

9.2 CITY OF AUBURN

This section presents the jurisdictional annex for the City of Auburn.

A.) HAZARD MITIGATION PLAN POINT OF CONTACT

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

Population

According to the 2010 U.S. Census, the estimated City of Auburn population was 27,687. Auburn is the only city in Cayuga County.

Location

The City of Auburn is located at the north end of Owasco Lake, in central Cayuga County. It is bordered by the Towns of Throop to the north, Sennett to the north and east, Owasco to the east and south, Fleming to the south, and Aurelius to the west.

Brief History

Auburn was established and became the county seat in 1805, and it became an incorporated village ten years later. In 1848, Auburn became chartered as a city.

Governing Body Format

Home rule is strong in New York State and thus, each municipality has its own governing body. The city is governed by a Mayor and City Council, and operates a Streets Department, Planning Departments, Solid Waste, Water and Sewer Department, and full time Police and Fire Departments. Auburn also has its own curbside trash and recycling pickup program, and the only hospital in the County (City of Auburn, 2012).

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			
Municipality	Property Name	Type (Residential or Commercial)	Number of Structures
Auburn (C)	State Dam (2013)		
Auburn (C)	Mill St. Hydro (2013-14)	Commercial	
Auburn (C)	Downtown Theater	Commercial	
Auburn (C)	N. Division St. Bridge (2015)		
Auburn (C)	Public Safety Bldg		
Auburn (C)	Security for critical infrastructure		
Auburn (C)	Calamar – Auburn Woods – (2013)		110 units
Auburn (C)	CCC Dorms –(2013)	Residential	300-400 students
Auburn (C)	Vitale Subdivision – (2013)		52 units total
Auburn (C)	Mack Studios (2013),	Commercial	
Auburn (C)	Currier Plastics	Commercial	
Auburn (C)	Hammond & Irving	Commercial	
Auburn (C)	NUCOR	Commercial	
Auburn (C)	East Hill/John St Residential Rehab Project	Residential	20+
Auburn (C)	Cottage Cove		
Auburn (C)	Car Dealership on Grant Avenue	Commercial	
Auburn (C)	Franklin St. Water Line (2013)		
Auburn (C)	York Street Reconstruction Project (2013)		

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 this community. 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	N/A
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
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	N/A
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	N/A
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	N/A
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	N/A
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	N/A
Tornado(s) in Niles and Moravia	DR-1222 DR-1233	No	Summer 1998	N/A
Labor Day storm.	DR-1244	Yes - IA, PA	9/1998	N/A
USDA declared Drought (t40329).			8/1999	Genoa issues Emergency water restrictions
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	N/A
Ice storm	DR-1467	Yes - IA, PA	4/2003	3 deaths in Cayuga County.
NE blackout.	EM-3186	Yes - PA	8/23/2003	N/A
Snow emergency declared	EM-3195	Yes - PA	1/2004	N/A
Rain/Flooding	DR-1589	Yes - PA	4/2005	Flooding triggered by snow melt and rain.
Severe Storms and Flooding	DR 1650	No	June 26 2006 — July 1, 2006	N/A
Severe Storms and Flooding	DR 1670	No	November 16-17, 2006	N/A
April Nor'easter	DR 1692	No	April 18, 2007	N/A
Severe Storms and Flooding	DR 1710	No	June 19, 2007	N/A
Severe Storms and Flooding	DR 1857	No	August 9, 2009	N/A
Severe Storms and Flooding	DR 1993	No	April 26, 2011— May 8, 2011	N/A



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Type of Event	FEMA Disaster # (if applicable)	County Designated?	Date	Approximate Damage Assessment
Severe Storms and Flooding	EM 3328	No	August 26, 2011	N/A
Hurricane Irene	DR 4020	No	August 26, 2011— September 5, 2011	N/A
Severe Storms, Flooding, Tornadoes, and Straightline Winds	EM 3341	No	September 7-8, 2011	N/A
Remnants of Tropical Storm lee	DR 4031	No	September 7-11, 2011	
Buckeye Pipeline	N/A	No	September 20, 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 ^{a, c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
Flood	1% Annual Chance: \$1,773,446 0.2% Annual Chance: \$2,832,370	Frequent	33	High
Severe Storm	100-Year MRP: \$0 500-Year MRP: \$2,222 Annualized Loss: \$769	Frequent	18	Medium
Severe Winter Storm	1% of GBS: \$11,002,763 5% of GBS: \$55,013,817	Frequent	48	High
Transportation	Not available	Frequent	21	Medium
Ground Failure	Karst Exposure \$1,878,218,032 Moderate Incidence \$0 Moderate Susceptibility \$0	Occasional	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 it has moderate to limited planning, regulatory, administrative, technical, fiscal, 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 (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	Codes	Chapter 125 3/28/91
2) Zoning Ordinance	Y	Codes	Chapter 305 12/30/92
3) Subdivision Ordinance	Y	OPED	Chapter 225 3/28/91
4) NFIP Flood Damage Prevention Ordinance		Planning and Codes	
4a) Cumulative Substantial Damages		Planning and Codes	
4b) Freeboard		Planning and Codes	
5) Growth Management	Y	Planning Department	2010 Comprehensive Plan
6) Floodplain Management / Basin Plan		Codes	
7) Stormwater Management Plan/Ordinance	N		Follow DEC regulations
8) Comprehensive Plan / Master Plan/ General Plan	Y	OPED	1/21/10
9) Capital Improvements Plan	Y	OPED	NYSEM Article 5 8/30/12
10) Site Plan Review Requirements	Y	OPED	CH 305-13 7/10/97
11) Open Space Plan	N		
12) Stream Corridor Management Plan	N		
13) Watershed Management or Protection Plan	Y	NYS DOH/ City Water Dept.	NYS Health Code 1984
14) Economic Development Plan	Y	CEDA	11/11/11
15) Comprehensive Emergency Management Plan	Y	CEMO	12/23/03
16) Emergency Response Plan	Y	City of Auburn	2/2012
17) Post Disaster Recovery Plan		City of Auburn	Under Development
18) Post Disaster Recovery Ordinance			
19) Real Estate Disclosure Requirement	Y	Assessor	
20) Other: Mill St. Dam Security Plan		Municipal Utilities and Engineering Dept.	6/22/12
Mill St. Dam Security Vulnerability Annual Assessment	Y	Municipal Utilities and Engineering	Emergency Action Plan

Regulatory Tools (Codes, Ordinances., Plans)	Do you have this? (Y or N)	Enforcement Authority	Code Citation (Section, Paragraph, Page Number, Date of adoption)
Water System Security Vulnerability Annual Assessment	Y	Municipal Utilities	Emergency Action Plan

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	OPED and Engineering
2) Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	Code Enforcement- Building Construction City Engineering- Infrastructure
3) Planners or engineers with an understanding of natural hazards	Y	City Engineering
4) NFIP Floodplain Administrator	Y	Code Enforcement
5) Surveyor(s)	Y	City Engineering
6) Personnel skilled or trained in "GIS" applications	Y	OPED and Engineering; Limited Capability
7) Scientist familiar with natural hazards	N	
8) Emergency Manager	Y	City Fire Chief
9) Grant Writer(s)	Y	OPED
10) Staff with expertise/training in benefit/cost analysis	Y	City Engineering

E.3) Fiscal Capability

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

E.4) Community Classifications

Program	Classification	Date Classified
Community Rating System (CRS)		
Building Code Effectiveness Grading Schedule (BCEGS)		
Public Protection- ISO	2	2003
Storm Ready - CCEMO		
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 it’s vulnerability to the natural hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class one (1) being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule
- The ISO Mitigation online ISO’s Public Protection website at <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at <http://firewise.org/>

F. MITIGATION STRATEGY

F.1) Past Mitigation Actions/Status

The City has completed the following mitigation actions: Dam Project, Flood Plans, Dam Plans, Franklin St., Hoopes Park Bridge/Culvert, Vacant Building Ordinance Fire Inspection Program, Code Enforcement, Emergency Action Plan (EAP), Hazard Materials Plan, Comprehensive Plan, and Capitol Plan.

F.2) Hazard Vulnerabilities Identified

The City has identified the following as hazard vulnerabilities and/or mitigation actions needed: dam failure analysis, flood profile, hazardous materials, and critical facilities within flood zones.

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

- Cold Springs Brook, a tributary that flows to the Seneca River, has been identified as having flooding issues. After heavy rainfall events, the swell of the stream erodes the banks and causes significant damage. As the banks deteriorate, cropland and other property is lost. The predominant land use adjacent to the watercourse is agriculture and residential. Streambank erosion is a primary concern, particularly during heavy rain events or during the spring melt.
- Crane Brook, a tributary that flows to the Seneca River, has been identified as having erosion issues. After heavy rainfall events, the swell of the stream erodes the banks and causes significant damage. As the banks deteriorate, cropland and other property is lost. The predominant land use adjacent to the watercourse is agriculture and residential. Streambank erosion is a primary concern, particularly during heavy rain events or during the spring melt.

NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in 100-year Boundary (3)	# Policies in 500-Boundary (3)	# Policies Outside the 500-year Flood Hazard (3)
Auburn (C)	20	6	\$13,308	0	0	10	1	9

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 January 31, 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 31, 2012).
- (3) The policy locations used are based on the latitude and longitude provided by FEMA Region 2.

It is estimated that in the City of Auburn, 76 residents live within the 1% annual chance flood area (NFIP Special Flood Hazard Area). Of the municipality's total land area, 4.8% is located within the 1% annual chance flood area. \$12,812,150 (0.7%) of the municipality's general building stock replacement cost value (structure and contents) is located within the 1% annual chance flood area. There are 20 NFIP policies in the community and there are 10 policies located within the 1% annual chance flood area. FEMA has identified 0 Repetitive Loss (RL) including 0 Severe Repetitive Loss (SRL) properties in the municipality.

HAZUS-MH estimates that for a 1% annual chance flood, \$1,773,446 (0.1%) of the municipality's general building stock replacement cost value (structure and contents) will be damaged and an estimated 455 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		
Substation (Clark St)	Auburn (C)	Electric Substation/ HAZMAT	X			
North Division Street Dam	Auburn (C)	Electric Power	X			
Mill Street Dam	Auburn (C)	Electric Power	X			
Penske Truck Leasing Co., LP	Auburn (C)	HAZMAT	X			
Xylem Inc Water Systems U.S.A., LLC	Auburn (C)	HAZMAT		X		
City of Auburn Sewerage Facility	Auburn (C)	WWTF	X			
City of Auburn Mill St	Auburn (C)	WWTF	X			
City of Auburn Loop Road	Auburn (C)	WWTF		X		
City of Auburn Dunn & McCarthy	Auburn (C)	WWTF	X			
John Walsh Blvd (Walmart)	Auburn (C)	WW Pump Station	X			
Lower Pump Station*	Auburn (C)	Pump Station	X			
Police & Fire Station*	Auburn (C)	Public Safety	X			
Water Filtration*	Auburn (C)	Filtration Plan	X			
Upper Pump Station (Intake)	Owasco (T)	Potable Water Pump Station	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.

*Added by City of Auburn.

The Mill Street Dam break inundation area was used to estimate exposure and vulnerability to the City should an incident occur. In summary, there are 79 buildings located within the inundation area, the majority of which are residential (28) and commercial (46) buildings with the remainder in the industrial and government sector.

In terms of population, all persons occupying structures in the dam inundation area are exposed. However, the time of day also exposes different sectors of the community to the hazard. HAZUS considers the residential occupancy at its maximum at 2:00 a.m. Using the methodology described in the Impact to Population subsection above, there are approximately 66 residents located in the inundation zone (number of residential buildings multiplied by 2.37 people per household). HAZUS considers the education, commercial and industrial sectors are considered at their maximum at 2:00 p.m. Therefore, the

population that occupies the commercial, industrial and government buildings is more vulnerable at this time. Whether directly or indirectly impacted, the City will have to deal with the consequences of a dam break to some degree. Business interruption could keep people from working, road closures could isolate populations, and loss of functions of utilities could impact populations that suffered no direct damage from an event itself.

Based on the locations provided by Cayuga County GIS, the Auburn Fire Department #1, three electric substations (Clark Street, North Green Street and North Division Street Dam), the City of Auburn CSO (wastewater) and a portion of the rail line and roadways are located in the inundation area.

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
AB-1	The Cayuga SWCD proposes to complete bank stabilization as needed along the Cold Springs 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. Enhancement of the floodplain will also lead to a reduction of damage during a major storm event. Portions of the stream are also prone to ice jams. These cause flooding and an increase in erosion due to bed and bank scour, as well as having the potential for causing significant property damage. Significant losses to valuable agricultural land, forestland and property would be mitigated.	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
AB-2	The Cayuga SWCD proposes to complete bank stabilization as needed along the Crane 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. Enhancement of the floodplain will also lead to a reduction of damage during a major storm event. Significant losses to	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

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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
	valuable agricultural land, forestland and property would be mitigated.										
AB-3	<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"> <input type="checkbox"/> Links on City Website. <input type="checkbox"/> FEMA flyers in water bills <input type="checkbox"/> Use email notification 	N/A	All Hazards	<p>2-1 2-2 2-3 2-4 2-5</p>	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
AB-4	Incorporate ordinances and/or zoning restrictions to control and mitigate future development in hazard areas, specifically as identified in Section I. (Specifically updated zoning code.)	N/A	All Hazards	<p>1-6 4-3</p>	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	PR
AB-5	Improve communication systems.	N/A	All Hazards	<p>3-3 3-7</p>	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	ES PR
AB-6	<p>Develop programs/procedures to capture and archive loss data from events. Examples include:</p> <ul style="list-style-type: none"> • Record location and length of roadway closures; • Develop a database of residential and commercial property damage, including permit history for such repairs; • High water marks, perhaps painting phone poles with high water marks 	N/A	All Hazards	<p>1-3 1-4</p>	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	PR



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	and or regulatory Base Flood Elevations (BFEs). <ul style="list-style-type: none"> Explore new software to link codes and fire 										
AB-7	Obtain and install backup power sources at critical facilities. <ul style="list-style-type: none"> DPW City Hall 	N/A	All Hazards	3-3 3-5	Municipality with support from County, NYSOEM and FEMA	Medium	Medium	Municipal Budget	Short	Medium	ES
AB-8	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: <ul style="list-style-type: none"> Support the performance of enhanced risk and vulnerability assessments for hazards of concern. Support state, county and local planning efforts including mitigation (including updates to the State HMP), comprehensive emergency management, debris management, and land use. Improved structural and facility inventories could incorporate flood, wind and seismic-specific parameters	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



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	(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. <ul style="list-style-type: none"> • CC HazMat Plan • LEPC 										
AB-9	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
AB-10	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
AB-11	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
AB-12	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	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



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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
	individuals (e.g. code officials, floodplain managers, engineers).										
AB-13	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
AB-14	<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.</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> <p>Properties currently identified for relocation or elevation include the City Public Safety Building.</p>	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
AB-15	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
AB-16	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



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
AB-17	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 4-3	Municipal Code Enforcement	Medium	Low	Municipal Budget	Short	H	PR

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)
AB-1	4	H	H	Y	Y	N	M
AB-2	4	H	H	Y	Y	N	M
AB-3	5	M	M	Y	Y	N	H
AB-4	2	M	M	Y	Y	Y	M
AB-5	2	M	M	Y	Y	Y	M
AB-6	2	M	M	Y	Y	Y	M
AB-7	2	M	M	Y	Y	Y	M
AB-8	3	M	M	Y	Y	N	M
AB-9	1	L	L	Y	N	Y	H
AB-10	4	M	L	Y	N	Y	H
AB-11	1	M	M	Y	N	Y	M
AB-12	2	M	M	Y	Y	N	M
AB-13	2	H	L	Y	Y	N	H
AB-14	2	H	H	Y	Y	N	M
AB-15	3	M	L	Y	N	Y	M
AB-16	2	M	L	Y	N	Y	H
AB-17	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.

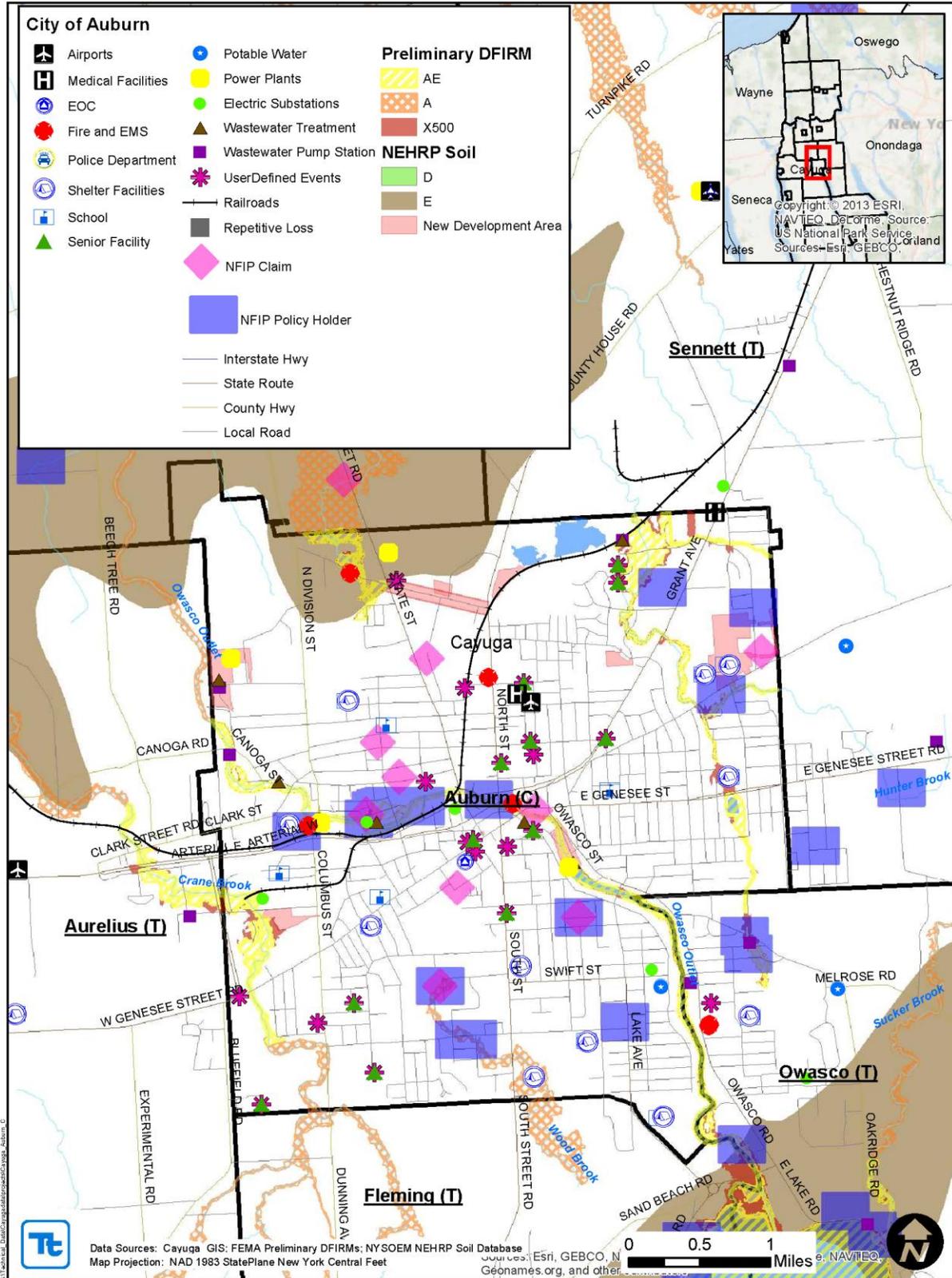
H.) FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY

None 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.

SECTION 9.2: CITY OF AUBURN



J.) ADDITIONAL COMMENTS

No additional comments at this time.

K.) NFIP ADMINISTRATOR INPUT

1. Planning and Regulatory

The City of Auburn joined the NFIP on March 2, 1981, 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 City of Auburn is proactive in floodplain management with ordinances meeting minimum requirements.

2. Administrative and Technical Staff

The City of Auburn has identified personnel to manage and uphold the City of Auburn's compliance with the NFIP. Dedicated staff include: Brian Hicks , Code Enforcement Official and NFIP Administrator.

3. Financial

As of July, 2013, there are 20 policies enforced within the City of Auburn. Of the 20 insurance policies, 10 are within the Special Flood Hazard Area (SFHA), and 10 are located outside the SFHA. As of July, 2013, there have been zero repetitive loss properties and zero severe repetitive loss properties within the City of Auburn.

4. Educational

None at this time.

5. Actions to Strengthen the Program

None at this time.