

9.23 City of Saratoga Springs

This section presents the jurisdictional annex for the City of Saratoga Springs. The city provided the following updates that were incorporated into this annex:

- Jurisdictional Annex Update Form (Contact Information, Profile, and Capability Assessment)
- Hazard Event History
- Hazard Ranking
- NYS Mitigation Action Worksheets

9.23.1 Hazard Mitigation Plan Point of Contact

Primary Point of Contact	Alternate Point of Contact
Marilyn Rivers Director of Risk and Safety City Safety Compliance Officer City of Saratoga Springs 474 Broadway Saratoga Springs, NY 12866 (518) 587 – 3550, ext. 2612 marilyn.rivers@saratoga-springs.org	Tina Carton Administrator of Parks, Open Lands, Historic Preservation and Sustainability City of Saratoga Springs 474 Broadway Saratoga Springs, NY 12866 (518) 587 – 3550, ext 2534 tina.carton@saratoga-springs.org

9.23.2 City Profile

Population

27,447 (American Community Survey 5-Year 2016 Estimates)

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.

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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

The first European settlers on the Tenen-deho Creek in the area of today's Saratoga Springs arrived in 1764. The first documented occurrence of the name "Saratoga Springs" dates back to 1829. The name comes from the early settlers, who were independent master craftsmen such as millers, carpenters, or butchers, whose professions were commonly known as the "mechanical arts" at the time. When the Champlain Canal reached the settlement in 1823, and especially when the Saratoga and Rensselaer Railway laid a track through the area in 1835, Saratoga Springs became an important commerce interchange. The community became an incorporated village in 1859, when it had about 1000 inhabitants. It grew rapidly as textile mills, factories and a linen thread company came to Saratoga Springs. In 1878, additional railways came to the village, and it became an important center of papermaking. In 1898, a hydroelectric power plant was

built on the Hudson River by Robert Newton King, and is now the oldest continuously-operating hydroelectric plant in the United States. By 1900, it was a major transfer yard and car repair center for the railways. In the 1920s, Saratoga Springs had a population of nearly 10,000. Saratoga Springs became a city in 1915. With the decline of the railroads, Saratoga Springs also suffered. The largest paper mill in the world which Saratoga Springs had once hosted (in 1904), ceased operations in 1971. The once thriving industry city is today a quiet residential city, with most inhabitants working in Albany, Schenectady, and other nearby communities.

Governing Body Format

The City of Saratoga Springs is governed by a mayor and four commissioners.

Growth/Development Trends

Table 9.23-1 Completed New Construction within the City of Saratoga Springs

Project	Location	Status	Number of Residential Units (Net)	Commercial Square Footage (SF)
East Broadway Subdivision (Belmonte)	5 East Broadway	Construction Complete	4	n/a

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Project	Location	Status	Number of Residential Units (Net)	Commercial Square Footage (SF)
Latchford Subdivision	22 Doten Avenue	Construction Complete	1	n/a
Saratoga Springs Homewood Suites (112 rooms) (Turf Hotels)	3368 South Broadway	Construction Complete	n/a	102,401
Zumpano Subdivision	119 East Avenue	Construction Complete	1	n/a
246 West Ave Residences	246 West Avenue	Construction Complete	16	n/a
East Ave Mixed Use Development	70 Excelsior Avenue	Construction Complete	12	6,028
Hoffman Carwash Facility	2214 NYS Route 50	Construction Complete	n/a	4,280
Spa Solar Park Development	Weibel Avenue Landfill	Construction Complete	n/a	n/a (no structure on-site)
Pitney Meadows Community Farm	213-235 West Avenue	Construction Complete	n/a	8,376
55 Phila Street (includes Caffe Lena)	55 Phila Street	Construction Complete	8	1,700
East Avenue Residences	East and Excelsior Avenues	Construction Complete	2	n/a

Table 9.23-2 Completed Redevelopment and Additions within the City of Saratoga Springs

Project	Location	Status	Number of Residential Units (Net)	Commercial Square Footage (SF)
Adelphi Hotel Redevelopment	Renovation Complete	n/a	No net increase	Adelphi Hotel Redevelopment
Holiday Inn Renovations	Renovation Complete	n/a	1,200	Holiday Inn Renovations
Rite Aid Redevelopment	Redevelopment Complete	n/a	14,368	Rite Aid Redevelopment
Commissary Kitchen	Renovation Complete	n/a	3,000	Commissary Kitchen

Table 9.23-3 Development Under Construction within the City of Saratoga Springs

Project	Location	Status	Number of Residential Units (Net)	Commercial Square Footage (SF)
McKenzie's Way Part 1	East Broadway	Under Construction	8	n/a
McKenzie's Way Part 2	East Broadway	Under Construction	6	n/a
City Square (Ellsworth Redevelopment)	120 Division Street	Under Construction	41	4,000
Beaver Pond Subdivision	Geyser Road	Under Construction	84	n/a

Project	Location	Status	Number of Residential Units (Net)	Commercial Square Footage (SF)
Meadow Vista Subdivision	Grand Avenue	Under Construction	21	n/a
Waterview Subdivision	655 Crescent Avenue	Under Construction	4	n/a
Wagner Subdivision	Joshua Road	Under Construction	5	n/a
Home of the Good Shepherd Senior Assisted Living and Senior Housing- total of 146 units/beds (within facility and 14 cottage units)	394-402 Church Street	Under Construction (facility complete, 14 units under construction)	14	constructed
Bazaar Subdivision	2 North Circular Street	Under Construction	1	n/a
Slack Chemical Addition	3 Unlimited Drive	Under Construction	n/a	29,900
Triple Crown Subdivision	Richard Avenue	Under Construction	3	n/a
86 Woodlawn 1 Unit to 4 Unit Conversion	86 Woodlawn Avenue	Under Construction	4	n/a
166-168 Jefferson Street	166-168 Jefferson Street	Under Construction	10	n/a
Hidden Fountain Commons	61 Lawrence Street & 87 Church Street	Under Construction	6	3,420
Burns Subdivision	34 Benedict Street	Under Construction	3	n/a
Marcellus Subdivision	85 Monroe Street	Under Construction	4	n/a
Trifecta Subdivision	136 Lincoln Avenue	Under Construction	2	n/a
Union Ave Condos (Moore Hall replacement)	28 Union Ave/35 White Street	Under Construction	26	n/a
SKS Bottling & Distribution	Geyser Rd	Under Construction	n/a	118,000
Saratoga Hospital Oncology Expansion	211 Church Street	Under Construction	n/a	3,000
Buff Road Subdivision	Buff Road and Route 9N	Under Construction	15	n/a
Kenyon Subdivision	45 Doten Avenue	Under Construction	1	n/a
Teakwood Builders Showroom	75 Church Street	Under Construction	n/a	3,235
77 Excelsior Mixed Use Development	77 Excelsior Avenue	Under Construction	91	1,300
Excelsior Park Phase 2	Excelsior Avenue	Under Construction	105	n/a

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Table 9.23-4 Development Under Construction within the City of Saratoga Springs

Project	Location	Status	Number of Residential Units (Net)	Commercial Square Footage (SF)
McKenzie's Way Part 1	East Broadway	Under Construction	8	n/a
McKenzie's Way Part 2	East Broadway	Under Construction	6	n/a
City Square (Ellsworth Redevelopment)	120 Division Street	Under Construction	41	4,000
Beaver Pond Subdivision	Geyser Road	Under Construction	84	n/a
Meadow Vista Subdivision	Grand Avenue	Under Construction	21	n/a
Waterview Subdivision	655 Crescent Avenue	Under Construction	4	n/a
Wagner Subdivision	Joshua Road	Under Construction	5	n/a
Home of the Good Shepherd Senior Assisted Living and Senior Housing- total of 146 units/beds (within facility and 14 cottage units)	394-402 Church Street	Under Construction (facility complete, 14 units under construction)	14	constructed
Bazaar Subdivision	2 North Circular Street	Under Construction	1	n/a
Slack Chemical Addition	3 Unlimited Drive	Under Construction	n/a	29,900
Triple Crown Subdivision	Richard Avenue	Under Construction	3	n/a
86 Woodlawn 1 Unit to 4 Unit Conversion	86 Woodlawn Avenue	Under Construction	4	n/a
166-168 Jefferson Street	166-168 Jefferson Street	Under Construction	10	n/a
Hidden Fountain Commons	61 Lawrence Street & 87 Church Street	Under Construction	6	3,420
Burns Subdivision	34 Benedict Street	Under Construction	3	n/a
Marcellus Subdivision	85 Monroe Street	Under Construction	4	n/a
Trifecta Subdivision	136 Lincoln Avenue	Under Construction	2	n/a
Union Ave Condos (Moore Hall replacement)	28 Union Ave/35 White Street	Under Construction	26	n/a
SKS Bottling & Distribution	Geyser Rd	Under Construction	n/a	118,000
Saratoga Hospital Oncology Expansion	211 Church Street	Under Construction	n/a	3,000

Project	Location	Status	Number of Residential Units (Net)	Commercial Square Footage (SF)
Buff Road Subdivision	Buff Road and Route 9N	Under Construction	15	n/a
Kenyon Subdivision	45 Doten Avenue	Under Construction	1	n/a
Teakwood Builders Showroom	75 Church Street	Under Construction	n/a	3,235
77 Excelsior Mixed Use Development	77 Excelsior Avenue	Under Construction	91	1,300
Excelsior Park Phase 2	Excelsior Avenue	Under Construction	105	n/a

Table 9.23-5 Approved Development Not Under Construction within the City of Saratoga Springs

Project	Location	Status	Number of Residential Units (Net)	Commercial Square Footage (SF)
Logistics One Flex Warehouse Expansion Site Plan	29, 31, 33 Cady Hill Blvd, WJ Grande Industrial Park	Site Plan	n/a	98,757
YMCA Expansion	290 West Avenue	First Phase complete, Second Bldg. Addition to be constructed	n/a	17,000
Congress St. Apartments	92 Congress St	SUP	4	n/a
79 Henry Street Mixed Use Building	79 Henry Street	Site Plan	n/a	19,160
Washington Commons Site Plan	Washington Street and Central Avenue	First Phase Complete, Second remains	6	7,500
Subdivision of Lands on Kaydeross Avenue West	11-17 Kaydeross Avenue West	Subdivision	4	n/a
Downton Walk	27 Jumel Place	Site Plan	7	n/a
Rip Van Dam Hotel (176 room expansion, banquet space)	353 Broadway	Site Plan	n/a	108,000
Hamilton Street Parking Garage (4-story, 274 spaces, affiliated with Rip Van Dam Hotel)	Hamilton Street, between Congress and Williams	Site Plan	n/a	n/a
City Center Parking Garage	Maple Avenue, York Street, High Rock Avenue	Site Plan	n/a	n/a
Oak Ridge Phase 2 Subdivision	Meadowbrook Road	Subdivision	72	n/a
Excelsior Park Phase 2A	Excelsior Avenue	Site Plan	18	n/a
Expert Inspection Subdivision	508 Grand Avenue	Subdivision	1	n/a

Project	Location	Status	Number of Residential Units (Net)	Commercial Square Footage (SF)
Bethesda Parish House Expansion	26 Washington Street	Site Plan	n/a	30,602
Belmonte Subdivision	319 & 321 Jefferson Street	Subdivision	4	n/a
Southern Subdivision	124 York Avenue	Subdivision	1	n/a
Benton Trust Subdivision	58 Fifth Avenue	Subdivision	1	n/a
Shelters of Saratoga (Code Blue)	14 Walworth Street	SUP, Site Plan	n/a	6,400
Sames Mixed-Use Building	20 Bowman Street	Site Plan	1	2,000
Racing City Brewing Company (Fed Ex Redevelopment)	250 Excelsior Avenue	SUP		20,000
Nelson Ave Subdivision	33 Nelson Avenue	Subdivision	2	n/a
Plaza 15 Self-Storage Facility Expansion	Gick Rd	Site Plan	n/a	70,000
Munter 3 lot subdivision	Geysler Rd	Subdivision	3	n/a
Greenfield Manufacturing Expansion	25 Freedom Way	Site Plan	n/a	21,625
118 West Avenue Retail and Multi-family	118 West Avenue	Special Use Permit/Site Plan	36	4,100
Skidmore College Boathouse	Staffords Bridge Road	Site Plan	n/a	3900
Skidmore College Science Center	815 North Broadway	Site Plan	n/a	117,000
Universal Preservation Hall Renovation	25 Washington Street	Site Plan	n/a	1,350
Intrada (Vecino) Saratoga Springs	Washington Street & Station Lane	SUP, Site Plan	157	10,000
Saratoga Springs Horse Show Land Disturbance Activity	342 Jefferson Street	Land disturbance permit	n/a	n/a
Pet Lodge	314 Pratt Drive	SUP and Site Plan	n/a	6,000
Caroline Street Mixed Use Addition	24 Caroline Street	Site Plan	2	1,563
Faden Mixed-Use Development	146 South Broadway	SUP, Subdivision, Site Plan	4	3740

Table 9.23-6 Construction Pending Review within the City of Saratoga Springs

Project	Location	Status	Number of Residential Units (Net)	Commercial Square Footage (SF)
Cerrone	Old Schuylerville Road	Subdivision	1	n/a
Habitat for Humanity	26&28 Cherry Street	Subdivision	2	n/a

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Project	Location	Status	Number of Residential Units (Net)	Commercial Square Footage (SF)
Helin Subdivision	2 Glenmore Avenue	Subdivision	5	n/a
Lands of Stone Retail, Office, Self Storage, Residences	Weibel Avenue	Special Use Permit/ Site Plan	6	55,600
Lake Local Inn, Restaurant and Retail	550 Union Avenue	Special Use Permit/Site Plan	n/a	48,130
Faden Mixed-Use Development	West Avenue & Station Lane	SUP	71	6428
Mendenhall Subdivision	101 Old Schuylerville Rd	Subdivision	4	n/a
Top Capital Station Park-Hotel, Multi-family, Senior, Senior Assisted Living, Retail	Station Lane and Washington St	Special Use Permit/ Site Plan	252	29,000
Henry St Condominiums	120 Henry Street	Subdivision, SUP, Site Plan	24	n/a
Maney Multi-family Residences	18 Cherry and 38 Marvin Alley	Site Plan	8	n/a
Interlaken- Regatta View Phase 3	9P/Regatta View Drive	Site Plan	24	n/a
Station Lane Apartments (Askew)	Station Lane	SUP	36	n/a
Washington St. Hotel and Spa (Adelphi Partners)	19-23 Washington Street	Site Plan	n/a	48,000
Ballston Avenue Townhomes	116 Ballston Avenue	Subdivision, site plan	20	
Ericson Subdivision	517 Grand Avenue	Subdivision	1	n/a
Excelsior Park	Excelsior Avenue and Ormandy Lane	SUP	157	154,200
Spencer Subdivision	Kaydeross Park Road and Arrowhead Road	Subdivision	22	n/a
Song and Wang Subdivision	Lincoln Ave/ 21 Murphy Lane	Subdivision	1	n/a
Devall Subdivision	59 Franklin	Subdivision	1	n/a
KCG Mixed-Use Development	153 South Broadway	SUP, Site Plan	110	35,500

9.23.3 City-Specific Hazard Information

Detailed hazard event histories can be found in the Previous Occurrences and Losses sections of each hazard profile in Section 5. The information summarized in Table 9.23-7 is unique hazard occurrences reported within the City of Saratoga Springs in the last 10 years. Table 9.23-8

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summarizes the City of Saratoga Spring’s ranking of the hazards based on probability of occurrence and impacts to the city.

Table 9.23-7 Hazard Event History for the City of Saratoga Springs

Hazard	Previous Events (Last 10 Years)
Extreme Temperatures (Heat and Cold)	Extreme Heat: 18 Extreme Cold: 19
Drought	2 D1 Drought Events
Earthquake	1
Flood	2
Ground Failure (Landslide, land Subsidence)	None
Infectious Disease	Not provided
Severe Winter Weather (Ice storm, nor’easters, heavy snow, blizzards, freezing rain/sleet)	Heavy Snow: 40 Hail/Freezing Rain/Sleet/Ice Storm: 22
Severe Storm (Hurricane, windstorm, thunderstorm, lightning, tornados, hail, microbursts)	Not provided
Wildfire	Not provided

Table 9.23-8 City of Saratoga Springs Hazard Ranking

Rank #	Hazard Type	Probability of Occurrence	Risk Ranking Score ^a	Hazard Ranking ^b
5	Drought	Infrequent	12	Medium
5	Earthquake	Infrequent	12	Medium
4	Extreme Temperature	Regular	27	Medium
3	Flood (riverine, flash, coastal and urban flooding)	Regular	30	High
8	Ground Failure	Rare	6	Low
5	Invasive Species	Infrequent	12	Medium
1	Severe Storm (windstorms, thunderstorms, hail, lightning and tornados)	Frequent	44	High
2	Severe Winter Storm (heavy snow, blizzards, ice storms)	Frequent	32	High
8	Wildfire	Rare	6	Low

a. Risk ranking score = Probability x Impact

b. High = Total hazard priority risk ranking score of 31 and above; Medium = Total hazard priority risk ranking of 16-30; and Low = Total hazard risk ranking below 15

9.23.4 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Legal and regulatory capability;
- Administrative and technical capability;
- Fiscal capability; and,

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- Community classification.

Legal and Regulatory Capability

Table 9.23-9 Legal and Regulatory Capability of the City of Saratoga Springs

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 Updated 10/04/12
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	City of Saratoga Springs 2015 Comprehensive Plan 06/16/15
9) Capital Improvements Plan	Y	N	N	N	City Charter 2001
10) Site Plan Review Requirements	Y	Y	Y	N	City of Saratoga Springs Zoning Ordinance Appendix B
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	City of Saratoga Springs Emergency Management Plan 8/31/16
14) Post Disaster Recovery Plan	Y	N	Y	Y	City of Saratoga Springs Emergency Management Plan 8/31/16

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9.23-10

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)
15) Post Disaster Recovery Ordinance	Y	N	Y	N	City of Saratoga Springs Emergency Management Plan 8/31/16
16) Real Estate Disclosure req.	Y	N	Y	N	City of Saratoga Springs Emergency Management Plan 8/31/16
17) Other [Special Purpose Ordinances (i.e., critical or sensitive areas)]	Y	N	N	N	Complete Streets Plan 2016

Administrative and Technical Capability

Table 9.23-10 Administrative and Technical Capability of the City of Saratoga Springs

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, Senior Planner, Planner, and Administrator of Parks, Open Lands, and Historic Preservation
2) Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	City Engineer and Assistant City Engineer
3) Planners or engineers with an understanding of natural hazards	Y	City Engineer
4) NFIP Floodplain Administrator (if you are in the NFIP, you must have one.)	Y	Flood Plan Administrator (Assistant Building Inspector)
5) Surveyor(s)	Y	Surveyor
6) Personnel skilled or trained in "GIS" applications	Y	Engineering and Planning Staff
7) Scientist familiar with natural hazards in the City of Saratoga Springs.	Y	Skidmore College Science Department
8) Emergency Manager	Y	City Safety Officer
9) Grant Writer(s)	Y	Administrator of Planning and Economic Development
10) Staff with expertise or training in benefit/cost analysis	Y	Multiple City Staff

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Fiscal Capability

Table 9.23-11 Fiscal Capability of the City of Saratoga Springs

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

Community Classifications

Table 9.23-12 Community Classifications of the City of Saratoga Springs

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 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;

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- The Building Code Effectiveness Grading Schedule;
- The ISO Mitigation online ISO's Public Protection website at: <https://www.isomitigation.com/ppc/>;
- The National Weather Service Storm Ready website at <https://www.weather.gov/stormready/>; and,
- The National Firewise Communities website at <http://firewise.org/>.

9.23.5 Mitigation Strategy

Proposed Hazard Mitigation Initiatives

Table 9.23-13 Proposed Hazard Mitigation Initiatives of the 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
CSS-1	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

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-2	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 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
CSS-3	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 to Medium	Local Budget	Long Term
CSS-4	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)	Mitigation Planning Coordinator), SEMO	Low – High (for 5-year update)	Local Budget, possibly FEMA Mitigation Grant Funding for 5-year update	Long Term
CSS-5	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	Long Term

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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
CSS-6	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	Long Term
CSS-7	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	Long Term
CSS-8	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	Long Term
CSS-9	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 Stormwater impacts	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	Short Term
CSS-10	Move power, telephone and cable utility wiring underground for critical City infrastructure.	New & Existing	All Hazards	1, 3	1-1, 1-3, 1-6, 1-8, 3-4, 3-6	Municipality	SiFi Networks (within City limits)	Varies per project - project specific	Local Capital Budget	Long Term
CSS-11	Enhance interoperability communications between fire, police, EMS, DPW and emergency management.	New & Existing	All Hazards	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	Short Term
CSS-12	MIS Hazardous Waste Mitigation Program per state and federal guidelines Ongoing per federal and state regulatory agency mandates.	New & Existing	Hazardous Waste	1, 3-6	1-1, 3-6	NYS DEC	Regional Coordination as appropriate	Costs pending	Municipality	Long Term

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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
CSS-13	Identify storm water system rehabilitation needs and areas for new storm system development including culvert replacements and enhanced drainage systems. 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.	New & 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	Long Term
CSS-14	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 & 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; Grants	Long Term
CSS-15	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 & 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; Grants	Long Term

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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
CSS-16	Vegetation Management: Trim trees and vegetation in the City right-of-ways to mitigate potential power loss in storm management	New & Existing	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; Grants	Long Term
CSS-17	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	Long Term
CSS-18	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	Long Term
CSS-19	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	Ongoing

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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
CSS-20	Continue to implement Loughberry Lake dam management by working with engineers, NYS DEC, and NYS DOT to facilitate improvements to the dam embankments, creating a new spillway and addition water diversion mechanisms to safeguard life and property.	New & Existing	Flood	1,3	1-1, 3-6	Municipality	NYS DEC; NYS DOT	Medium	City Capital Bonding	Short Term
CSS-21	Promote windstorm mitigation by promoting public and private tree management, providing links for emergency management notifications via Nixle, Code Red, 511NY, and National Grid weblinks, and promoting protection of public and private infrastructure through enforcement of building codes.	N/A	Severe Storm	1, 2, 3	1-1, 2-1, 2-4, 3-6	Municipality	County, State, Private Property Owners	Low	Federal and State	Ongoing

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

Notes: Short term = 1 to 5 years; Long Term= 5 years or greater; OG = Ongoing program; DOF = Depending on funding; NA = Not applicable; PDM = Pre-Disaster Mitigation Grant Program.

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.

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Table 9.23-14 Analysis of Mitigation Actions of the City of Saratoga Springs

Hazard of Concern	Type of Mitigation Action					
	Prevention	Property Protection	Public Education and Awareness	Natural Resource Protection	Emergency Services	Structural Projects
Drought	CSS-4, CSS-8, CSS-14, CSS-18, CSS-19	CSS-4, CSS-8, CSS-10, CSS-14, CSS-16	CSS-4, CSS-8	CSS-4, CSS-8	CSS-4, CSS-6, CSS-7, CSS-8, CSS-10, CSS-11, CSS-14, CSS-18	CSS-4, CSS-8
Earthquake	CSS-4, CSS-8, CSS-14, CSS-18, CSS-19	CSS-4, CSS-8, CSS-10, CSS-14	CSS-4, CSS-8	CSS-4, CSS-8	CSS-4, CSS-6, CSS-7, CSS-8, CSS-10, CSS-11, CSS-14, CSS-18	CSS-4, CSS-8
Extreme Temperatures	CSS-4, CSS-8, CSS-14, CSS-18, CSS-19	CSS-4, CSS-8, CSS-10, CSS-14, CSS-16	CSS-4, CSS-8	CSS-4, CSS-8	CSS-4, CSS-6, CSS-7, CSS-8, CSS-10, CSS-11, CSS-14, CSS-18	CSS-4, CSS-8
Flooding (riverine, flash, coastal and urban flooding)	CSS-3, CSS-4, CSS-5, CSS-8, CSS-14, CSS-15, CSS-18, CSS-19	CSS-1, CSS-2, CSS-3, CSS-4, CSS-5, CSS-8, CSS-9, CSS-10, CSS-13, CSS-14	CSS-1, CSS-2, CSS-3, CSS-4, CSS-5, CSS-8	CSS-4, CSS-8, CSS-9, CSS-13	CSS-3, CSS-4, CSS-5, CSS-7, CSS-8, CSS-10, CSS-11, CSS-14, CSS-18	CSS-4, CSS-8, CSS-9, CSS-17, CSS-20
Ground Failure	CSS-4, CSS-8, CSS-14, CSS-18, CSS-19	CSS-4, CSS-8, CSS-10, CSS-14	CSS-4, CSS-8	CSS-4, CSS-8	CSS-4, CSS-6, CSS-7, CSS-8, CSS-10, CSS-11, CSS-14, CSS-18	CSS-4, CSS-8
Invasive Species	CSS-4, CSS-8, CSS-14, CSS-18, CSS-19	CSS-4, CSS-8, CSS-10, CSS-14, CSS-16	CSS-4, CSS-8	CSS-4, CSS-8	CSS-4, CSS-6, CSS-7, CSS-8, CSS-10, CSS-11, CSS-14, CSS-18	CSS-4, CSS-8
Severe Storms (windstorms, thunderstorms, hail, lightning and tornados)	CSS-3, CSS-4, CSS-5, CSS-8, CSS-14, CSS-18, CSS-19, CSS-21	CSS-1, CSS-2, CSS-3, CSS-4, CSS-5, CSS-8, CSS-10, CSS-14, CSS-16	CSS-1, 2, CSS-3, CSS-4, CSS-5, CSS-8, CSS-21	CSS-4, CSS-8	CSS-3, CSS-4, CSS-6, CSS-7, CSS-8, CSS-10, CSS-11, CSS-14, CSS-16, CSS-18, CSS-21	CSS-4, CSS-8

Hazard of Concern	Type of Mitigation Action					
	Prevention	Property Protection	Public Education and Awareness	Natural Resource Protection	Emergency Services	Structural Projects
Severe Winter Storm (heavy snow, blizzards, ice storms)	CSS-4, CSS-8, CSS-14, CSS-18, CSS-19	CSS-4, CSS-8, CSS-10, CSS-14, CSS-16	CSS-4, CSS-8	CSS-4, CSS-8	CSS-4, CSS-6, CSS-7, CSS-8, CSS-10, CSS-11, CSS-14, CSS-16, CSS-18	CSS-4, CSS-8
Wildfire	CSS-4, CSS-8, CSS-14, CSS-18, CSS-19	CSS-4, CSS-8, CSS-10, CSS-14, CSS-16	CSS-4, CSS-8	CSS-4, CSS-8	CSS-4, CSS-6, CSS-7, CSS-8, CSS-10, CSS-11, CSS-14, CSS-18	CSS-4, CSS-8

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.

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Prioritization of Mitigation Initiatives

Table 9.23-15 Prioritization of Mitigation Initiatives of the City of Saratoga Springs

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-1	8	H	H	Y	Y	N	M-H*
CSS-2	8	H	H	Y	Y	N	M-H*
CSS-3	8	M	L	Y	N	Y	H
CSS-4	28	M	M	Y	N (Yes for 5 year update)	Y	H
CSS-5	11	L	L	Y	N	Y	H
CSS-6	5	M	L	Y	N	Y	M
CSS-7	35	M	L	Y	N	Y	H
CSS-8	28	H	L-M	Y	Dependant on specific initiative	Dependant on specific initiative	M-H (dependant)
CSS-9	4	H	H	Y	Y	Partial (local match)	M-H
CSS-10	6	M	M	Y	N	Y	M
CSS-11	7	H	M	Y	Y	Partial (local match)	M
CSS-12	2	M	Costs pending		Dependant on specific initiative	Dependant on specific initiative	Dependant
CSS-13	4	H	L	Y	Y	Y	H
CSS-14	5	H	L	Y	Y	Y	H
CSS-15	4	H	L	Y	Y	Partial (local match)	H
CSS-16	3	H	M	Y	Y	Partial (local match)	H
CSS-17	3	M	M	Y	Y	Y (local match)	M
CSS-18	6	M	M	Y	Y	Y (local match)	M
CSS-19	6	M	M	Y	N	Y	H
CSS-20	2	M	M	Y	N	Y	H

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-21	3	L	L	Y	Y	N	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 Federal Emergency Management Agency (FEMA) and NYS Division of Homeland Security and Emergency Services (NYS DHSES) (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.

9.23.6 Future Needs to Better Understand Risk/Vulnerability

None at this time.

9.23.7 Additional Comments

No additional comments at this time.

9.23.8 NYS Mitigation Worksheets

Saratoga County Multi-Jurisdictional Hazard Mitigation Plan			
Name of Jurisdiction: City of Saratoga Springs			
NYS DHSES Action Worksheet			
Project Name:	Loughberry Lake Dam Management		
Project Number:	CSS-20		
Risk / Vulnerability			
Hazard of Concern:	Flood		
Description of the Problem:	Extreme weather event may increase water retention for Loughberry Lake Dam creating a build up of dam pressure and potential overflow at its perimeters jeopardizing adjoining properties, water resources and transportation corridors at its earthen dam embankment.		
Action or Project Intended for Implementation			
Description of the Solution:	City is currently working with its engineers, NYS DEC and NYS DOT to facilitate improvements to the dam embankments, creation of a new spillway and additional water diversion mechanisms to safeguard life and property.		
Is this project related to a Critical Facility?		Yes	<input checked="" type="checkbox"/>
		No	<input type="checkbox"/>
(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)			
Level of Protection:		Estimated Benefits (losses avoided):	Protection of public and private property and existing critical transportation corridors – NYS Rt9 and NYS Rt 50.
Useful Life:	50		
Estimated Cost:	\$7.5 million		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	2-3 years providing cooperation is received from NYS agencies
Estimated Time Required for Project Implementation:	2-3 Years	Potential Funding Sources:	City Capital Bonding
Responsible Organization:	City, NYS DEC, NYS DOT	Local Planning Mechanisms to be Used in Implementation, if any:	Continue compliance with National Flood Plain Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	
Progress Report (for plan maintenance)			
Date of Status Report:	November 29, 2018		
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			
2017 New York State Hazard Mitigation Planning Standards Guide			

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Name of Jurisdiction: City of Saratoga Springs

NYS DHSES Action Worksheet			
Project Name:	Windstorm		
Project Number:	CSS-21		
Risk / Vulnerability			
Hazard of Concern:	Severe Storm		
Description of the Problem:	City experiences frequent and severe wind microbursts that cause structural property and urban forest damage to critical infrastructure.		
Action or Project Intended for Implementation			
Description of the Solution:	Solution is complex. City promotes public and private tree management; provides links for emergency management notifications via Nixle, Code Red, 511NY and National Grid web links; and promotes protection of public and private infrastructure through enforcement of Building Codes.		
Is this project related to a Critical Facility?		Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>
(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater.)			
Level of Protection:	High	Estimated Benefits (losses avoided):	Protection of life and property and critical infrastructure.
Useful Life:	Varies		
Estimated Cost:	Vaires		
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Ongoing
Estimated Time Required for Project Implementation:	Ongoing	Potential Funding Sources:	Federal and State
Responsible Organization:	Private, City, County, and State	Local Planning Mechanisms to be Used in Implementation, if any:	Public and private community resources
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	
Progress Report (for plan maintenance)			
Date of Status Report:	November 29, 2018		
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			

2017 New York State Hazard Mitigation Planning Standards Guide