9.1 Saratoga County

This section presents the jurisdictional annex for Saratoga County. The county provided the following updates that were incorporated into this annex:

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

9.1.1 Hazard Mitigation Plan Point of Contact

Primary Point of Contact	Alternate Point of Contact
Carl Zelman, Director	Mike Stanley, Emergency Services Specialist
25 West High Street; Ballston Spa, NY 12020	25 West High Street; Ballston Spa, NY 12020
(518) 885 – 2232	(518) 885 – 2232
czeilman@saratogacountyny.gov	mstanley@saratogacountyny.gov

9.1.2 County Profile

Please refer to Section 4 of this Plan for details on Saratoga County's population, location, climate, history, growth and development.

9.1.3 County-Specific Hazard Information

Detailed hazard event histories can be found in the Previous Occurrences and Losses sections of each hazard profile in Section 5. Table 9.1-1 summarizes Saratoga County's ranking of the hazards based on the probability of occurrence and impacts to the county.

Table 9.1-1 Saratoga County Hazard Ranking

Rank #	Hazard Type	Probability of Occurrence	Risk Ranking Score ^a	Hazard Ranking ^b
8	Drought	Infrequent	16	Low
7	Earthquake	Rare	17	Low
2	Extreme Temperature	Frequent	48	High
1	Flood (riverine, flash, coastal and urban flooding)	Frequent	56	High
4	Ground Failure	Regular	39	Medium
6	Invasive Species	Frequent	24	Medium
2	Severe Storm (windstorms, thunderstorms, hail, lightning and tornados)	Frequent	48	High

Rank #	Hazard Type	Probability of Occurrence	Risk Ranking Score ^a	Hazard Ranking ^b
5	Severe Winter Storm (heavy snow, blizzards, ice storms)	Frequent	36	Medium
9	Wildfire	Rare	8	Low

a. Risk ranking score = Probability x Impact

9.1.4 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

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

Legal and Regulatory Capability

Table 9.1-2 Legal and Regulatory Capability of Saratoga County

		· ·	1 0	-	
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	Not provided	N	Υ	N	Regulated at local and state levels
2) Zoning Ordinance	Not provided	N	N	N	Regulated at local level
3) Subdivision Ordinance	Not provided	N	N	N	Regulated at local level
4) National Flood Insurance Program (NFIP) Flood Damage Prevention Ordinance (if you are in the NFIP, you must have this.)	Not provided	Υ	Y	Y	Regulated at local level
5) Growth Management	Not provided	N	N	N	Regulated at the local level
6) Floodplain Management / Basin Plan	Not provided	Υ	Y	N	Soil and Water has prepared stream management plans for some communities?

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

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)
7) Stormwater Management Plan/Ordinance	Not provided	N	Y	Υ	Regulated at the local level
8) Comprehensive Plan / Master Plan/ General Plan	Not provided	N	N	N	Regulated at the local level
9) Capital Improvements Plan (CIP)	Not provided	N	N	N	Not provided
10) Site Plan Review Requirements	Not provided	Y	Y	N	Regulated at the local level
11) Open Space Plan	Not provided	Not provided	Not provided	Not provided	Not provided
12) Economic Development Plan	Not provided	N	N	N	Not provided
13) Emergency Response Plan	Not provided	N	Υ	Y	Not provided
14) Shoreline Management Plan	Not provided	Not provided	Not provided	Not provided	Not provided
15) Post Disaster Recovery Plan	Not provided	N	N	N	N/A
16) Post Disaster Recovery Ordinance	Not provided	N	N	N	Not provided
17) Real Estate Disclosure req.	Not provided	Not provided	Not provided	Not provided	N/A
18) Other [Special Purpose Ordinances (i.e., critical or sensitive areas)]	Not provided	Not provided	Not provided	Not provided	Green Infrastructure Plan

Administrative and Technical Capability

Table 9.1-3 Administrative and Technical Capability of Saratoga County

Staff/ Personnel Resources	Available (Y or N)	Department/ Agency/Position
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Y	County Planning
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	Highway and Buildings Departments

Staff/ Personnel Resources	Available (Y or N)	Department/ Agency/Position
Planners or engineers with an understanding of natural hazards	Y	County Planning
4) Floodplain Administrator	Υ	Local municipal designee
5) Surveyor(s)	Υ	Highway Department
6) Personnel skilled or trained in "Geographic Information System" (GIS) applications	Y	County Planning
7) Scientist familiar with natural hazards in the County of Saratoga.	Y	Saratoga County Soil Water Conservation District
8) Emergency Manager	Υ	Emergency Services
9) Grant Writer(s)	N	Some grant writing is done at the department level, but the county does not have a grant writer
10) Staff with expertise or training in benefit/cost analysis	N	Not provided

Fiscal Capability

Table 9.1-4 Fiscal Capability of Saratoga County

Financial Resources	Accessible or Eligible to use (Yes/No/Don't know)
Community Development Block Grants (CDBG)	Have been used at the county level for economic development including direct loans to businesses and revolving loan program?
2) Capital Improvements Project Funding	Yes
3) Authority to Levy Taxes for specific purposes	Bonding
4) User fees for water, sewer, gas or electric service	Yes (Water and Sewer)
5) Impact Fees for homebuyers or developers of new development/homes	No
6) Incur debt through general obligation bonds	Have been used for construction of county buildings
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 sponsored grant programs such as Flood Control Assistance Account Program (FCAAP) 11) Other	Yes
.,,	

Community Classifications

Table 9.1-5 Community Classifications of Saratoga County

Program	Classification	Date Classified
Community Rating System (CRS)	N/A	N/A
Storm Ready	N/A	N/A
Firewise	N/A	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;
- 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/.

9.1.5 Mitigation Strategy

Proposed Hazard Mitigation Initiatives

Table 9.1-6 Proposed Hazard Mitigation Initiatives of Saratoga County

	1	1	1		. 8	ı		1	1	
Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Fead	Support	Estimated Cost	Sources of Funding	Timeline
SC-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	County	Municipality or District the property is located; NYS DHSES; FEMA	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Long Term

Multi-Jurisdictional Hazard Mitigation Plan

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline
SC-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	County	Municipality or District the property is located; NYS DHSES; FEMA	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Long Term

လ် Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline
	As appropriate, support 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 (likely through NFIP Floodplain Administrator)	County, NYS DHSES, ISO, FEMA	Low - Medium	Local Budget	Long Term
SC-4	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 7.0	New & Existing	All Hazards	All	All	Municipality (through mitigation planning point of contacts)	County (through Mitigation Planning Coordinator), NYS DHSES	Low – High (for 5-year update)	Local Budget, possibly FEMA Mitigation Grant Funding for 5-year update	Long Term
SC-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 (likely through NFIP Floodplain Administrator)	NYS DHSES, ISO, FEMA	Low - Medium	Local Budget	Long Term

Multi-Jurisdictional Hazard Mitigation Plan

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline
SC-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	Municipal Emergency Manager with support from County OEM and NYS DHSES	County Emergency Management, NYS DHSES	Low - Medium	Local Budget	Long Term
SC-7	Implement proactive stream/drainage maintenance system to reduce flooding in hazard areas.	Existing	Flood, Severe Storm	1	1-2, 1-9	SWCD	Highway	Low- High	Various sources	Ongoing
SC-8	Provide backup power at critical facilities where necessary	Existing	All Hazards	1, 3	1-1, 3-4, 3-6	Emergency Services		Med	County, Homeland	Short Term
SC-9	Enhance operations of Emergency Operations Center though technological upgrades, including improved communications systems	Existing	All Hazards	3	3-3, 3-4, 3-5	Emergency Services		Low- Medium	County, Homeland Security and other sources	Short Term

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline
SC-10	Expand public education on ways to protect property before and during hazard events	Existing	All Hazards	2	2-1, 2-2, 2-3, 2-4, 2-5	Emergency Services		Low	County and other available sources	Long Term
SC-11	Enhance emergency preparedness awareness by active participation in training exercises at both the county and local level	Existing	All Hazards	All	All	Emergency Services	NYNYS DHSES, FEMA, Law Enforcement, Local Fire Districts, Health Department, RACES, Highway	Low	County, Homeland Security and other sources	Long Term
SC-12	Continue to provide tree trimming along roadways	Existing	Severe Storm, Severe Winter Storm	1	1-1, 1-3, 1-4	Highway	Emergency Services	Low	Local Funding	Long Term
SC-13	Interagency cooperation with Public Health, DSS, Aging and other agencies to identify vulnerable populations (elderly, homebound, homeless)	Existing	All Hazards	1, 5	1-4, 5-2	Emergency Services	Public Health, DSS, Aging	Low	County and other available sources	Long Term

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline
SC-14	Develop a toolbox series on planning topics, model laws, and regulatory tools	New & Existing	All Hazards	1, 2	1-6, 2-5	County EDT&P	NYS DOS, NYS DEC, NYS OPRHP, NYS DHCR, Greenway and other agencies	Low - High	NYS DOS, NYS DHCR and other NYS and Federal sources	Long Term
SC-15	Assist local municipalities with training opportunities for municipal planning and zoning officials utilizing updated FEMA floodplain maps	New	All Hazards	5	5-2, 5-3	County EDT&P with support from NYS and other sources	NYS DOS, NYS DEC, NYPF and other agencies	Low - High	NYS and other sources	Long Term
SC-16	Encourage the incorporation of conservation subdivision principals into subdivision review	New	Flood, Ground Failure	1, 4	1-7, 1-8, 4-5	County EDT&P and county agency resources	NYS DOS, NYS DEC and other agencies; NYPF	Low	CWC Local Technical Assistance Grants, NYS DOS Planning Grants, Greenway and other NYS and Federal sources	Long Term

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline
SC-17	Assist local municipalities in developing and updating site plan, subdivision, and zoning laws with specific development standards and guidelines	New	Flood, Ground Failure	4	4-4, 4-5	EDT&P can provide models and templates but it's up to the municipality to decide whether or not to adopt standards and guidelines	NYS DOS, NYS DEC and other agencies; NYPF	Low- Medium	Not provided	Long Term
SC-18	Encourage municipalities to incorporate sound development principals when reviewing development proposals	New	All Hazards	4	4-4, 4-5	EDT&P can provide templates but it's up to the municipality to decide whether or not to adopt standards and guidelines	NYS DOS, NYS DEC and other agencies; NYPF	Low	Not provided	Long Term
SC-19	Encourage towns and villages to adopt comprehensive plans and land use regulations to foster sound development principals	New	All Hazards	4	4-1, 4-2, 4-3, 4-4, 4-5	EDP&T and county agency resources	NYS DOS, and other agencies	Low - High	TBD	Long Term

Multi-Jurisdictional Hazard Mitigation Plan

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	trodding Nys Dos	Estimated Cost	Sources of Funding	Timeline
SC-20	Create and maintain a natural resources inventory for Saratoga County	New & Existing	Flood, Ground Failure	1, 4	1-4, 4-4	TBD	NYS DOS, NYS DEC and other agencies	Low - High	TBD	Long Term
SC-21	Authorize the Saratoga County Planning Board to review subdivisions under NYS GML239	New	All Hazards	All	All	Not provided	Not provided	Not provided	Not provided	Long Term
SC-22	Undertake a countywide comprehensive plan that would gather input from individual municipalities and take into consideration existing local comprehensive plans and regulatory tools to implement sound development principals	New & Existing	All Hazards	All	All	Not provided	NYS DOS, NYS	Medium	NYS DHCR TA Grants, NYS DOS, Greenway and other sources	Long Term
SC-23	Work with existing agencies and organizations to develop open space strategies and conservation standards to be met by new development projects	New	Flood, Ground Failure	4	4-1, 4-2, 4-3, 4-4, 4-5	county agency resources	NYS DOS, NYS DEC and other agencies	Low - High	TBD	Long Term

Multi-Jurisdictional Hazard Mitigation Plan

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline
SC-24	Conduct continued public and stakeholder outreach to promote awareness of this Plan and obtain ongoing public and stakeholder input. Specific activities shall include maintaining the public HMP website, media releases, maintaining copies of the plan in town halls, and may include public meetings.	Existing	All Hazards	1, 5	1-4, 5-3	SC Public Information Office; Local OEMs and stakeholders			Low	County Operati ng budget

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline
SC-25	Identify evacuation routes and how this information is accessible to the public. This should include pre-disaster actions required to make evacuation routes accessible. Additionally, this should include provisions available to assist those with access and functional needs.	N/A	All Hazards	1	1-3	Not provided		Not provided	County	Short Term
SC-26	Promote information technology protection by continuing best practice of network security, including redundant firewalls and education of county employees	Existing	All Hazards	1, 3	1-1, 3-6	County IT		Low	County	Short Term
SC-27	Implement the Fonda Road culvert up-sizing to increase the capacity of the county culvert and Canal Corp culvert to handle demand	Existing	Flood	1,3	1-1, 1-2, 3-6	Saratoga County	NYS Canal Corp	Medium	County, State, Federal	Short Term

Multi-Jurisdictional Hazard Mitigation Plan

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline
SC-28	Conduct education and outreach before and after flood through outreach at fairs, public messaging, and educational material and talks	N/A	Flood	2	2-1, 2-2, 2-3, 2-4, 2-5	Saratoga County Department of Public Health		Low	Grants/ Volunteer Programming	Short Term
SC-29	Utilize county social services to update Special Needs Registry. Develop a method to maintain and remove individuals from the list.	N/A	All Hazards	2	2-1	Saratoga County Office of Emergency Management	County Social Services	Low	County	Short Term
SC-30	Determine depth of infrastructure and replace shallow low-pressure lines.	Existing	Extreme Temperatures	1, 3	1-1, 3-6	Saratoga County Sewer District #1		High	User Rates; State Grants	Long Term

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline
SC-31	Conduct I & I reduction, including: raising manhole structures, creating/updating GIS database, access to infrastructure including floodplain areas, identify infrastructure in floodplain areas, and slip lining/replacement of lines and structures	Existing	Flood	1, 3	1-1, 3-6	Saratoga County	NYS Canal Corp	Medium	County; NYS; Federal	Short Term
SC-32	Conduct outreach to dairy producers and farmers to educate and familiarize them with extreme temperature and drought vulnerabilities and connect the producers with farm advisors and extension personnel who can assist with developing heat stress abatement practices and strategies for their specific situations.	N/A	Extreme Temperatures, Drought	2, 3	2-2, 2-5, 3-5	Saratoga County Office of Emergency Management		Low	Existing County Budget	Short Term

Initiative
Mitigation Initiative
Applies to New and/or Existing Structures*
Hazard(s) Mitigated
Goals Met
Objectives Met
Lead
Support
Estimated Cost
Sources of Funding
Timeline

^{*}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 County has selected a comprehensive range of actions/projects.

Table 9.1-7 Analysis of Mitigation Actions of the County of Saratoga

	Type of Mitigation	Action				
Hazard of Concern	Prevention	Property Protection	Public Education and Awareness	Natural Resource Protection	Emergency Services	Structural Projects
Drought	SC-4, 6, 24, 26, 29, 32	SC-4, 6	SC-4, 32	SC-4, 32	SC-4, 9, 11, 13	SC-4
Earthquake	SC-4, 6, 19, 24, 26, 29	SC-4, 6, 8, 19	SC-4, 10	SC-4	SC-4, 8, 9, 11, 13	SC-4
Extreme Temperatures	SC-4, 6, 12, 24, 26, 29, 32	SC-4, 6	SC-4, 32	SC-4, 32	SC-4, 9, 11, 13	SC-4, 30
Flooding (riverine, flash, coastal and urban flooding)	SC-1, 2, 4, 5, 6, 7, 16, 17, 18, 19, 21, 22, 23, 24, 26, 29	SC-1, 2, 4, 5, 6, 7, 16, 17, 18, 19, 21, 22, 23	SC-1, 2, 4, 5, 6, 7, 16, 17, 18, 19, 21, 22, 23, 28	SC-4, 14, 15, 16, 17, 18, 19, 21, 22, 23	SC-4, 6, 9, 11, 13	SC-4, 27, 31
Ground Failure	SC-4, 6, 12, 20, 23, 24 26, 29	SC-4, 6, 20, 23	SC-4, 5, 6, 7, 8, 9, 10	SC-4, 14, 20, 23	SC-4, 6, 9, 11, 13	SC-4
Invasive Species	SC-4, 6, 24, 26, 29	SC-4, 6	SC-4	SC-4	SC-4, 9, 11, 13	SC-4

Multi-Jurisdictional Hazard Mitigation Plan

	Type of Mitigation	Action				
Hazard of Concern	Prevention	Property Protection	Public Education and Awareness	Natural Resource Protection	Emergency Services	Structural Projects
Severe Storms (windstorms, thunderstorms, hail, lightning and tornados)	SC-1, 2, 4, 6, 12, 24, 26, 29	SC-1, 2, 4, 6	SC-1, 2, 4, 10	SC-4	SC-4, 6, 8, 9, 11, 13	SC-4
Severe Winter Storm (heavy snow, blizzards, ice storms)	SC-4, 6, 12, 24, 26, 29	SC-4, 6	SC-4, 10	SC-4	SC-4, 6, 8, 9, 11, 13	SC-4
Wildfire	SC-4, 6, 24, 26, 29	SC-4, 6	SC-4	SC-4	SC-4, 9, 11, 13	SC-4

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.

Prioritization of Mitigation Initiatives

Table 9.1-8 Prioritization of Mitigation Initiatives of the County of Saratoga

	I	7.1 0 1 11		or writigation in		County of Sara	8
1-3 Initiative #	# of Objectives Met	Benefits	Costs	Do Benefits equal or exceed Costs? (Yes or No)	ls project Grant eligible? (Yes or No)	Can Project be funded under existing programs/budgets? (Yes or No)	Priority (High, Med., Low)
SC-1	8	Н	Н	Υ	Υ	N	M-H*
SC-2	8	Н	Н	Υ	Υ	N	M-H*
SC-3	8	М	L	Υ	N	Υ	Н
SC-4	28	M	М	Y	N (Yes for 5-year update)	Y	Н
SC-5	11	Н	L	Υ	N	Υ	Н
SC-6	5	М	L	Υ	N	Υ	Н
SC-7	2	Н	М	Υ	N	N	М
SC-8	3	Н	М	Υ	N	N	М
SC-9	3	М	М	Υ	Υ	N	М
SC-10	5	L	L	Υ	N	Υ	Н
SC-11	28	L	L	Υ	N	Υ	Н
SC-12	3	L	L	Υ	Υ	Υ	Н
SC-13	5	L	L	Υ	N	Υ	М
SC-14	2	L	L	Υ	N	N	L
SC-15	2	L	L	Υ	N	N	L
SC-16	3	L	L	Υ	Υ	N	М
SC-17	3	L	L	Υ	N	Υ	Н
SC-18	2	L	L	Υ	N	Υ	Н
SC-19	5	L	L	Υ	N	Υ	Н
SC-20	2	L	L	Υ	N	Υ	Н
SC-21	28	L	L	Υ	N	Υ	Н
SC-22	28	L	L	Υ	Υ	N	М
SC-23	5	L	L	Υ	N	Υ	Н
SC-24	2	L	L	Υ	N	Υ	М
SC-25	1	М	Not provided	Not provided	N	Υ	М
SC-26	2	Н	L	Υ	N	Υ	Н
SC-27	3	Н	М	Υ	Υ	Υ	М
SC-28	5	Н	L	Υ	Υ	N	Н
SC-29	1	M	L	Υ	N	Υ	М

Initiative #	# of Objectives Met	Benefits	Costs	Do Benefits equal or exceed Costs? (Yes or No)	ls project Grant eligible? (Yes or No)	Can Project be funded under existing programs/budgets? (Yes or No)	Priority (High, Med., Low)
SC-30	2	Н	Н	Υ	Υ	N	M
SC-31	2	Н	М	Υ	Υ	Υ	Н
SC-32	3	Н	L	Υ	N	Υ	М

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.

9.1.6 Future Needs to Better Understand Risk/Vulnerability

None at this time.

9.1.7 Additional Comments

No additional comments at this time.

^{*}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.

9.1.8 NYS Mitigation Action Worksheets See next page.

NYS DHSES Action Worksheet							
Project Name:	Information Technology Protection						
Project Number:	SC-26						
Risk / Vulnerability							
Hazard of Concern:	All Hazards						
	Protection of County data and resources: Intrusion network, prevention of unauthorized accounts, lack of user security knowledge, and county communications.						
Description of the Problem:							
	Action or Project Int	ended for Implementation					
	Continue best practice of network security: red	dundant firewalls and education of co	ounty employees.				
Description of the Solution:							
Is this proje	ect related to a Critical Facility?	Yes X	No				
	ect must intend to protect to the 500-year floor	d event or the actual worst damage	scenario, whichever is greater)				
Level of Protection:	100%	The detail worst damage to	Protective data infrastructure by State				
Useful Life:	Based on yearly review	Estimated Benefits	and Federal laws				
Estimated Cost:	County Budget	(losses avoided):					
		nplementation	'				
	High	Desired Timeframe for	Within 6 months				
Prioritization:		Implementation:	Within O months				
Estimated Time Required for Project Implementation:	6 months to one year	Potential Funding Sources:	Reallocation of county budget				
Responsible Organization:	County IT	Local Planning Mechanisms to be Used in Implementation, if any:	N/A				
	Three Alternatives Cons	idered (including No Action)					
	Action	Estimated Cost	Evaluation				
	No Action	\$0					
Alternatives:	Conduct a study to analyze the County's IT infrastructure to identify opportunities to improve security and protect data.	Unknown	Understanding the extent of the County's vulnerabilities will allow for comprehensive solutions to be identified and implemented.				
	N/A						
Progress Report (for plan maintenance)							
Date of Status Report:							
Report of Progress:							
Update Evaluation of the Problem and/or Solution:							

NYS DHSES Action Worksheet							
Project Name:	Fonda Road Culvert Up-Sizing						
Project Number:	SC-27						
Risk / Vulnerability							
Hazard of Concern:	Flooding						
Description of the Problem:	Two culverts on Fonda Road in the Village of Waterford are undersized due to development up gradient of culvert.						
	Action or Project Into	ended for Implementation					
Description of the Solution:	The capacity of the County Culvert and Canal Corp Culvert need to be increased to handle the demand.						
Is this proje	ect related to a Critical Facility?	Yes X	No X				
	ect must intend to protect to the 500-year floor	d event or the actual worst damage	scenario, whichever is greater.)				
Level of Protection:	100 year flood	T	It will prevent losses to the road bed,				
Useful Life:	50 years	Estimated Benefits	roadway, and private property.				
Estimated Cost:	\$900,000 for both culverts	(losses avoided):					
	Plan for In	nplementation					
Prioritization:	Medium	Desired Timeframe for Implementation:	ASAP				
Estimated Time Required for Project Implementation:	3 months	Potential Funding Sources:	FEMA Pre-Disaster Mitigation Program; FEMA Hazard Mitigation Grant Program; NYSDOT (ex. BRIDGE NY)				
Responsible Organization:	Saratoga County and NYS Canal Corp	Local Planning Mechanisms to be Used in Implementation, if any:	Engineering				
	Three Alternatives Consi	idered (including No Action)					
Alternatives:	Action	Estimated Cost	Evaluation				
	No Action	\$0					
	Only County Culvert is replaced	\$450,000	This will push the flooding downstream and other private property could be damaged.				
	system to determine the extent of immediate repairs; allows for		prioritization of projects and exploration				
Progress Report (for plan maintenance)							
Date of Status Report:							
Report of Progress:							
Update Evaluation of the Problem and/or Solution:							

NYS DHSES Action Worksheet							
Project Name:	Education and Outreach Before and After Flood						
Project Number:	SC-28						
Risk / Vulnerability							
Hazard of Concern:	Flood						
Description of the Problem:	People may be unaware of actions they should take to protect themselves and their pets prior to a flood. They also may be unaware of the health hazards that can occur after a flood.						
	Action or Project Inte	ended for Implementation					
Description of the Solution:	Provide outreach through fairs, public messaging, and education materials and talks. Description of the						
Is this proje	ect related to a Critical Facility?	Yes	No X				
(If yes, this proj	ect must intend to protect to the 500-year flood	l event or the actual worst damage	scenario, whichever is greater.)				
Level of Protection:	100-year		High				
Useful Life:	Ongoing	Estimated Benefits	Ĭ				
Estimated Cost:	Low	(losses avoided):					
	Plan for In	nplementation					
D : :4: 4:	High	Desired Timeframe for	Immediately				
Prioritization:		Implementation:	·				
Estimated Time Required for Project Implementation:	Short-term (1 to 5 years)	Potential Funding Sources:	Grants/Volunteering Programming				
Responsible Organization:	Saratoga County Department of Public Health	Local Planning Mechanisms to be Used in Implementation, if any:	Emergency Preparedness Plan, Outreach, Volunteer Programming				
	Three Alternatives Consider	dered (including No Action)					
	Action	Estimated Cost	Evaluation				
	No Action	\$0					
Alternatives:	Website information	0	While this tool enables the County to be able to see who interacted, it is not interactive.				
	Public messaging through social media	0	Depends on people with computers and use of social media.				
Progress Report (for plan maintenance)							
Date of Status Report:		•					
Report of Progress:							
Update Evaluation of the Problem and/or Solution:							

NYS DHSES Action Worksheet						
Project Name:	Special Needs Registry					
Project Number:	SC-29					
Risk / Vulnerability						
Hazard of Concern:	Special Needs Registry – Public Education and Revamping to make current (all hazards)					
Description of the Problem:	General public is not aware of this registry. Not everyone that should be on the list is on it. Additionally, some individuals may have moved or passed away. They need to be removed from the list.					
	Action or Project Into	ended for Implementation				
Description of the Solution:	Utilize County Social Services to get people re individuals from the list.		nethod to maintain and remove			
Is this proje	ect related to a Critical Facility?	Yes	No X			
	ect must intend to protect to the 500-year floor	d event or the actual worst damage	scenario, whichever is greater.)			
Level of Protection:	N/A		Special needs registry will remain			
Useful Life:	N/A	Estimated Benefits	current.			
Estimated Cost:	County Funding	(losses avoided):				
		nplementation	•			
	Medium	Desired Timeframe for	2019			
Prioritization:	Wedam	Implementation:	2010			
Estimated Time Required for Project Implementation:	1.5 years	Potential Funding Sources:	County Budget			
Responsible Organization:	Office of Emergency Services	Local Planning Mechanisms to be Used in Implementation, if any:	County Office for the Aging, County Public Health Office, and public outreach			
	Three Alternatives Consi	dered (including No Action)				
	Action	Estimated Cost	Evaluation			
	No Action	\$0				
Alternatives:	End registry	\$0	Leaves special needs population vulnerable			
	Begin new registry	\$0	Lose all records – current and outdated			
Progress Report (for plan maintenance)						
Date of Status Report:						
Report of Progress:						
Update Evaluation of the Problem and/or Solution:						

NYS DHSES Action Worksheet						
Project Name:	Shallow Infrastructure Replacement (Saratoga County Sewer District #1)					
Project Number:	SC-30					
Risk / Vulnerability						
Hazard of Concern:	Freezing Temperatures					
	Pipes freezing causes environmental concerns	s and loss of service.				
Description of the						
Problem:						
		ended for Implementation				
	Determine depth of infrastructure and replace	shallow, low pressure lines.				
D : .: C.1						
Description of the Solution:						
Solution.						
Is this proje	ect related to a Critical Facility?	Yes X	No			
(If yes, this proj	ect must intend to protect to the 500-year floor	d event or the actual worst damage	scenario, whichever is greater.)			
Level of Protection:	Extreme Cold Temperatures	T	Environmental; Less equipment wear			
Useful Life:	30 years	Estimated Benefits (losses avoided):				
Estimated Cost:	\$3 million +	(losses avoided):				
	Plan for In	nplementation				
D	Medium	Desired Timeframe for	Done in 10 years			
Prioritization:		Implementation:				
Estimated Time	5 years	Potential Funding Sources:	User rates; NYS DEC/EFC Wastewater			
Required for Project			Infrastructure Engineering Planning Grant			
Implementation:	Saratoga County Sewer District #1	I 101 ' M 1 '	n/a			
Responsible	Saratoga County Sewer District #1	Local Planning Mechanisms to be Used in Implementation,	n/a			
Organization:		if any:				
	Three Alternatives Consi	dered (including No Action)				
	Action	Estimated Cost	Evaluation			
	No Action	\$0				
	Plan to Failure	2x original cost	Previous/Current; Emergency Repairs			
Alternatives:						
7 Hieriaar ves.						
	Conduct a study to understand the extent of shall infrastructure and map its location. Use	Unknown	Understanding the full extent of the infrastructure will ensure that solutions			
	the results of the study to analyze solutions.		provide countywide coverage.			
Progress Report (for plan maintenance)						
Date of Status	l Togress Report (I	for plan maintenance;				
Report:						
Report of Progress:						
II 1 d E 1 d' C						
Update Evaluation of the Problem and/or						
Solution:						
Solution.						

NYS DHSES Action Worksheet								
Project Name:	I & I Reduction (Saratoga County Sewer District #1)							
SC-3	SC-31							
		ulnerability						
Hazard of Concern:	Flooding							
Description of the Problem:	Surface and subsurface infiltration; Location of infrastructure; Creates excess flow and strain on system (prolonged pump run times); Limited access to infrastructure (not limited to manholes).							
		ended for Implementation						
Description of the Solution:	Raising manhole structures; Creating/updating infrastructure in floodplain areas; Slip lining/rep		ture, including floodplain areas. Identify					
Is this proje	ct related to a Critical Facility?	Yes X	No					
	ect must intend to protect to the 500-year flood	event or the actual worst damage	scenario whichever is greater)					
Level of Protection:	500 year flood	event of the actual worst damage.	Environmental; Less equipment wear;					
Useful Life:	30 years	Estimated Benefits	Greater infrastructure capacity.					
Estimated Cost:	\$100 million	(losses avoided):	, ,					
Estimated Cost.		1						
		nplementation	Lore					
Prioritization:	High	Desired Timeframe for Implementation:	ASAP					
Estimated Time Required for Project Implementation:	Interceptor relining (2 years); Access to infrastructure Potential Funding Sources: FEMA HMA, EPA Drinking Wa Revolving Fund (SRF) and Cle Water SRF, EPA Water Infrastructure		FEMA HMA, EPA Drinking Water State Revolving Fund (SRF) and Clean Water SRF, EPA Water Infrastructure Finance and Innovation Act program					
Responsible Organization:	Saratoga County and NYS Canal Corp	Local Planning Mechanisms to be Used in Implementation, if any:	Engineering					
	Three Alternatives Consider	dered (including No Action)						
Alternatives:	Action	Estimated Cost	Evaluation					
	No Action	\$0						
	Only County culvert is replaced	\$450,000	This will push the flooding downstream and other private property could be damaged.					
	Identify and map all infrastructure and analyze its proximity to floodplain areas. Use results of analysis to identify corrective actions.		Understanding infrastructure location and risk will result in well-planned solutions.					
Progress Report (for plan maintenance)								
Date of Status Report:		,						
Report of Progress:								
Update Evaluation of the Problem and/or Solution:								