

Village of Colonie

This section presents the jurisdictional annex for the Village of Colonie for the 2024 Albany County Hazard Mitigation Plan (HMP). It includes information and guidance intended to assist public and private entities in reducing losses from future natural hazard events. This jurisdictional annex focuses on actions that can be implemented prior to a natural hazard event to reduce adverse impacts to people and property; it is not intended to serve as guidance for what to do when a natural hazard event occurs or how to recover following a natural hazard event. This jurisdictional annex provides an overview of the community and its critical facilities, evaluates the community's vulnerability to various natural hazards, assesses the community's existing capability to mitigate natural hazards, and identifies actions that could be implemented to mitigate natural hazard risks and, ultimately, reduce damages to people and property resulting from natural hazard events.

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1 CONTACT INFORMATION

The primary contacts for Albany County regarding this Jurisdictional Annex are identified as follows:

- Primary: Tom Tobin, Village Mayor, (518) 869-7562
- Alternate: Ed Sim, Village Trustee / Deputy Mayor, (518) 869-7562
- Alternate: Jamie Blot, Village Clerk, (518) 869-7562

Village of Colonie Website: [Village of Colonie, NY Departments, Permits, Forms, Links & Events \(colonievillage.org\)](https://www.colonievillage.org)

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2 COMMUNITY SNAPSHOT

2.1 Demographics

The 2020 Census estimated that 7,752 people live in the Village of Colonie. The Village of Colonie's population has decreased by 0.6% since the 2010 Census (7,805). The median age in the Village of Colonie is 43 years, and 17.3% of the population is over the age of 65. The median household income in the Village of Colonie is \$96,495.

2.2 Location & Land Characteristics

The Village of Colonie is located within the Town of Colonie and north of the City of Albany. The Village of Colonie covers approximately 3.3 square miles. The properties within the Village of Colonie have a total assessed value of approximately \$618,482,359, which is distributed across a variety of property classes.

Major transportation corridors in the Village of Colonie include I-87, which runs through the Village, and Central Ave.

2.3 Governing Body

A village mayor, a village trustee / deputy mayor, and three other village trustees govern the Village of Colonie.

2.4 Recent and Anticipated Future Development

According to a review of 239 Referrals since the last County HMP (2018), several new developments have been approved or proposed within the Village. The proposals that the Village received are summarized in Table 2-1 below. Some of the proposals for the Village may be located in the 0.1% or 0.2% annual chance flood event area, but this was not specified in the proposal. Additionally, building permits that have been issued for the Village between 2018 to 2022 are summarized in Table 2-2 below, based on data from the Capital District Regional Planning Commission (CDRPC). These developments may affect the Village's vulnerability to the hazards identified in this HMP.

Table 2-1. Developments from 2018 to 2023

Project Name	Project Location	Consideration	Date
Warehouse Facility Subdivision	124 Lincoln Ave. (adjacent to CSX tracks)	Request to subdivide a land parcel into 3 lots. Lot #1 and #2 will each include the construction of two new warehouse facilities. Lot #3 will remain as the existing Colonie Block and Supply Company. A shared access driveway will be constructed across Lot 1.	2/15/2018
Starbucks	1770 Central Ave.	Site plan review for the construction of a Starbucks Café (2,000 sq. ft.) with a drive-thru in the existing commercial plaza at 1770 Central Ave.	2/15/2018
Wendy's Restaurant	1770 A Central Ave.	Site plan review for a new Wendy's Restaurant. The project involves demolition of the existing structure which burned down and installation of a new restaurant on the existing building pad.	8/16/2018
Capital Volvo of Albany	350 New Karner Road	The construction of a new 18,500 SF car dealership and showroom.	10/24/2019
Goldstein Storage Facility	1653 Central Ave.	A subdivision review and site plan review that entails separating a 2.63 acre parcel from an existing car dealership and constructing a 3-story 107,352 SF storage facility with 107 parking spaces.	4/2/2020
Hoffman Car Wash	1755 Central Ave	Site plan review for accessory structures-automated teller stations added to the rear site abutting residential A zone and add a drive by lane to the site. No changes to ingress or egress.	9/17/2020
29-31 Vly Road Minor Subdivision	29 - 31 Vly Rd	Minor subdivision of 29 - 31 Vly Road into one of 2.8 acres with existing Church and the second of 11.3 acres.	9/17/2020
Stewart's Shop	1560 Central Ave/1 Lincoln Ave	Site plan review for replacing the existing gas station and vacant commercial building with a new 3975 sf Stewart's shop with self service gasoline.	3/18/2021
1814 Central Avenue	1814 Central Avenue	Site plan review for expansion of office max space to accommodate a specialty grocer called Farmer's India market.	5/27/2021

Project Name	Project Location	Consideration	Date
Hoffman's Re-Zone	1755 Central Ave	Amendment of zoning ordinance to rezone a portion of Single Family Residential A to Commercial A zoning district to be filed under Local Law #1 of 2021 to change Village Code Sections 242-8,242-18.	8/19/2021
Opt-out of Licensure for On-site Cannabis Consumption within the Village of Colonie	Village of Colonie	Adoption of Local Law #2 of 2021 by the Village of Colonie to opt out of onsite consumption allowance in the Village jurisdiction with regards to cannabis.	11/18/2021
Village of Colonie - Local Law #1 of 2022	Village of Colonie	Adoption of local law to formalize procedures for certain village procedures for certain village procurements.	2/17/2022
1691 Central Ave - Caninets-To-Go	1691 Central Ave	Site plan review for conversion of autobody shop into a retail store including site improvements for parking, access and landscaping.	9/15/2022
Proposed Redevelopment - Restaurant	1707 Central Ave	Site plan review for the construction of a new 2,325 SF single-story quick serve restaurant with a patio. The existing office building to be demolished.	9/21/2023

Table 2-2. Building Permit Issuance (2018 to 2022)

Year	Building Type	Units
2018	1	1
2019	1	1
2020	1	1
Total:		3

Data Source: Capital District Regional Planning Commission (<https://cdrpc.org/data/housing>)

3 CAPABILITIES ASSESSMENT

3.1 Planning Mechanisms and Capabilities

The Village of Colonie identified the following planning mechanisms and capabilities that can support the Village in hazard mitigation efforts. These capabilities can be used to support the mitigation strategy in several ways. For example, administrative capabilities can assist in implementing the mitigation actions as identified in the mitigation strategy. Existing building codes and land use regulations provide a foundation for mitigation planning and provide guidelines for infrastructure repair, new developments, and other actions. Educational programs may be developed further in order to more fully incorporate hazard mitigation. Table 3-1 elaborates on existing building codes, land use and development ordinances/regulations, and many other capabilities which can support hazard mitigation.

Table 3-1. Planning Mechanisms & Capabilities

Planning Mechanism	In Place? (Yes/No)	Notes (Does the plan address hazards? Can the capability be used to implement mitigation actions? When was it last updated?)
Administration		
Maintenance Programs	No	<ul style="list-style-type: none"> • 5-yr plan for fleet vehicles and equipment • Routine maintenance checks on all Village-owned buildings • Safety analysis check each year with safety committee (Village Clerk and Superintendent for Village Works) – focuses on Village-owned property and buildings
Mitigation Planning Committee	No	

Planning Mechanism	In Place? (Yes/No)	Notes (Does the plan address hazards? Can the capability be used to implement mitigation actions? When was it last updated?)
Mutual Aid or Shared Services Agreements	No	<ul style="list-style-type: none"> • Fire Dept. has a mutual aid program with Town of Colonie and Albany County (shared response) • MOU with V. of Menands for DPW Equipment and personnel (originated during COVID) • Shared services agreement with T. of Colonie for water from Latham Water District and Town houses their fire equipment at the Village's Fire Dept.
Planning Board	Yes	
Zoning Board	Yes	
Other		
Development Approvals		
Building Code	Yes	
Building Code Effectiveness Grading Schedule (BCEGS) Evaluation	No	
Fire Department ISO Rating	Yes	4
Site Plan Review Requirements	Yes	Through Planning Board
Other		
Funding Resources		
Authority to Levy Taxes	No	
Capital Improvement Project Funds	Yes	Several capital reserve funds in place (DPW, streets, Village Hall)
Federal Funding Programs (i.e., USDA, FEMA, others)	No	No active federal funds now, but do apply for federal funding opportunities
General Obligation Bonds and/or Special Tax Bonds	Yes	Last bond was a sewer bond in the 1960s. Paid off now.
Impact Fees for New Development	Yes	Can give land for preservation as open space, if not possible, then can pay a park mitigation fee instead

Planning Mechanism	In Place? (Yes/No)	Notes (Does the plan address hazards? Can the capability be used to implement mitigation actions? When was it last updated?)
State Funding Programs (i.e., NYSEFC, NYSOCR, NYSDEC, others)	Yes	Have a few grants through DASNY for municipal buildings (Village Hall renovations, a new senior bus, and a new sign for the entrance at Cook Park)
Utility Fees (i.e., water, sewer, stormwater, gas, electric)	Yes	Water and sewer; each are semi-annual
Other		
Land Use Regulations		
Density Controls	Yes	Have multiple zoning districts that define densities by zone
Flood Insurance Rate Maps	Yes	
NFIP Participant / Floodplain Ordinance	No	The Village does not have a floodplain ordinance or floodplain administrator
Hillside Development Regulations	No	
Open Space Preservation	Yes	Greenspace requirement for all development projects; Patroon Creek Drainage Way
Stormwater Management Regulations	Yes	
Streambank Setback Regulations	No	See Patroon Creek Drainage Way
Subdivision Regulations	Yes	Chapter 199: Subdivision of Land
Zoning Ordinance	Yes	Chapter 242: Zoning
Other	Yes	Chapter 124: Flood Damage Prevention
Natural Resources		
Forest/Vegetation Management	No	Planning Commission is very particular about landscape requirements and tree replacements
Stream Corridor Management	Yes	Patroon Creek Drainage Way
Stream Dumping Regulations	No	Have signage at Cook Park re: no dumping and on storm drains

Planning Mechanism	In Place? (Yes/No)	Notes (Does the plan address hazards? Can the capability be used to implement mitigation actions? When was it last updated?)
Urban Forestry and Landscape Management	No	
Watershed Management	Yes	Chapter 237: Watercourses
Wetland Regulations	Yes	Chapter 128: Freshwater Wetlands
Other	Yes	Chapter 95: Clearing, Grading and Erosion Control Chapter 114: Environmental Quality Review
Plans		
Capital Improvement Plan	Yes	5-year vehicle replacement program, but no other plan
Comprehensive Emergency Management Plan	Yes	Developed during covid; reviewed and updated annually
Comprehensive Plan	Yes	Last updated in about 2010
Continuity of Operations Plan	No	
Economic Development Plan	No	
Other		
Programs/Organizations		
Climate Smart Community	No	
Local Emergency Preparedness/Disaster Response Organizations	Yes	Red Cross, Village of Colonie Fire Department, Building Dept and Code Enforcement Officers
Local Environmental Protection Organizations	No	
National Weather Service StormReady Certification	No	
Outreach Programs	Yes	<ul style="list-style-type: none"> • Use the Next Door app to reach people • Recently implemented Constant Contact (use this to send alerts re: water main breaks, bill due, etc.) – have close to 1,000 residents signed up • Have a newsletter, “the Villager.” Mailed quarterly to residents

Planning Mechanism	In Place? (Yes/No)	Notes (Does the plan address hazards? Can the capability be used to implement mitigation actions? When was it last updated?)
Partnerships with private entities addressing mitigation or disaster response	Yes	Partnered with Town of Colonie about a year ago to send out an emergency notice when there was a boil notice. This incident triggered the use of Constant Contact.
School Programs or Adult Educational Programs	No	<ul style="list-style-type: none"> The Village has a recreational program in the summer for school-aged children (June – August); three parks in the Village that the summer program uses DPW has visited schools with equipment Used to have a recycling program at schools
Other		
Staff Positions		
Civil Engineer	Yes	Contract with a firm for this service (Laberge Group)
Code Enforcement Officer	Yes	Yes, three
Emergency Manager	Yes	The Mayor
Floodplain Administrator	No	
Planner/GIS Coordinator	No	Use Albany County's services
Other		
Technical Abilities		
Grant Writing	Yes	In-house staff
Hazard Information Centers	No	
Hazard Warning Systems	No	Constant Contact
Other		

The Village's HMP update will be incorporated into and referenced by future updates of the plans, policies, ordinances, programs, studies, and reports listed in Table 3-1. In particular, the Village should review Table 3-1 when completing updates to the Comprehensive Plan and amendments to the Zoning Code. As part of this review, the Village may strategize opportunities for building the hazard mitigation mechanisms and capabilities currently marked "No" in the table (where feasible) by designating lead agencies in charge of closing such gaps, connecting with partners and technical support resources, establishing a timeline and next steps, estimating costs, and applying for grant funding when necessary. In an update to the Comprehensive Plan, this

process may result in the development and inclusion of detailed proposed action items and implementation frameworks that address gaps in hazard mitigation mechanisms and capabilities. In an amendment to the Zoning Code, this process may result in the modification of existing laws or the drafting and adoption of new laws to address gaps in hazard mitigation mechanisms and capabilities.

Furthermore, the Village would like to expand and improve the capabilities listed in Table 3-1 in the following ways:

- Establish a back-up water supply. Currently the Village's only source of drinking water comes from the Town of Colonie.

Additional strategies to expand and improve hazard mitigation capabilities are detailed in Section 10 of the main body of the HMP.

3.2 Integration of Planning Efforts

The Village of Colonie understands the importance of considering an integrated approach when developing municipal plans, policies, programs, and regulations. The Village intends to reference the 2024 Albany County HMP as part of the process for future updates to the plans, policies, programs, and regulations listed in Table 3-1, above, and for creating new regulations as applicable. This may include adding hazard mitigation as an agenda item at Village Board meetings where local laws are being developed or updated, including hazard mitigation considerations in any templates used to make new laws, adopting an ordinance that all new local laws need to consider hazard mitigation if applicable, or simply making local officials aware of the need to consider hazard mitigation in any plan updates. Additionally, the Village of Colonie may use the local laws assessment (included in Section 4 of the main body of the HMP) to reference hazard mitigation related regulations that other jurisdictions in the County have adopted and consider implementing similar regulations if desired.

The Village has also included a mitigation action in the mitigation strategy to review and update municipal regulations to incorporate hazard mitigation.

All of these actions will help expand and improve upon these existing capabilities so that they reduce risk and better support hazard mitigation.

4 HAZARD IDENTIFICATION AND RISK ASSESSMENT

4.1 Profiled Hazards

In this HMP Update, the County reviewed multiple natural hazards, and determined to profile five natural hazards: flooding, severe storm, drought, extreme temperatures, and landslide. Descriptions of each of these hazards are included in Section 6 of the main body of the HMP.

The Village of Colonie has chosen to profile the same hazards as the County. No hazards were omitted and there were no additional hazards identified as unique and specific to the Village of Colonie.

The hazard analysis criteria used to evaluate the Village's vulnerability to each natural hazard are summarized in Table 4-1, and the results are presented in Table 4-2. All rankings were completed subjectively, with the guidelines detailed in Table 4-1.

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Table 4-1. Hazard Analysis Criteria

Score	Impact (Damage to property, crops, people)	Frequency*	Extent	Level of Preparedness	Total Score	Overall Vulnerability
1	Minor	Rare	One or two problem areas within the jurisdiction	Well Prepared	4 to 5	Low
2	Moderate	Infrequent	A significant portion of the jurisdiction	Moderately Prepared	6 to 8	Moderate
3	Major	Regular	The entire jurisdiction	Not Prepared	9 to 12	High

*Frequency is defined roughly as follows:

- Rare – Every 15 years or less
- Infrequent: Less than once a year but greater than once every 15 years
- Regular: Approximately yearly or multiple times a year

Table 4-2. Hazard Vulnerability by Event

Hazard Event	Impact (Damage to property, crops, people, etc.)	Frequency of Occurrence	Extent of Impacts	Level of Preparedness	Overall Vulnerability	Jurisdiction Rank	Notes (Anticipated Future Changes)
Flooding (Riverine, Coastal, Urban, Flash, Ice Jam, Dam or Levee Break, Other)	2	3	1	2	8 – moderate	3	If there was a large flood event at the pond in Cook Park, it could cause a lot of damage in the park
Drought	1	1	3	2	7 - moderate	4	
Severe Storm (Hail, Ice Storms, Wind, Thunderstorms and Lightning, Winter Storms, Hurricane, Tropical Storms, Tornado, Power Outage)	3	3	3	1	10 - high	1	
Extreme Temperatures (Cold Wave, Heat Wave, Air Pollution Effects)	2	3	3	1	9 - high	2	
Landslide	1	1	1	3	6 – moderate	5	

4.2 Hazard Event History

A complete history of natural hazard events within the County – based on NOAA’s Severe Storm Database – is included in Section 6 of the main body of the HMP. The following is a subset of events that occurred specifically within the Village. These records informed the development of mitigation actions by demonstrating which hazards have historically had the greatest impact on the Village.

Table 4-3. Hazard Event Records, 2018-2023

Event Type	Date	Magnitude	Estimated Property Damage	Estimated Crop Damage
Thunderstorm/Wind	5/4/2018	50	0	0
Flash Flood	8/4/2020	0	0	\$1000
Total			\$0	\$1000

Note: The table above lists only the hazard events that were recorded as occurring specifically within the Village. For records of County-wide hazard events, see the Albany County Annex. Units for magnitude are expressed as the following: Thunderstorm Wind: knots.

4.3 Floodplain Statistics

Key water features in the Village are described in Section 2.2 of this annex. FEMA provides flood insurance rate maps for the municipality and GIS data on the spatial location of floodplains. The 1% annual chance (100-year) flood event area generally corresponds with areas that are at high risk of flooding, and the 0.2% annual chance (500-year) flood event area generally corresponds with areas that are at moderate risk of flooding. Out of the 3.3 square miles in the Village, 0 are located within the 1% annual chance flood event area and therefore 0 are located within 0.2% annual chance flood event area (inclusive of the 1% flood event area). The estimated number and structure value of parcels in the municipality that intersect mapped floodplains are summarized in Table 4-5. There are 0 parcels in the Village located within the 1% annual chance flood event area. Inclusive of these parcels in the 1% annual chance flood event area, there are 0 parcels in the Village located within the 0.2% annual chance flood event area.

Table 4-4. Summary of Areas in Floodplains*

Total Area (square miles)	Percent of Total Area in 1% Annual Chance Floodplain	Percent of Total Area in 0.2% Annual Chance Floodplain
3.3	0	0

* Calculated areas and percentages are informational estimates only and are not to be used for official purposes. The 0.2% annual chance floodplain in this table includes the area in the 1% annual chance floodplain.

Table 4-5. Estimated Number and Structure Value of Parcels within Mapped Floodplains

Property Class	Number of Parcels in 1% Annual Chance Floodplain	Approx. Structure Value* in 1% Annual Chance Floodplain	Number of Parcels in 0.2% Annual Chance Floodplain**	Approx. Structure Value* in 0.2% Annual Chance Floodplain**
Unclassified	0	0	0	0
Agricultural	0	0	0	0
Residential	0	0	0	0
Vacant	0	0	0	0
Commercial	0	0	0	0
Recreation and Entertainment	0	0	0	0
Community Services	0	0	0	0
Industrial	0	0	0	0
Public Services	0	0	0	0
Parks and Open Space	0	0	0	0
Total	0	0	0	0

*Structure Value for each parcel was estimated by subtracting Land Assessed Value from Total Assessed Value. If the entire parcel or a subset of the parcel was contained within the floodplain, the structure on that parcel was included regardless of the structure's location on the parcel.

** The 0.2% Annual Chance Floodplain in this table includes the area in the 1% Annual Chance Floodplain.

4.4 National Flood Insurance Program

Long-term mitigation of potential flood impacts can be best achieved through comprehensive floodplain management regulations and enforcement at a local level. The National Flood Insurance Program (NFIP), regulated by FEMA, aims to reduce the impact of flooding on private and public structures by providing affordable insurance for property owners. The program encourages local jurisdictions to adopt and enforce floodplain management regulations in order to mitigate the potential effects of flooding on new and existing infrastructure (<https://www.fema.gov/flood-insurance>).

Communities that participate in the NFIP adopt floodplain ordinances. If an insured structure incurs damage costs that are over 50% of its market value, the owner must comply with the local floodplain regulations when repairing or rebuilding the structure. A structure could be rebuilt at a higher elevation, or it could be acquired and

demolished by the municipality or relocated outside of the floodplain. Insured structures that are located within floodplains identified on FEMA's Flood Insurance Rate Maps (FIRMs) may receive payments for structure and content losses if impacted by a flood event.

The NFIP and other flood mitigation actions are important for the protection of public and private property and public safety. Flood mitigation is valuable to communities because it:

1. Creates safer environments by reducing loss of life and decreasing property damage;
2. Allows individuals to minimize post-flood disaster disruptions and to recover quicker (homes built to NFIP standards generally experience less damage from flood events, and when damage does occur, the flood insurance program protects the homeowner's investment); and
3. Lessens the financial impacts on individuals, communities, and other involved parties (<https://www.fema.gov/flood-insurance>).

The Village of Colonie currently participates in the NFIP (community ID 365377A), and its current FIRM(s) are noted as NSFHA. FIRMs are available via FEMA's Flood Map Service Center (<https://msc.fema.gov/portal/home>). Digital FIRM data is also available for Albany County via FEMA's National Flood Hazard Layer Viewer, which was referenced during the development of this annex. Information from this digital FIRM data was incorporated into this Hazard Mitigation Plan where appropriate (for example, when identifying which critical facilities are located in the floodplain).

The Village's local law governing floodplain development and NFIP compliance is located in Chapter 124. Flood Damage Prevention. The Village will continue to comply with the NFIP by enforcing floodplain management requirements and regulating new development in special flood hazard areas, among other required duties. Staff capabilities to implement the NFIP and local floodplain regulations are listed in Table 3-1 of this annex.

According to NFIP claims data provided by FEMA, there are 0 repetitive loss properties in the Village of Colonie. Repetitive loss properties are properties that have had at least two paid flood losses of more than \$1,000 each in any 10-year period since 1978.

4.5 Considerations for Future Hazards

No concerns about future changes in hazard impacts specific to the Village were identified during the hazard mitigation planning process. The effects of climate change and other factors on future hazard events in Albany County are covered in more detail in Section 6 of the main body of the HMP.

5 ASSETS AND VULNERABILITIES

5.1 Critical Facilities

FEMA defines a critical facility as one that provides services and functions essential to a community, especially during and after a disaster. Critical facilities should remain accessible and functional before, during and after disasters. Additionally, critical facilities include those that requires a special emergency response in the event of hazardous incidents, such as buildings that store hazardous materials. Examples of critical facilities include community lifelines, such as fire departments, EMS services, police stations, water and wastewater services, medical facilities, highway garages, and hazardous materials. They also include facilities such as Town halls, schools, and senior centers. In the hazard mitigation planning process, each jurisdiction ultimately decided which facilities they consider to be critical facilities for their community.

Table 5-1 denotes the name, type, and location of the critical facilities within the Village of Colonie, and any particular vulnerabilities of note. More information about hazard vulnerability, including the vulnerability of community assets to natural hazard events, is included in Section 8 of the main body of the HMP. Additional vulnerabilities by location are assessed in the HAZUS analysis, included in the appendices of the HMP

Table 5-1. Critical Facilities*

[Table redacted due to sensitive content]

Per 2022 NYS Hazard Mitigation Planning Standards, jurisdictions must identify all of their critical facilities, determine the facilities' exposure to a 1% and 0.2% annual chance flood event, and document if the facilities are protected to a 0.2% annual chance flood event or previous worst case flood event (whichever is greater). For facilities that do not meet this level of protection, the jurisdiction must either include an action to meet or exceed this criterion or explain why it is not feasible to do so.

As indicated in Table 5-1, it is unknown whether several of the Village's critical facilities are protected to a 0.2% annual chance (500-year) flood event or previous worst case flood event (whichever is greater). The Village has included an action in Section 7.2: New Mitigation Actions related to these critical facilities. Section 9 of the main body of the HMP provides additional detail on how the County and local municipalities may assess critical facilities' level of protection to the 1% and 0.2% annual chance flood event.

5.2 High Hazard Potential Dams

According to the NYSDEC Division of Water Bureau and Flood Protection and Dam Safety, there are four hazard classifications of dams in New York State. A High Hazard Potential Dam is a dam located in an area where dam failure may cause loss of human life; serious damage to homes, industrial, or commercial buildings; essential public utilities; main highways or railroads; and will cause extensive economic loss.

The Village of Colonie does not have any high hazard potential dams located within the municipal boundaries.

5.3 Additional Jurisdiction/Public Identified Vulnerabilities

In addition to critical facilities, it is important to take a holistic approach to identifying assets in the jurisdiction and how they may be vulnerable to the hazards identified in the HMP. Examples of other assets considered include:

- People (residents, workers, visiting populations, and socially vulnerable populations like seniors, individuals with disabilities, lower-income individuals, etc.)
- Other structures (community centers, historic places, planned capital improvement)
- Economic assets (major employers, primary economic sectors, key infrastructure like telecommunications networks)
- Natural, historic and cultural resources (areas of conservation, beaches, parks, critical habitats)
- Critical facilities and infrastructure (hospitals, law enforcement, water, power)
- Community activities (major local events such as festivals or economic events like farming or fishing)

Aside from critical facilities listed in Table 5-1, the Village of Colonie has identified the following additional assets for consideration in hazard mitigation planning and included the following notes:

Table 5-2. Additional Assets

[Table redacted due to sensitive content]

6 SUMMARY OF HAZARD IMPACTS AND VULNERABILITIES

6.1 Flood

The Village of Colonie has ranked their overall vulnerability to flood events as moderate, as indicated in Table 4-2. According to Village representatives, flood events occur regularly in the jurisdiction and affect a significant portion of the jurisdiction, causing moderate damage. The Village feels they are moderately prepared for flood events.

Information on flood event records (Section 4.2 of this annex), high hazard potential dams (Section 5.2), floodplain statistics (Section 4.3), and participation in the NFIP (Section 4.4) are described above, illustrating the impact of flooding on critical facilities and other structures. The Village is particularly concerned about the impacts of flooding on their parks.

Future vulnerability to flood events is determined by many factors, such as climate change, land use, and population changes, as well as the implementation of mitigation and adaptation strategies. Climate change is expected to increase the Village's future vulnerability to flood events. These trends are further described in Section 4.1 of this annex and in Section 6 of the main body of the HMP.

6.2 Severe Storm

The Village of Colonie has ranked their overall vulnerability to severe storm events as high, as indicated in Table 4-2. According to Village representatives, severe storms occur regularly in the jurisdiction and affect the entire jurisdiction, causing major damage. The Village feels they are not prepared for severe storm events.

Records of severe storm events are described in Section 4.2 of this annex. Impacts to the Village from severe storm events include fallen trees from severe winds, which can damage overhead utility lines, resulting in power outages. These events are likely to result in damages to private and public infrastructure and property. In addition, during severe winter storm events, roadway safety is a primary concern and impacts the safety of residents and operation of critical facilities. Damages to the Village's critical infrastructure or primary transportation routes would be particularly impactful to residents. According to the Village, storms can have an especially damaging impact on the parks.

Future vulnerability to severe storm events is determined by many factors, such as climate change, land use, and population changes, as well as the implementation of mitigation and adaptation strategies. Climate change is expected to change the types of severe storm events that the Village is vulnerable to, likely making the Village more vulnerable to severe thunderstorm, windstorm, and hail events and less vulnerable to heavy snow, ice storms, winter storms and winter weather. These trends are further described in Section 4.1 of this annex and in Section 6 of the main body of the HMP.

6.3 Drought

The Village of Colonie has ranked their overall vulnerability to drought events as moderate, as indicated in Table 4-2. According to Village representatives, drought events occur rarely in the jurisdiction and affect a significant portion of the jurisdiction, causing major damage. The Village feels they are moderately prepared for drought events.

The Village is particularly concerned about the impacts of drought on their water supply.

The Village of Colonie is served by a public water supply. This water supply, and certain critical facilities (e.g. pump station) could be susceptible to impacts during a drought due to low water yields, particularly if a back-up water supply has not been formally established. Additionally, any residents who rely on private wells would also be susceptible to the impacts from a drought due to low water yields.

Future vulnerability to drought events is determined by many factors, such as climate change, land use, and population changes, as well as the implementation of mitigation and adaptation strategies. Climate change is expected to increase the Village's future vulnerability to drought events. These trends are further described in Section 4.1 of this annex and in Section 6 of the main body of the HMP.

6.4 Extreme Temperatures

The Village of Colonie has ranked their overall vulnerability to extreme temperature events as high, as indicated in Table 4-2. According to Village representatives, extreme temperature events occur regularly in the jurisdiction and affect the entire jurisdiction, causing major damage. The Village feels they are not prepared for extreme temperature events.

Extreme temperature events tend to have greater impacts on vulnerable populations, including older adults (over 65 years), young children (under 5 years), individuals with health complications, and individuals who cannot afford to sufficiently heat or cool their homes. While there is no Census data available for the Village of Colonie, there is Census data available for the Town of Colonie. In the Town of Colonie, approximately 4.8% of the population is under 5 years old, and 21.7% of the population is over 65 years old. Approximately 13.2% of the residents of the Town of Colonie have a disability (excluding any institutionalized residents and active-duty military members) some of whom have health problems that make them more vulnerable to extreme heat or cold. Approximately 8% of the Town of Colonie's population is below the poverty level. Many residents within these populations are at a higher risk of being impacted by extreme temperature events.

Future vulnerability to extreme temperature events is determined by many factors, such as climate change, land use, and population changes, as well as the implementation of mitigation and adaptation strategies. Climate change is expected to increase the Village's future vulnerability to extreme heat events and decrease its vulnerability to extreme cold events. These trends are further described in Section 4.1 of this annex and in Section 6 of the main body of the HMP.

6.5 Landslide

The Village of Colonie has ranked their overall vulnerability to landslide events as moderate, as indicated in Table 4-2. According to Village representatives, landslide events occur rarely in the jurisdiction and affect one or two problem areas within the jurisdiction, causing minor damage. However, the Village feels they are not well prepared for landslide events.

Landslides can impact the structural integrity of buildings, roads, and other infrastructure in the Village. They can also impact transportation flow and the provision of supplies, can degrade the natural environment, and have the potential to cause injury and death.

Future vulnerability to landslide events is determined by many factors, such as climate change, land use, and population changes, as well as the implementation of mitigation and adaptation strategies. For example, underlying conditions that impact landslides, such as bedrock stability and heavy rain events, are influenced by climate-related trends, such as temperature increases and extreme precipitation events. These trends are further described in Section 4.1 of this annex and in Section 6 of the main body of the HMP.

6.6 Jurisdictional Priorities

Taking into account the identified natural hazards, potential impacts, assets, and vulnerabilities identified above, key vulnerabilities and priorities to be addressed in this HMP were identified for the Village.

Top concerns about hazard mitigation in the Village included:

- Extreme temperatures
- Infrastructure (water and sewer)
- flooding

The following populations were identified as being particularly vulnerable to hazards:

- The Village has a lot of elderly people in the community. The Senior Center is located in the back of Village Hall. If there are extreme temperatures, seniors would likely be the most vulnerable. The Village has staff focused on seniors and these staff proactively reach out during hazards/emergencies.

The Village has not identified any changes in priorities since the 2018 HMP Update.

6.7 Additional Impacts

Additional impacts of the hazards are summarized in the problem descriptions in the Village's past and new mitigation actions, as described in the following sections.

7 MITIGATION STRATEGY AND IMPLEMENTATION

7.1 Past, Completed, and Ongoing Initiatives

The Village did not participate in the 2018 Albany County HMP Update, and therefore had zero (0) proposed mitigation actions in 2018.

7.2 New Mitigation Actions

In addition to the actions carried over from the 2018 HMP, the Village of Colonie identified new mitigation actions for inclusion in the 2024 HMP Update, in conjunction with the project team. First, a list of actions was brainstormed based on the capabilities, hazard identification, impacts, and vulnerabilities described above. This included consideration to the ways that the Village could expand and improve the identified capabilities to achieve mitigation, as described in Section 3 of this annex. Then, a more comprehensive range of actions were evaluated as described in Section 9 of the main body of the HMP. Finally, actions that tied in most closely with the vulnerabilities identified by the Village were selected for inclusion in the HMP. These actions are included in the table below. (Note that in the table, CF = Critical Facility, EHP = Environmental and Historic Preservation.) The actions also help address climate change in the Village, since many of the hazards profiled in this HMP may be worsened by climate change. The effects of climate change on these hazards are described in Section 4.1 and Section 6 of this annex, as well as in Section 6 of the main body of the HMP.

Table 7-1. New Mitigation Actions

Project #	Project Name	Goal/Objective being Met	Hazard to be Mitigated	Description of the Problem	Description of the Solution	Related to CF?*	EHP Issues*	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority
VColonieMH1	Increase Resilience at Municipal Facilities and Key Assets	G1, G2, G3, G5, G6	Multiple Hazards (Flood, Severe Storm)	According to Albany County's Climate Resiliency Plan, several municipal facilities throughout the County are vulnerable to natural hazards such as flooding and severe storms, especially older buildings and buildings that serve vulnerable populations. Some Town of Knox facilities may fall into this category.	Partner with Albany County to assess additional opportunities to increase resilience at critical facilities and other key assets. This may include, but is not limited to, action items detailed in the Albany County Climate Resiliency Plan page 180-197, such as: 1) Assess municipal buildings for resilient retrofit opportunities, 2) Assess municipal properties for resilient site improvements, and 3) Assess climate risks and identify proactive solutions for climate resilience at a local level. Particular facilities of interest may include, but are not limited to, the ones listed in the Climate Resiliency Plan (Chapter 3 and pages 180-197), as well as the ones listed in the Critical Facilities section of the jurisdictional annex.	Yes	Potentially	3-5 years	Village of Colonie Building Department	High	This action would reduce the vulnerability of the community's critical facilities to natural hazards including floods and severe storms.	US HMGP, US BRIC, US HUD CDBG-MIT, NYS HM RLF	Medium
VColonieMH2	Establish Back-Up Drinking Water Supply	G1, G3, G5	Multiple Hazards (Severe storms, drought, extreme temperatures)	The Village currently does not have a back-up drinking water supply, which poses a public health risk in the event of a natural disaster or emergency that negatively impacts the Village's water supply.	Identify and assess strategies to establish a back-up water supply and then implement the preferred option. The Village may consider an interconnection(s) to neighboring municipalities' water supply(ies), back-up drinking wells, and large scale drinking water storage (e.g., water tower) in the event of an emergency.	Yes	Potentially	3-5 years	Village of Colonie Department of Public Works with assistance from Albany County's Department of Health	High	This action would establish a back-up water supply to ensure Village residents have access to potable water in the event of an emergency or disaster.	US BRIC, HMGP, USDA WEP, EPA CWSRF, EPA GAC, CDBG, NYSEFC WIIA, NYSEFC Drinking Water State Revolving Fund	Medium

Project #	Project Name	Goal/Objective being Met	Hazard to be Mitigated	Description of the Problem	Description of the Solution	Related to CF?*	EHP Issues*	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority
VColonieMH3	Expand Constant Contact Campaign	G1, G2, G3, G4, G5, G6	Multiple Hazards (Flooding, Severe Storms, Drought, Extreme Temperatures, Landslide)	The Village recently established Constant Contact to provide emergency notices via text to residents. Currently the Village has approximately 1,000 subscribers, but the Village would like to expand this service to ensure all residents receive real-time warnings, notifications, and updates in the event of an emergency.	Design and implement a campaign in promote Constant Contact and increase subscribers.	No	No	6 months - 1 year	Village of Colonie Outreach Center in coordination with Town of Colonie	Low	This action would allow community members to receive real time updates before, during, and after an emergency. Once implemented, this action will also increase the Village's ability to effectively prepare for, respond to, and recover from an emergency / disaster.	US HMGP, US BRIC, FEMA EMPG, CDBG PICP, NYS HM RLF	High
VColonieMH4	Flood Mitigation at Cook Park	G1, G2, G3	Multiple Hazards (Flooding, Severe Storms)	During intense rain events, Cook Park can experience extensive flooding, which can lead to the up-rooting and collapse of trees, posing a danger to park visitors and adjacent structures. Flooding in the park is driven by several factors, including the Village's high water table and the presence of a large pond, which drains to Six Mile Creek. When this pond exceeds capacity, it overtops and floods adjacent areas within the park.	Identify and assess flood mitigation strategies at Cook Park throughout the Six Mile Creek watershed. Potential flood mitigation strategies may include the integration of green infrastructure practices upstream of Cook Park, forest management within Cook Park to proactively remove any dead or damaged trees or limbs, relocating flood-prone recreational facilities immediately adjacent to the pond, and evaluating and potentially upgrading culverts that connect the pond in Cook Park to Six Mile Creek and Rensselaer Lake. This action also includes implementing the recommended strategies to mitigate flooding in Cook Park.	No	Potentially	1-3 years	Village of Colonie Parks and Recreation Department	Medium	This action would mitigate impacts of flooding and severe storms in Cook Park, which is an important recreational facility for Village residents.	US BRIC, HMGP, FMA, EPA SGS, CDBG, NYS HM RLF, DASNY SMFP	Medium

Project #	Project Name	Goal/Objective being Met	Hazard to be Mitigated	Description of the Problem	Description of the Solution	Related to CF?*	EHP Issues*	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority
VColonieMH5	Upgrade the Village's Rec Center to Provide an Emergency Shelter	G1, G2, G3, G5	Multiple Hazards (Flooding, Extreme Temperatures, Severe Storms)	The Village's Rec Center is centrally located and publicly owned. With accessibility and facility upgrades, the Rec Center could serve as an additional emergency shelter and warming/cooling station.	This action includes capital improvements at the Village's Rec Center to ensure it can serve as an emergency shelter and/or warming/cooling station during a natural disaster or emergency. Specific improvements include upgrades to the Rec Center's HVAC system, accessibility upgrades to the bathrooms, and accessibility upgrades at the building's main entrance to ensure the facility is accessible to all.	Yes	Potentially	3-5 years	Village of Colonie Building Department and Department of Public Works	High	This action would provide a centrally located emergency shelter for the community.	US CDBG-MIT, US HMGP, NYS HM RLF	Medium
VColonieMH6	Urban Forest Management Plan	G1, G2, G5, G6	Multiple Hazards (Extreme Temperatures, Severe Storms)	Property damage from falling limbs and trees is one of the main impacts the Village experiences during severe storms. The Village also ranked its vulnerability to extreme temperatures as high and receives calls from residents each summer related to extreme heat.	Develop and implement an urban forest management plan. This action would include an inventory of existing trees on public property and the establishment of an asset management system to guide and track routine maintenance activities, diseased or damaged trees, and opportunities to expand tree planting to cool the urban environment. This plan would also include a strategy for ensuring the Village has the capacity and funds to implement the urban forest management plan and may explore shared service agreements or MOUs with municipal partners to expand capacity, such as the Town of Colonie and Albany County.	No	Potentially	1-3 years	Village of Colonie Parks and Recreation Department and Department of Public Works with Assistance from Albany County	Medium	This action would enable strategic management of the urban forest to proactively remove dead/damaged trees or limbs, reducing the risk of property damage during severe storms from falling trees and tree debris. This action would also mitigate the impacts of extreme heat by increasing canopy cover and shade.	US HMGP, US BRIC, US HUD CDBG-MIT, NYS HM RLF, NYSEFC GIGP, NYSDEC Urban and Community Forest Grants, NYSDEC Trees for Tribes	Medium

*Note: CF = Critical Facility, EHP = Environmental and Historic Preservation.

7.3 Mitigation Action Prioritization

Each of the Village's proposed mitigation actions were evaluated and prioritized according to the criteria listed in Section 9 of the main body of the HMP. This includes a cost-benefit review of the proposed actions. The results are included in Table 7-2.

Table 7-2. New Mitigation Action Prioritization

Mitigation Action ID	Mitigation Action Name	Ability to Increase Resilience	Economic Feasibility	Low Environmental Impact	Ability to Implement	Total Score	Priority
VColonieMH1	Increase Resilience at Municipal Facilities and Key Assets	3	2	2	2	9	Medium
VColonieMH2	Establish Back-Up Drinking Water Supply	3	2	2	2	9	Medium
VColonieMH3	Expand Constant Contact Campaign	2	3	3	3	11	High
VColonieMH4	Flood Mitigation at Cook Park	2	2	2	2	8	Medium
VColonieMH5	Upgrade the Village's Rec Center to Provide an Emergency Shelter	3	2	2	2	9	Medium
VColonieMH6	Urban Forest Management Plan	3	2	2	1	8	Medium

Note: Feasibility/effectiveness is rated as follows: 1 = Poor, 2 = Moderate, 3 = Good. Priority is determined as follows based on total score: 4-6 = Low, 7-9 = Medium, 10-12 = High.

7.4 Mitigation Action Implementation and Administration

The Village's new mitigation actions will be implemented and administered via the lead agencies listed in Table 7-1 of this annex, using the timeframes, prioritization, and funding sources in Sections 7.2 and 7.3 as a guide. Further details about implementation of mitigation actions for all jurisdictions in Albany County, as well as a description of funding sources, are described in Sections 9 and 10 of the main body of the HMP.

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8 ADDITIONAL PUBLIC INVOLVEMENT

Public input was solicited to guide the development of the HMP through two public information meetings and a community survey. A summary of the findings of these outreach activities can be found in Section 3 of the main body of the HMP. The Village of Colonie may continue to seek public participation in hazard mitigation planning after HMP approval by including discussion of the HMP as an agenda item at public Village Board meetings and by offering opportunities for members of the public to participate in the implementation of relevant mitigation actions.

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