

9.23 CITY OF SARATOGA SPRINGS

This section presents the jurisdictional annex for the City of Saratoga Springs.

A.) HAZARD MITIGATION PLAN POINT OF CONTACT

Primary Point of Contact	Alternate Point of Contact
Marilyn Rivers, Director of Risk and Safety/Safety Compliance Officer City of Saratoga Springs 474 Broadway Saratoga Springs, NY 12866 518-587-3550 ext. 2612 marilyn.rivers@saratoga-springs.org	Mayor Scott Johnson City of Saratoga Springs 474 Broadway Saratoga Springs, NY 12866 518-587-3550 x2520 scott.johnson@saratoga-springs.org

B.) CITY PROFILE

Population

28,782 (estimated 2007 U.S. Census)

Location

The City of Saratoga Springs is centrally located in Saratoga County. The city is bounded on the north by the towns of Greenfield and Wilton, on the east by Saratoga, on the south by Malta and on the west by Milton. Saratoga Springs is the principal city in the town. It is situated in the northern part of the town, just west of the center. Stafford’s Bridge, Eddy’s Corners, Ashley’s Corners, Ellis Corners, Cady’s Hill and The Geysers are the principal hamlets or localities in the town, aside from the City of Saratoga Springs. Ellis Corners and Cady’s Hill in recent years have become known as The Geysers. The Adirondack Northway (Interstate 87) and US Route 9 pass alongside and through the city. New York State Route 29, New York State Route 50, New York State Route 9N, and New York State Route 9P lead into Saratoga Springs. Saratoga Lake is southeast of the City.

According to the U.S. Census Bureau, the City has a total area of 29.1 square miles (75.3 km²), with 28.4 square miles (73.6 km²) of it land and 0.6 square miles (1.6 km²) of it (2.17-percent) water.

Climate

Saratoga County, with all its municipalities, generally experiences seasonable weather patterns characteristic of the northeastern U.S. Warm summers are typically experienced, with occasional high temperatures and humidity. Midsummer temperatures typically range from 60°F to 83°F (Fahrenheit). The winters of Saratoga County are long and cold, with temperatures typically ranging from 12°F to 30°F (Fahrenheit). During the winter, temperatures are cooler than the temperatures in areas located near large bodies of water. Snow accumulates to an average depth of 68.7 inches each year.

Brief History

According to historical accounts, Sir William Johnson, British soldier and a hero of the French and Indian Wars, was brought to what would become the City by native friends in 1767 to treat war wounds at a spring thought to have medicinal properties. The spring is now known as High Rock Spring, and may be visited today. The first permanent settler arrived around 1776, and a tourist trade swiftly grew, with hotels being constructed by such Revolutionary War luminaries as Gideon Putnam. Saratoga Springs was



established as a town in 1819 from a western portion of the Town of Saratoga. Its principal community was incorporated as a village in 1826 and the entire region became a City in 1915.

Since the 19th century, Saratoga's fame rests principally upon its wonderful mineral springs and magnificent hotels, some of which for many years have ranked among the most elegant, in appointment and service, in the world. The City is also most famous for the Saratoga Race Course which opened on August 3, 1863. Founded by John Hunter and William R. Travers, it is the oldest continuously-operating Thoroughbred track in the United States. Each year tens of thousands of tourists flock to Saratoga Springs for the racing season. The Travers Race, named after William R. Travers, is often called the fourth race of the nation's Triple Crown Horse Race series.

Governing Body Format

The Saratoga Springs Charter specifies a "Commission" form of city government. The city government consists of the Mayor, Commissioner of Public Safety, Commissioner of Public Works, Commissioner of Accounts, Commissioner of Finance, and two elected representatives that serve on the Saratoga County Board of Supervisors. Each of the four commissioners and the Mayor govern their own stanchions of responsibility according to the City Charter.

The Commissioner of Public Works is responsible for the City's water and sewer supply, its streets and roadways, City engineering and has the responsibility for the maintenance of City owned buildings.

The Commissioner of Public Safety holds responsibility for fire and police, code administration, and traffic management.

The Commissioner of Finance is responsible for employee benefits, City finance, information technology and the City's Comprehensive Budget.

The Commissioner of Accounts acts as the City's Purchasing Agent, City Clerk, Assessor of Real Property, City's Records Agent, and Risk and Safety Officer.

The Mayor holds the responsibility for leading the City Council in session and has responsibility for Building Department, Planning and Economic Development, Recreation, City Attorney, Human Resources, and Civil Service activities.

Growth/Development Trends

New constructions of commercial buildings that are under construction within the City include:

Name	Type Business	Type Development	Estimated Value
Saratoga Hotel	Hotel and Conference Center	Rehabilitation	\$11,000,000
Preservation Hall	Commercial	Addition	\$3,000,000
Hampton Inn and Condos	Hotel/Office/Retail/Restaurant	New Construction	\$35,000,000
The Lexington Club Hotel	Hotel/Residential	New Construction	\$30,000,000
Broadway Mixed Use @ Park Place	Retail/Office/Residential	New Construction	\$30,000,000
Skidmore College Music Center	Institutional	New Construction	\$32,000,000
Spa Hotel II - Banquet & Restaurant	Restaurant	New Construction	\$1,500,000
Lofts at 54 Phila	Retail/Restaurant	New Construction	\$6,200,000
West Avenue Commons @ 2 West Avenue	Retail/Office/Residential	New Construction	\$10,800,000
Skidmore North Hall	Institutional	Addition	\$91,500
Fasig Tipton	Horse Sales Facility	Addition/Renovation	\$15,000,000
Saratoga Hospital Emergency Dept	Medical	Addition	\$18,600,000
Saratoga Indoor Recreation Center	Recreation	New Construction	\$6,000,000
Old Saratoga Brewing Company	Distribution	Addition	\$550,000
SCA Properties	Medical/Professional	Addition	Unknown

New commercial buildings that are approved, but not yet under construction within the City include:

Name	Type Business	Type Development	Estimated Value
Excelsior Park Phase 1A	Office/Retail	New Construction	\$4,000,000
Stewarts' Mixed Use Project	Office/Residential	New Construction	\$7,200,000
Congress Park Centre Bldg. 5	Retail/Office/Residential	New Construction	\$20,000,000
Canfield Medical Arts	Office	New Construction	\$2,500,000
Pavilion Place	Retail/Office/Residential	New Construction	\$7,500,000
At Home in Saratoga	Retail/Office	Rehabilitation	Unknown
Allerdice Glass and Aluminum	Retail/Office	Addition	Unknown
Saratoga Springs City Center	Commercial	Addition	\$17,000,000
Transitional Services	Institutional	Addition	Unknown
Best Western Inn	Hotel	Addition (pool)	Unknown
Enterprise Rental Car	Office	New Construction	Unknown
Pallette Stone Storage Bldg	Industrial	New Construction	Unknown
Arcadia Senior Housing	Residential	New Construction	Unknown
Kwang Pai Mixed Use	Retail/Office/Residential	New Construction/Addition	Unknown

New commercial buildings that are planned, but do not yet have all development approvals at this time include:

Name	Type Business	Type Development	Estimated Value
129-135 Maple Ave	Residential	New Construction	\$7,500,000
McDonald's Rebuild	Retail	Rehabilitation	Unknown
Weibel Avenue Mixed Use Project	Retail/Office	New Construction	\$13,000,000

There are seven ‘Special Development Areas’ identified in the Saratoga Springs Comprehensive Plan (2001). As described in the Plan, these areas are ‘to ensure that new development is designed and constructed with greater sensitivity to and compatibility with adjacent man-made features and the natural environment and that it is consistent with the Comprehensive Plan vision for that area.’ Below is a description of the new development encouraged within each area:

- **Special Development Area – 1 (Downtown)** is the existing “Central Business District” consisting of the City’s primary retail and service area. ‘Mixed-use in-fill development’ is encouraged in this area.
- **Special Development Area – 2 (Excelsior Ave - inner area)** is the inner extent of Excelsior Ave south of the Route 50 arterial from the former Van Raalte mill to the brewery and Quality Hardware. ‘The intent is to maximize the economic and development potential of this area adjacent to the city core, encourage improvement in certain areas through infill/replacement and redevelopment, protect and enhance the City’s entranceway along NYS Route 50, and promote a mixture of uses compatible with surrounding residential neighborhoods.’
- **Special Development Area – 3 (Excelsior Ave - outer area)** is the outer portion of the Excelsior Ave area from Veteran’s Way to the Northway and Exit 15, including the north side of Route 50 and the Spring Run area. ‘The intent is to allow for reasoned and compatible expansion of existing businesses, and to allow flexibility in development options within this area while protecting and enhancing the City’s entranceway along NYS Route 50 and surrounding neighborhoods.’
- **Special Development Area – 4 (Weibel Ave - northern area)** is the upper portion of Weibel Ave area east of Exit 15, including the municipal and institutional lands, south to the former railroad right of way. ‘This area provides an opportunity for light industrial, mixed residential and commercial development with limited access and internal circulation.’
- **Special Development Area – 5 (West Ave - northern area)** is located along West Ave which runs north and south from just north of Church Street to south of West Circular Street. This area extends west to include the railroad station and areas along Washington and Church Streets, and east along Washington Street. Development recommended for this area is commercial development complementary to downtown. ‘The “West Avenue Concept Development Plan & Site Design Guidelines” prepared by the Saratoga Springs Planning Board describes the vision for this area as a neighborhood service and shopping area mixed with medium and high density residential....’
- **Special Development Area – 6 (West Ave - southern area)** is located to the east of lower West Ave between the juncture with Route 50 in the south and Congress Ave to the north. ‘Mixed institutional, light industrial, high-density residential and recreational land uses would be encouraged...’
- **Special Development Area – 7 (“Northern” South Broadway)** includes the upper portion of South Broadway from Circular to Fenlon Streets including adjacent portions of Ballston Ave. ‘The intent is to maximize the economic and development potential of this area adjacent to the city core, enhance a

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major entranceway into the City, and promote a mixture of uses compatible with surrounding residential neighborhoods.’ *The following table depicts new and potential development in the City:*

Property Name	Type	Number of Structures	Address	Block and Lot	Description
Saratoga Hotel	Commercial	1	534 Broadway	165.52-1-78	Commercial Hotel
Preservation Hall	Religious	1	25 Washington Street	165.67-1-13	Religious Meeting Hall
Hampton Inn/ Condos	Commercial	2	25 Lake Avenue	165.52-4-46.1	Hotel/Residential Condos
The Lexington Club Hotel	Mixed Use	1	Marion Avenue	166.30-2-1	Commercial Vacancy w/improvements
Broadway Mixed Use Building at Park Place	Commercial	1	262 Broadway	165.75-2-2	Commercial
Skidmore College Music Center	College	1	Glen Mitchell Road	152.-1-3	College
Spa Hotel II Banquet and Restaurant	Hotel	1	11 Excelsior Avenue	166.29-2-8	Hotel
Lofts at 54 Phila	Commercial	1	54 Phila Street	165.68-1-55	Commercial
2 West Avenue Condos	Mixed Use	1	West Avenue	165.10-1-21	Mixed Use Residential
Skidmore North Hall	College	1	Glen Mitchell Road	152.-1-3	College
Fasig Tipton Horse Sales	Riding Stable	1	251 East Avenue	166.70-1-1	Riding Stable Sales Facility
Saratoga Hospital Emergency Department	Hospital	1	211 Church Street	165.49-2-2	Hospital Renovation
Saratoga Indoor Recreation Center	Recreation	1	Vanderbilt Avenue	178.28-1-2	Recreation
Old Saratoga Brewing Company	Commercial	1	131 Excelsior Avenue	166.30-1-3	Commercial Warehouse
SCA Properties Medical & Professional Building	Professional	1	6 Care Lane	165.10-2-3	Professional Medical
Excelsior Park Phase IA	Commercial	1	Excelsior Avenue	166.-1-5.12	Commercial
Stewarts Mixed Use	Mixed Use	1	Excelsior Avenue	166.30-1-2	Commercial
Congress Park Center Building 5	Mixed Use	1	327-341 Broadway	165.67-1-23	Mixed Use
Canfield Medical Arts	Professional	1	18 Canfield Street		Professional Medical
Pavilion Place	Commercial	1	30 Lake Avenue	165.60-1-21	Commercial
At Home in Saratoga	Residential	1	79 Henry Street	165.60-1-74.1	Residential
Allerdice Glass and Aluminum	Warehouse	1	120 Excelsior Avenue	166.-4-3.11	Warehouse
Saratoga Springs City Center	Commercial	1	Maple Avenue	165.52-1-75.1	Commercial
Transitional Services	Office	1	127 Union Street	178.26-1-48.2	Office
Best Western Inn	Motel	1	3291 US Rt 9	191.-1-56.1	Motel
Washington Mixed Use Retail/Office/Residential	Mixed Use	1	58 Washington Street	165.67-1-57.2	Mixed Use
Enterprise Rental Car	Commercial	1	2214 Route 50 South	190.-2-7	Commercial
Pallette Stone Storage	Mine/Quarry	1	Brook Road	164.-1-22	Mine/Quarry
Arcadia Senior Housing	Residential	1	Seward Street	165.7-3-24	Residential
Kwang Pai Mixed Use	Commercial	1	Gick Road Rear	153.-1-1.11	Commercial

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Property Name	Type	Number of Structures	Address	Block and Lot	Description
129-135 Maple Ave	Residential	1	129 Maple Avenue	165.44-2-1	Residential
McDonald's Rebuild	Commercial	1	197 South Broadway	165.83-1-7	Commercial
Weibel Ave Mixed Use	Commercial	1	Weibel Avenue	166.-2-4	Commercial

C.) NATURAL HAZARD EVENT HISTORY SPECIFIC TO THE CITY

Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
Blizzard	Not applicable	March, 1888	58 inches of snow fell in Saratoga Springs
Flood	Not applicable	March, 1913	Not available
Extreme Cold	Not applicable	February, 1943	Not available
Extreme Cold	Not applicable	December, 1955	Not available
Extreme Cold	Not applicable	January, 1957	Not available
Extreme Cold	Not applicable	December, 1960	Not available
Snowstorm and Extreme Cold	Not applicable	February, 1961	\$81,000 (countywide)
Extreme Cold	Not applicable	February, 1967	Not available
Extreme Cold	Not applicable	January, 1968	Not available
Snowstorm	Not applicable	November, 1971	Not available
Flood: Tropical Storm	Not applicable	June, 1972	\$1,600,000 (countywide)
Flood	Not applicable	March, 1977	Not available
Extreme Cold	Not applicable	February, 1978	Not available
Extreme Cold	Not applicable	February, 1979	Not available
Extreme Cold	Not applicable	January, 1981	Not available
Snowstorm	Not applicable	January, 1983	\$238,000 (countywide)
Snowstorm	Not applicable	April, 1983	\$238,000 (countywide)
Snowstorm	Not applicable	December, 1983	\$179,000 (countywide)
Snowstorm	Not applicable	February, 1984	\$238,000 (countywide)
Flood	Not applicable	May, 1984	\$2,400,000 (countywide)
Flood	Not applicable	March, 1986	\$1,400,000 (countywide)
Flood	Not applicable	August, 1986	\$505,000 (countywide)
Extreme Cold	Not applicable	February, 1987	Not available
Flood	Not applicable	April, 1987	\$2,100,000 property damage; \$208,000 crop damage; 3 injuries (countywide)
Severe Winter Storm	DR-801	October, 1987	Not available
Extreme Cold	Not applicable	December, 1989	Not available
Snowstorm	Not applicable	February, 1990	\$545,000 (countywide)
Freezing Rain	Not applicable	March, 1991	\$833,000 (countywide)
Extreme Cold	Not applicable	February, 1993	Not available
Blizzard and Extreme Cold	EM-3107	March, 1993	Not available

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Type of Event	FEMA Disaster # (if applicable)	Date	Preliminary Damage Assessment
Extreme Cold	Not applicable	January, 1994	Not available
Thunderstorm / Winds	Not applicable	July, 1994	\$5,000,000 (countywide)
Snowstorm	Not applicable	February, 1995	\$500,000 (countywide)
Snowstorm	Not applicable	March, 1995	\$100,000 (countywide)
Severe Storm and Flooding	DR-1095	January, 1996	\$10,000,000 (countywide)
Flood	Not applicable	April, 1996	\$40,000 (countywide)
Severe Storms and Flooding	Not applicable	November, 1996	\$404,000 (countywide)
Snowstorm	Not applicable	March / April, 1997	\$709,000 (countywide)
Thunderstorm / Wind	Not applicable	July, 1997	\$120,000 (Gurn Springs)
Severe Winter Storm and Flooding	DR-1196	January, 1998	Between \$125,000 and \$745,000 (countywide)
Snowstorm	Not applicable	December, 1998	Not available
Severe Storms and Flooding (Hurricane Floyd)	DR-1295	September, 1999	Not available
Flood	Not applicable	February, 2000	\$63,000 (countywide)
Severe Storms	Not applicable	May/September, 2000	\$80,000 (countywide)
Flood	Not applicable	December, 2000	\$190,000 (countywide)
Snowstorm	Not applicable	March, 2001	Not available
Flood	Not applicable	May, 2002	Not available
Snowstorm	EM-3173	December 2002 / January 2003	Not available
Severe Storms, Tornado and Flooding	Not applicable	July / August 2003	Between \$100,000 and \$160,000 (countywide)
Snowstorm	Not applicable	December, 2003	Not available
Severe Storms and Flooding	DR-1534	May / June 2004	\$14,000,000 (statewide)
Flood	Not applicable	July, 2005	Roads underwater
Ice Storm	Not Applicable	February 16, 2006	Extensive Power Outages
Beaver Dam Flooding	Not applicable	May, 2006	Homes threatened
Severe Storms and Flooding	Not applicable	June/July, 2006	Power outages
Ice Storm	Not applicable	January, 2007	Power outages
Snowstorm (Valentine's Day Storm)	Not applicable	February, 2007	Not available

Number of FEMA Identified Repetitive Flood Loss Properties: 0

Number of FEMA Identified Severe Repetitive Flood Loss Properties: 0

Source: FEMA Region 2, November 2008



D.) NATURAL HAZARD RISK/VULNERABILITY RISK RANKING (CITY ACCEPTS COUNTY’S DATA PROVIDED IN EARLIER EMAIL)

Rank #	Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard ^{a,c}	Probability of Occurrence	Risk Ranking Score (Probability x Impact)	Hazard Ranking ^b
3	Earthquake	\$120,874,635	Rare	11	Low
2	Flood (riverine, flash, coastal and urban flooding)	\$20,503,000	Frequent	51	High
4	Ground Failure	Not available	Rare	6	Low
2	Severe Storm (windstorms, thunderstorms, hail, lightning and tornados)	\$3,179,557	Frequent	51	High
1	Severe Winter Storm (heavy snow, blizzards, ice storms)	\$138,362,950	Frequent	54	High

- a. Building damage ratio estimates based on FEMA 386-2 (August 2001)
- b. High = Total hazard priority risk ranking score of 31 and above
Medium = Total hazard priority risk ranking of 16-30
Low = Total hazard risk ranking below 15
- c. The valuation of general building stock and loss estimates determined in Saratoga County were based on the default general building stock database provided in HAZUS-MH MR3 (RSMeans 2006).
- d. Severe storm and severe winter storm hazard 500-year MRP loss estimate is structural value only; does not include the value of contents. For severe winter storm, the loss estimate is 5% of total general building stock value.
- e. Loss estimates for both structure and contents (500-year MRP for the flood hazard and 2,500-year MRP for the earthquake hazard).
- f. 0% of the City's general building stock is located within the landslide hazard area.

E.) CAPABILITY ASSESSMENT

This section identifies the following capabilities of the local jurisdiction:

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

E.1) Legal and Regulatory Capability

Regulatory Tools (Codes, Ordinances., Plans)	Local Authority (Y or N)	Prohibitions (State or Federal) (Y or N)	Higher Jurisdictional Authority (Y or N)	State Mandated (Y or N)	Code Citation (Section, Paragraph, Page Number, date of adoption)
1) Building Code	Y	N	Y	N	Ch. 118, Building Code Administration, Last Am. 2007
2) Zoning Ordinance	Y	N	N	N	Zoning Ordinance, Separate from City Code Book, Last Am. 2009
3) Subdivision Ordinance	Y	N	N	N	Subdivision Regulations, Last Am. 2005
4) NFIP Flood Damage Prevention Ordinance (if you are in the NFIP, you must have this.)	Y	Y	Y	Y	Ch. 120, City Ord. Floodplain Damage Prevention, Last Am. 1997
5) Growth Management	Y	N	N	N	Part of Master Plan
6) Floodplain Management / Basin Plan	Y	Y	Y	N	Ch. 120, City Ord. Floodplain Damage Prevention, Last Am. 1997
7) Stormwater Management Plan/Ordinance	Y	N	Y	Y	Ch. 138 Stormwater Management, Last Am. 2008
8) Comprehensive Plan / Master Plan/ General Plan	Y	N	N	N	Comprehensive Plan Last Rev. 2001
9) Capital Improvements Plan	Y	N	N	N	Capital Budget & Amendments Coordinated Through Mayor's Office, Six Year Plan, Reviewed and Updated Annually
10) Site Plan Review Requirements	Y	Y	Y	N	Last Amendments made 2008
11) Open Space Plan	Y	N	N	N	Standalone Document Revised 2002; Incorporated into Comprehensive Plan
12) Economic Development Plan	Y	N	N	N	Part of Comprehensive Plan
13) Emergency Response Plan	Y	N	Y	Y	CEMP Managed Through Public Safety, Reviewed and Revised at Least Annually
14) Post Disaster Recovery Plan	N	N	N	N	City Safety Committee. Completion anticipated 1 st Quarter 2010
15) Post Disaster Recovery Ordinance	N	N	N	N	None anticipated
16) Real Estate Disclosure req.	N	N	N	N	None anticipated
17) Other [Special Purpose Ordinances (i.e., critical or sensitive areas)]	N	N	N	N	None anticipated

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	Administrator of Planning & Economic Development, City Engineer
2) Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	City Engineer's Office, Building Inspector, Code Enforcement
3) Planners or engineers with an understanding of natural hazards	Y	Administrator of Planning & Economic Development, City Engineer
4) NFIP Floodplain Administrator (if you are in the NFIP, you must have one.)	Y	Paul Male – City Engineer
5) Surveyor(s)	Y	City Engineer's Office
6) Personnel skilled or trained in "GIS" applications	Y	City Engineer's Office
7) Scientist familiar with natural hazards in the City of Saratoga Springs.	N	Skidmore College Science Department
8) Emergency Manager	Y	Public Safety in Coordination with City Council and Risk and Safety Manager
9) Grant Writer(s)	Y	Administrator of Planning and Economic Development; Accounts Department Records Retention Coordinator
10) Staff with expertise or training in benefit/cost analysis	Y	City Engineer's Office

E.3) Fiscal Capability

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

E.4) Community Classifications (City accepts County's Provision of Data)

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

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.) PROPOSED HAZARD MITIGATION INITIATIVES

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead Agency	Support agencies	Estimated Cost	Sources of Funding	Timeline
CSS-1a	Where appropriate, support retrofitting of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for retrofitting based on cost-effectiveness versus relocation. Where retrofitting is determined to be a viable option, consider implementation of that action based on available funding.	Existing	Flood, Severe Storm	1, 2, 3, 5	1-1, 1-2, 1-3, 2-2, 2-3, 2-4, 3-1, 3-5	Municipality (via NFIP Floodplain Administrator)	SEMO, FEMA	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Long-term DOF
CSS-1b	Where appropriate, support purchase, or relocation of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for relocation based on cost-effectiveness versus retrofitting. Where relocation is determined to be a viable option, consider implementation of that action based on	Existing	Flood, Severe Storm	1, 2, 3, 5	1-1, 1-2, 1-3, 2-2, 2-3, 2-4, 3-1, 3-5	Municipality (via NFIP Floodplain Administrator)	SEMO, FEMA	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Long-term DOF

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Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead Agency	Support agencies	Estimated Cost	Sources of Funding	Timeline
	available funding.									
CSS-2	Consider participation in incentive-based programs such as CRS.	New & Existing	Flood	1, 2, 5	1-1, 1-3, 1-6, 2-1, 2-2, 2-3, 2-4, 5-2	Municipality (via NFIP Floodplain Administrator)	SEMO, ISO, FEMA	Low - Medium	Local Budget	Short
CSS-3	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0	New & Existing	All Hazards	1 through 5	All	Municipality (via mitigation planning point of contacts)	County (through Mitigation Planning Coordinator), SEMO	Low – High (for 5-year update)	Local Budget, possibly FEMA Mitigation Grant Funding for 5-year update	Ongoing
CSS-4	Strive to maintain compliance with, and good-standing in the National Flood Insurance program.	New & Existing	Flood	1, 2, 4	1-1, 1-2, 1-3, 1-8, 2-2, 2-3, 2-4, 4-1, 4-2, 4-3, 4-4	Municipality (via NFIP Floodplain Administrator)	SEMO, ISO, FEMA	Low - Medium	Local Budget	Ongoing
CSS-5	Continue to develop, enhance, and implement existing emergency plans.	New & Existing	All Hazards	1, 3	1-1, 1-7, 3-2, 3-4, 3-5	Municipality	County Emergency Management, SEMO	Low - Medium	Local Budget	Ongoing
CSS-6	Create/enhance/ maintain mutual aid agreements with neighboring communities for continuity of operations.	New & Existing	All Hazards	3, 5	3-4, 5-1, 5-3	Municipality	Surrounding municipalities and County	Low - Medium	Local Budget	Ongoing
CSS-7	Support County-wide initiatives identified in Section 9.1 of the County Annex.	New & Existing	All Hazards	1 through 5	All	Municipality	County and Regional agencies (as appropriate for initiative)	Low - High	Existing programs and grant funding where applicable	Ongoing – Long-term depending on initiative
CSS-8	Upgrade and increase the capacity of the current Stormwater collection system such that there will be a net reduction in the flood risk caused by	Existing	Flood	1, 3	1-1, 1-5, 1-9, 3-6	Municipality	Regional agencies as appropriate	Varies per project – project specific	Local Capital Budget	Ongoing as monies made available



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Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead Agency	Support agencies	Estimated Cost	Sources of Funding	Timeline
	Stormwater impacts.									
CSS-9	Establish and maintain Stormwater maintenance program.	Existing per regulations	Flood	1, 3	1-1, 1-5, 1-9, 3-6	Municipality	Regional agencies as appropriate	Varies project – project specific	Local Capital Budget	Ongoing as monies made available
CSS-10	Move power, telephone and cable utility wiring underground for critical City infrastructure.	Mandatory for new construction - correction of existing	All Hazards	1, 3	1-1, 1-3, 1-6, 1-8, 3-4, 3-6	Municipality	Regional agencies as appropriate	Varies per project – project specific	Local Capital Budget	Ongoing as monies made available
CSS-11	Enhance interoperability communications between fire, police, EMS, DPW and emergency management.	New and Existing	All Hazards Man-made and Otherwise	1, 3, 5	1-1, 1-6, 3-3, 3-4, 3-5, 5-1, 5-2	Municipality	Federal, State and Regional Agency Coordination	Currently being examined for cost	Federal, State, Regional and Local monies as available	Ongoing as monies made available
CSS-12	Purchase generator for the water treatment plant to allow City to continue to provide potable water to City and surrounding community.	Existing	All Hazards	1, 3	1-1, 3-3, 3-4, 3-6	Municipality	Regional coordination as appropriate	Project completed by County	Federal, State, Regional and Local monies as available	Completed
CSS-13	MIS Hazardous Waste Mitigation Program per state and federal guidelines Ongoing per federal and state regulatory agency mandates.	New and Existing	Hazardous Waste	1, 3-6	1-1, 3-6	NYS DEC	Regional coordination as appropriate	Costs pending	Municipality	Ongoing
CSS-14	Identify storm water system rehabilitation needs and areas for new storm system development including culvert replacements and enhanced drainage systems.	New and Existing	Flood	1, 3	1-1, 1-5, 1-9, 3-6	Municipality	Regional and Private Sector coordination as appropriate	Costs have varied per project and are specific to geology and topography	Municipality	Ongoing



SECTION 9.23: CITY OF SARATOGA SPRINGS

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead Agency	Support agencies	Estimated Cost	Sources of Funding	Timeline
	City has identified area surrounding Saratoga Harness and Flat Tracks and area of North Broadway as High Risk Storm Water Disaster Areas due to topography and geology of these sites within City.									
CSS-15	Participate in the County's ongoing GIS initiative. Currently, the City is examining and mapping all new and existing electrical, sanitary sewer, water and traffic conduits with GPS Coordinate Systems.	New and Existing	All Hazards	1, 3, 5	1-4, 1-6, 3-2, 3-4, 5-2	Municipality	Regional and Private Sector coordination as appropriate	Project specific. Existing resources utilized budget	Municipality	Ongoing
CSS-16	Support/enhance Building and/or Flood code enforcement programs at the local level public education and awareness of current codes. City has developed and is in the process of expanding public awareness programs via written and electronic means.	New and Existing	Flood	2, 5	2-2, 2-4, 2-5, 5-3	Municipality	Federal, state and regional and private sector coordination as needed	Project specific	Federal, State, Regional & Municipal Authorities	Ongoing
CSS-17	Vegetation Management: Trim trees and vegetation in the City right-of-ways to mitigate potential power loss in storm management	New and Existing	Wind and Severe Storm	1, 3	1-1, 3-4, 3-6	Municipality	Regional and Private Sector coordination as needed	Project specific	Federal, State, Regional & Municipal Authorities	Ongoing
CSS-18	Create/update the Emergency Action Plans for all dams located within	Existing	Flood	1, 3	1-1, 1-6, 1-7, 3-1, 3-2, 3-4	Municipality	Watershed districts (if applicable);	Medium to Low	FEMA HMA	DOF



SECTION 9.23: CITY OF SARATOGA SPRINGS

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead Agency	Support agencies	Estimated Cost	Sources of Funding	Timeline
	the municipality.						neighboring municipalities; County (if applicable); NYS			
CSS-19	Implement dam structure repairs as required by dam safety report/protocols	Existing	Flood	3	3-1, 3-3, 3-6	Municipality	Watershed districts (if applicable); neighboring municipalities; County (if applicable); NYS	Medium	FEMA HMA	DOF
CSS-20	Support the Installation/Implementation of Community Emergency Alert System	New & Existing	All Hazards	1, 3, 5	1-1, 3-1, 3-3, 3-5, 3-6, 5-1	Municipality	Watershed districts (if applicable); neighboring municipalities; County (if applicable); NYS	Medium	FEMA HMA	DOF
CSS-21	Create a mitigation support fund to provide matching funds on an ongoing basis for municipality and residential mitigation projects which will fund cost-sharing portions of projects and be replenished during the annual budget cycle	New & Existing	All Hazards	1, 2, 3, 5	1-3, 1-9, 2-5, 3-1, 5-2	Municipality		Medium	Operating budget	Short
CSS-22 (SC-28)	Increase culvert size to decrease local flooding, L.I. N. 287.10, County Road 23 (Brook Road) over Slade Creek, Saratoga Springs O. D.	Existing	Flood, Severe Storm	1, 3	1-1, 1-9, 3-3 3-4	County	Municipality	Med	HMA grant County Capital Budget	Short

Notes: Short term = 1 to 5 years. Long Term= 5 years or greater. OG = On going program. DOF = Depending on funding. PDM = Pre-Disaster Mitigation Grant Program.



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



G.) ANALYSIS OF MITIGATION ACTIONS

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

Hazard of Concern	Mitigation Type					
	1. Prevention	2. Property Protection	3. Public Education and Awareness	4. Natural Resource Protection	5. Emergency Services	6. Structural Projects
Earthquake	CSS-3, CSS-7, CSS-15, CSS-20, CSS-21	CSS-3, CSS-7, CSS-10, CSS-15	CSS-3, CSS-7	CSS-3, CSS-7	CSS-3, CSS-5, CSS-6, CSS-7, CSS-10, CSS-11, CSS-12, CSS-15, CSS-20	CSS-3, CSS-7
Flooding (riverine, flash, coastal and urban flooding)	CSS-2, CSS-3, CSS-4, CSS-7, CSS-15, CSS-16, CSS-18, CSS-20, CSS-21, CSS-28	CSS-1a and b, CSS-2, CSS-3, CSS-4, CSS-7, CSS-8, CSS-9, CSS-10, CSS-14, CSS-15	CSS-1a and b, CSS-2, CSS-3, CSS-4, CSS-7	CSS-3, CSS-7, CSS-8, CSS-9, CSS-14	CSS-2, CSS-3, CSS-5, CSS-6, CSS-7, CSS-10, CSS-11, CSS-12, CSS-15, CSS-20, CSS-28	CSS-3, CSS-7, CSS-8, CSS-9, CSS-19, CSS-28
Ground Failure	CSS-3, CSS-7, CSS-15, CSS-20, CSS-21	CSS-3, CSS-7, CSS-10, CSS-15	CSS-3, CSS-7	CSS-3, CSS-7	CSS-3, CSS-5, CSS-6, CSS-7, CSS-10, CSS-11, CSS-12, CSS-15, CSS-20, CSS-28	CSS-3, CSS-7, CSS-28
Severe Storms (windstorms, thunderstorms, hail, lightning and tornados)	CSS-2, CSS-3, CSS-4, CSS-7, CSS-15, CSS-20, CSS-21, CSS-28	CSS-1a and b, CSS-2, CSS-3, CSS-4, CSS-7, CSS-10, CSS-15, CSS-17	CSS-1a and b, CSS-2, CSS-3, CSS-4, CSS-7	CSS-3, CSS-7	CSS-2, CSS-3, CSS-5, CSS-6, CSS-7, CSS-10, CSS-11, CSS-12, CSS-15, CSS-17, CSS-20	CSS-3, CSS-7
Severe Winter Storm (heavy snow, blizzards, ice storms)	CSS-3, CSS-7, CSS-15, CSS-20, CSS-21	CSS-3, CSS-7, CSS-10, CSS-15, CSS-17	CSS-3, CSS-7	CSS-3, CSS-7	CSS-3, CSS-5, CSS-6, CSS-7, CSS-10, CSS-11, CSS-12, CSS-15, CSS-17, CSS-20	CSS-3, CSS-7

Notes:

- 1. Prevention:** Government, administrative or regulatory actions or processes that influence the way land and buildings are developed and built. These actions also include public activities to reduce hazard losses. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- 2. Property Protection:** Actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- 3. Public Education and Awareness:** Actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and school-age and adult education programs.



4. **Natural Resource Protection:** Actions that minimize hazard loss and also preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
5. **Emergency Services:** Actions that protect people and property, during and immediately following, a disaster or hazard event. Services include warning systems, emergency response services, and the protection of essential facilities.
6. **Structural Projects:** Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, setback levees, floodwalls, retaining walls, and safe rooms.

H.) PRIORITIZATION OF MITIGATION INITIATIVES

Initiative #	# of Objectives Met	Benefits	Costs	Do Benefits equal or exceed Costs? (Yes or No)	Is project Grant eligible? (Yes or No)	Can Project be funded under existing programs/budgets? (Yes or No)	Priority (High, Med., Low)
CSS-1a	8	H	H	Y	Y	N	M-H*
CSS-1b	8	H	H	Y	Y	N	M-H*
CSS-2	8	M	L	Y	N	Y	H
CSS-3	28	M	M	Y	N (Yes for 5 year update)	Y	H
CSS-4	11	L	L	Y	N	Y	H
CSS-5	5	M	L	Y	N	Y	M
CSS-6	35	M	L	Y	N	Y	H
CSS-7	28	H	L-M	Y	Dependant on specific initiative	Dependant on specific initiative	M-H (dependant)
CSS-8	4	H	H	Y	Y	Partial (local match)	M-H
CSS-9	4	H	M	Y	N	Y	H
CSS-10	6	M	M	Y	N	Y	M
CSS-11	7	H	M	Y	Y	Partial (local match)	M
CSS-12	4	H	L	Y	Y	Y	H
CSS-13	2	M	Costs pending		Dependant on specific initiative	Dependant on specific initiative	Dependant
CSS-14	4	H	L	Y	Y	Y	H
CSS-15	5	H	L	Y	Y	Y	H
CSS-16	4	H	L	Y	Y	Partial (local match)	H
CSS-17	3	H	M	Y	Y	Partial (local match)	H
CSS-18	6	M	M-L	Y	Y	Y (local match)	M
CSS-19	3	M	M	Y	Y	Y (local match)	M
CSS-20	6	M	M	Y	Y	Y (local match)	M
CSS-21	6	M	M	Y	N	Y	H
CSS-22	4	M	M	Y	Y	Y	H

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

*This initiative has a Medium priority based on the prioritization scheme used in this planning process (implementation based on grant funding), however it is recognized that addressing repetitive and severe repetitive loss properties is considered a high priority by FEMA and SEMO (as expressed in the State HMP), and thus shall be considered a High priority for all participants in the planning process.

Explanation of Priorities

- **High Priority** - A project that meets multiple objectives (i.e., multiple hazards), benefits exceeds cost, has funding secured or is an on-going project and project meets eligibility requirements for the Hazard Mitigation Grant Program (HMGP) or Pre-Disaster Mitigation Grant Program (PDM) programs. High priority projects can be completed in the short term (1 to 5 years).
- **Medium Priority** - A project that meets goals and objectives, benefits exceeds costs, funding has not been secured but project is grant eligible under, HMGP, PDM or other grant programs. Project can be completed in the short term, once funding is completed. Medium priority projects will become high priority projects once funding is secured.
- **Low Priority** - Any project that will mitigate the risk of a hazard, benefits do not exceed the costs or are difficult to quantify, funding has not been secured and project is not eligible for HMGP or PDM grant funding, and time line for completion is considered long term (1 to 10 years). Low priority projects may be eligible other sources of grant funding from other programs. A low priority project could become a high priority project once funding is secured as long as it could be completed in the short term.

Prioritization of initiatives was based on above definitions: Yes

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

I.) FUTURE NEEDS TO BETTER UNDERSTAND RISK/VULNERABILITY

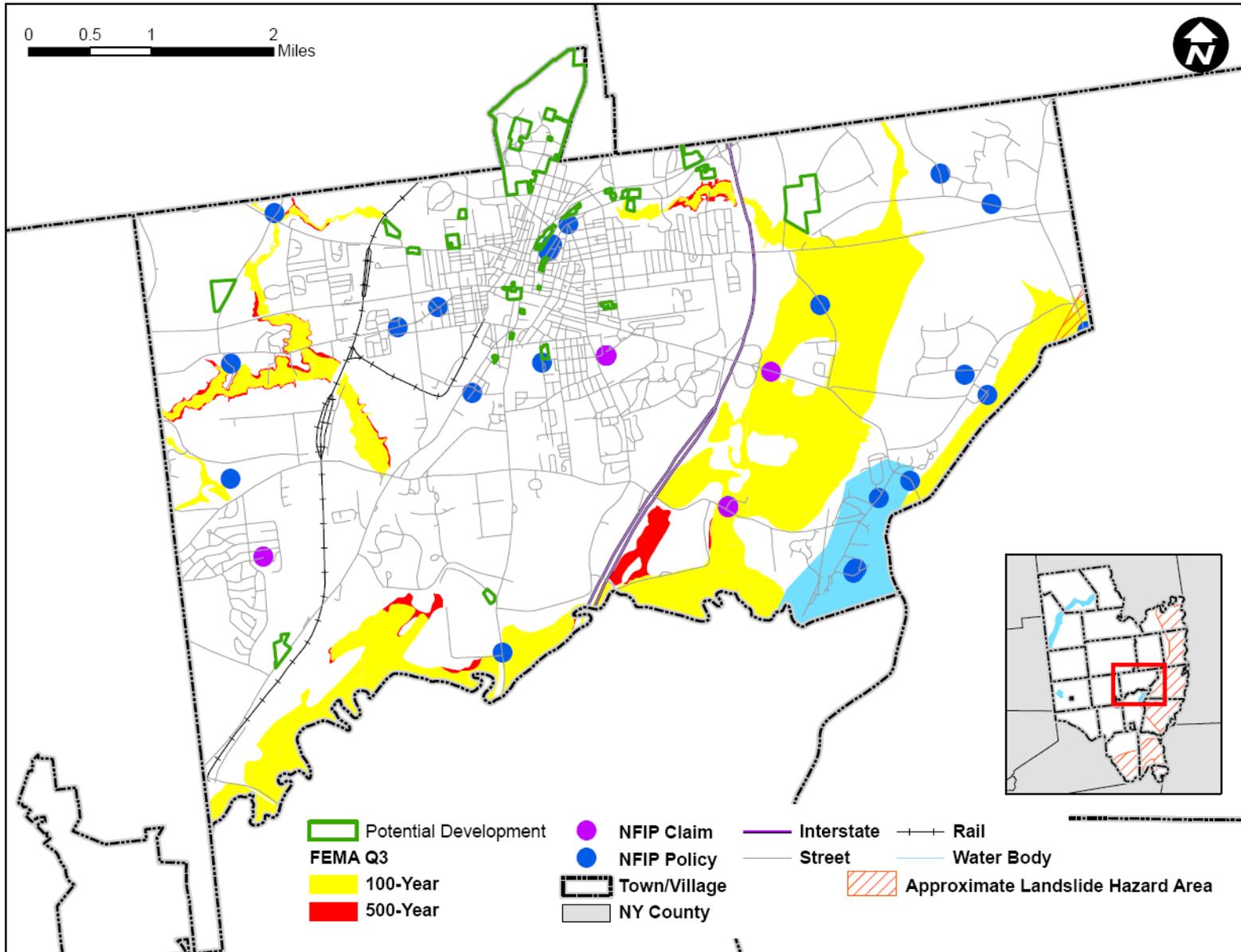
The City of Saratoga Springs continues to make advancements in its emergency management and continuity planning utilizing parameters established by FEMA and other New York State regulatory agencies governing the health and safety of its citizens. Of particular importance is the assessment of vulnerable areas within City limits with regard to natural and man-made disasters. The City is experiencing increased international development and its boundaries are experiencing the pressure of increased international development relative to a new technology corridor being established within the County. Community Rating Programs have the potential of exponentially changing within the next ten years as a result of this anticipated growth. The City will see increased residential and commercial growth as the anticipated technology corridor widens. Hazard profiles will change with the dynamics of the anticipated growth.

J.) HAZARD AREA EXTENT AND LOCATION

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

K.) ADDITIONAL COMMENTS

No additional comments at this time.



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

Notes: NFIP = National Flood Insurance Program

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