                   | M        | L     | Y   | N   | Y   | M                             |
| NI-24        | 2                   | M        | L     | Y   | N   | Y   | H                             |
| NI-25        | 2                   | M        | L     | Y   | N   | Y   | H                             |
| NI-26        | 2                   | M        | L     | Y   | N   | Y   | H                             |
| NI-27        | 2                   | M        | L     | Y   | N   | Y   | H                             |
| NI-28        | 2                   | H        | M     | Y   | Y   | 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

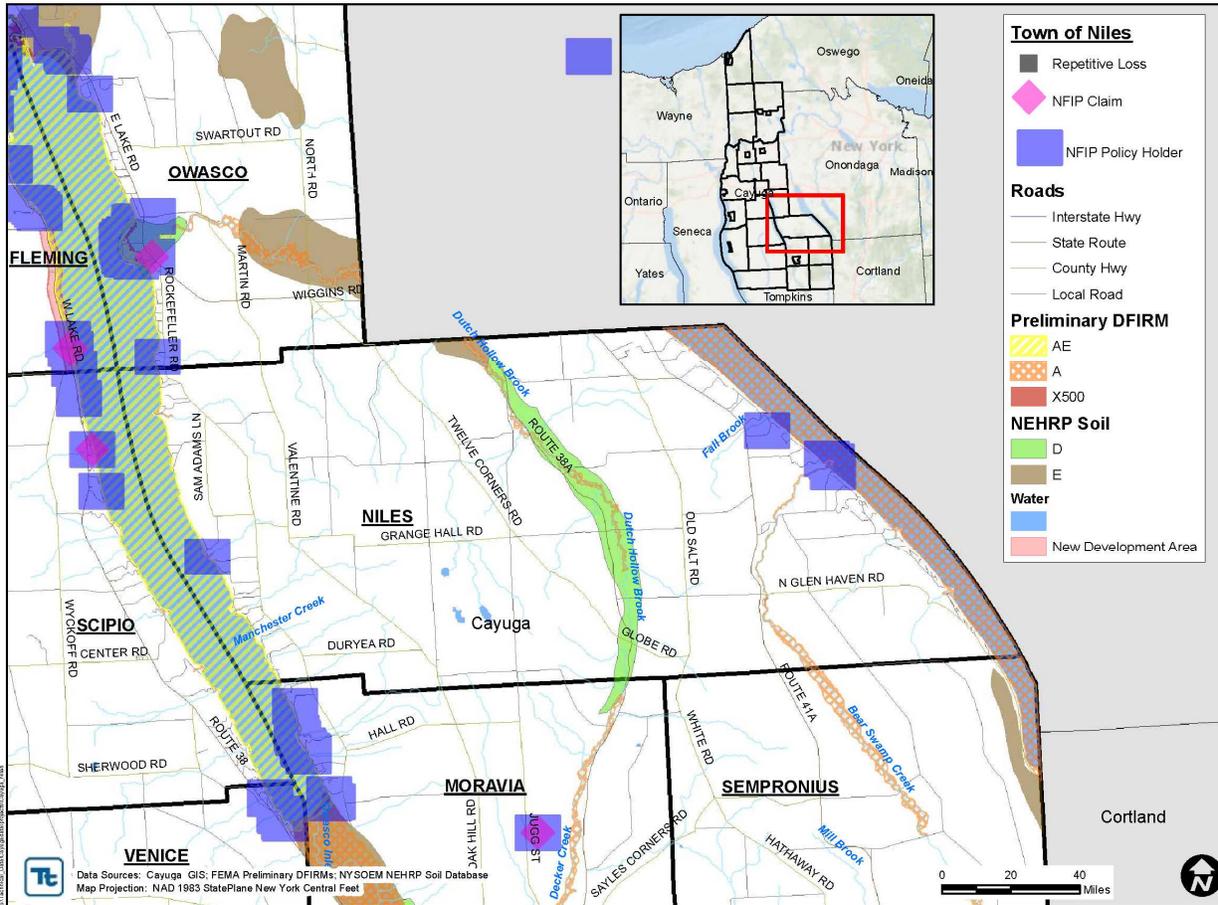
Prioritization of initiatives was based on parameters other than stated above: Not applicable.

**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 Niles joined the NFIP on February 6, 1984, 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 Niles is proactive in floodplain management with ordinances meeting minimum requirements.

**2. Administrative and Technical Staff**

The Town of Niles has identified personnel to manage and uphold the Town of Niles's compliance with the NFIP. Staff include: Robert Martin, Planning Board Chairman.

**3. Financial**

As of June, 2012, there are nine policies enforced within the Town of Niles. Of the nine insurance policies, one is within the Special Flood Hazard Area (SFHA), and 8 are located outside the SFHA. As of June, 2012, there have been zero repetitive loss properties and zero severe repetitive loss properties within the Town of Niles.

**4. Educational**

None at this time.

**5. Actions to Strengthen the Program**

None at this time.