

9.8 VILLAGE OF FREEVILLE

This section presents the jurisdictional annex for the Village of Freeville. It includes resources and information to assist public and private sectors to reduce losses from future hazard events. This annex is not guidance of what to do when a disaster occurs. Rather, this annex concentrates on actions that can be implemented prior to a disaster to reduce or eliminate damage to property and people. This annex includes a general overview of the Village of Freeville and who in the Village participated in the planning process; an assessment of the Village of Freeville’s risk and vulnerability; the different capabilities utilized in the Village; and an action plan that will be implemented to achieve a more resilient community.

9.8.1 Hazard Mitigation Planning Team

The following individuals have been identified as the Village of Freeville’s hazard mitigation plan primary and alternate points of contact.

Table 9.8-1. Hazard Mitigation Planning Team

| Primary Point of Contact | Alternate Point of Contact |
|--|--|
| Name/Title: Jason Cuykendall, Deputy Mayor Address: 5 Factory St., P.O. Box 288, Freeville, NY Phone Number: 607-838-3645 Email: jason@redbarns.net | Name/Title: David Fogel, Mayor Address: 5 Factory St., P.O. Box 288, Freeville, NY Phone Number: 607-844-6110 Email: dmfl10421@gmail.com |
| NFIP Floodplain Administrator | |
| Name/Title: Rick Fritz, Code Enforcement Official Address: 5 Factory St., P.O. Box 288, Freeville, NY Phone Number: 607-591-9898 -Email: deputyclerk@freevilleny.org | |

9.8.2 Municipal Profile

The Village of Freeville is located about 10 miles from each Ithaca and Cortland. Located within the Town of Dryden, Freeville encompasses one square mile, surrounded by open space to the east, wetlands to the south and west, and farmland to the north. Less than half of the Village is developed. Freeville is the only incorporated municipality in the nation with this name.

Two settlers bought land on either side of Fall Creek in the early 19th century, and the land between them would later become the village of Freeville. Due to the Fall Creek Valley, Freeville became the location for a railroad junction and by the mid-1870s, was home to 200 people, a church, two hotels, and several shops. Freeville was incorporated as a village in 1887 and thrived through the end of the century. A major fire in 1931 destroyed many homes and businesses in Freeville; and a flood in July 1935 ravaged much of the region. With



increased mobility and access to nearby towns, there has been a gradual decline in commercial activity. There is no longer a grocery store, nor gas station in Freeville.

The Village of Freeville is governed by a Mayor and a four-person Board of Trustees. The Mayor and Trustees are elected officials. The Mayor appoints members of the Planning Board, and Zoning Board of Appeals to be approved by the Trustees.

According to the 2014-2018 American Community Survey, the Village of Freeville population is 501.

9.8.3 Growth/Development Trends

Understanding how past, current, and projected development patterns have or are likely to increase or decrease risk in hazard areas is a key component to understanding a jurisdiction’s overall risk to its hazards of concern. Table 9.8-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. at the end of this annex illustrates the geographically delineated hazard areas and the location of potential new development, where available.

Table 9.8-2. Recent and Expected Future Development

| Type of Development | 2014 | | 2015 | | 2016 | | 2017 | | 2018 | |
|---|---------------------|-------------------------|-------|---|-------|-----------------------|-------|-------------------------------------|-------|-------------|
| Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain) | | | | | | | | | | |
| | Total | Within SFHA | Total | Within SFHA | Total | Within SFHA | Total | Within SFHA | Total | Within SFHA |
| Single Family | - | N/A | - | N/A | 1 | N/A | 00 | N/A | 0 | N/A |
| Multi-Family | - | N/A | - | N/A | 0 | N/A | 0 | N/A | 0 | N/A |
| Other (commercial, mixed-use, etc.) | - | N/A | - | N/A | 0 | N/A | 0 | N/A | 0 | N/A |
| Total | 0 | | 0 | | 1 | | 0 | | 0 | |
| Property or Development Name | Type of Development | # of Units / Structures | | Location (address and/or block and lot) | | Known Hazard Zone(s)* | | Description / Status of Development | | |
| Recent Major Development and Infrastructure from 2014 to Present | | | | | | | | | | |
| N/A | | | | | | | | | | |
| Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years | | | | | | | | | | |
| Unknown | | | | | | | | | | |

SFHA Special Flood Hazard Area (1% flood event)

* Only location-specific hazard zones or vulnerabilities identified.



9.8.4 Capability Assessment

The Village of Freeville performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Section 5 (Capability Assessment) describes the components included in the capability assessment and their significance for hazard mitigation planning. This section summarizes the following findings of the assessment:

- An assessment of planning, legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of administrative and technical capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Classification under various community mitigation programs.
- The community’s adaptive capacity for the impacts of climate change.
- Information on National Flood Insurance Program (NFIP) compliance.
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For a community to succeed in reducing long-term risk, hazard mitigation must be integrated into the day-to-day local government operations. As part of this planning effort, planning/policy documents were reviewed, and each jurisdiction was surveyed to obtain a better understanding of their progress in plan integration. Areas with current mitigation integration are summarized in Capability Assessment (Section 9.8.4). The Village of Freeville identified specific integration activities that will be incorporated into municipal procedures are included in the updated mitigation strategy. **This is shown in bold text in the comments box where appropriate.** Appendix I provides the results of the planning/policy document review and the answers to integration survey questions.

9.8.4.1 Planning, Legal, and Regulatory Capability

The table below summarizes the regulatory tools that are available to the Village of Freeville and where hazard mitigation has been integrated.

Table 9.8-3. Planning, Legal, and Regulatory Capability

| | Does your municipality have this? (Yes/No) | Code Citation and Date (code chapter, name, date, link) | Authority (local, Town, state, federal) | Department / Agency Responsible | State Mandated |
|--|--|---|---|---------------------------------|----------------|
| Codes, Ordinances, & Requirements | | | | | |
| Building Code | Yes | The Uniform Code (19 NYCRR Parts 1219 to 1229) | Local and State | Local Code Department | Yes |



| | Does your municipality have this? (Yes/No) | Code Citation and Date (code chapter, name, date, link) | Authority (local, Town, state, federal) | Department / Agency Responsible | State Mandated |
|---|--|--|---|--|----------------|
| <p>Comments: NYS Uniform and Energy Code 2020; Regulated at local and state levels. The Uniform Code (19 NYCRR Parts 1219 to 1229) now includes the 2015 editions of the code books published by the International Code Council (the "2015 I-Codes"), as amended by the publication entitled the 2017 Uniform Code Supplement (publication date: July 2017).. Article 18 of the Executive Law (§§ 370 through 383) establishes the State Fire Prevention and Building Code Council, directs the Code Council to promulgate and maintain the Uniform Code, and charges each city, town, and village in the State (with the exception of the City of New York) with the duty of administering and enforcing the Uniform Code within its municipal boundaries.</p> | | | | | |
| Zoning Code | Yes | Not Available Online | Local | Local Zoning Board of Adjustment | No |
| <p>Comment: Article IX, Section 2, of the State Constitution and by the various state enabling statutes. In New York, the zoning enabling acts continue to require that zoning be undertaken "in accord with a well-considered plan"11 or "in accordance with a comprehensive plan."12 Unless the town, city or village has adopted a comprehensive plan document using the more recently-enacted statutes (described later herein), local officials must refer to the extensive body of case law to determine how zoning can meet the more general "comprehensive plan" requirement. **May be impacted by State wetland regulations which protect wetlands greater than 12.4 acres and established buffer zones. Regulated at local level. *During the next update of the municipal zoning code, the Village will review the HMP and determine how they can incorporate the HMP into the zoning code. By doing so, it will help promote development and redevelopment patterns that are at less risk from known hazards.</p> | | | | | |
| Subdivision Regulations | Yes | Article VI of Land Use Plan | Local | Local Planning Board | No |
| <p>Comment: Subdivision is defined in the State enabling Statutes as: the division of any parcel of land into a number of lots, blocks, or sites as specified i a local ordinance, law or regulation, with or without streets or highways, for the purpose of sale, transfer of ownership, or development. There is not a requirement by NYS for subdivisions. Each municipality is permitted to further define subdivision for its own purposes in connection with its subdivision review procedure. The enabling statutes provide that a plat showing a division of land which is subject to a municipality's subdivision regulations, may not also be subject to review under its site plan review authority. (general city law s. 32 & 33, Town Law s. 276 & 277, Village Law s. 7-728 & 7-730). *When the Village updates the subdivision regulations, they will review the HMP and consider different ways to integrate the HMP into the regulation. By doing so, it helps the Village encourage new developers to design areas that avoids or minimizes hazard.</p> | | | | | |
| Stormwater Management Regulations | Yes | Title 6, Ch. X,17-7,8,70 | Local | | Yes |
| <p>Comment: Codes Rules and Regulations of the State of New York, Title 6. Department of Environmental Conservation, Chapter X. Division of Water Resources, Subchapter A. General Article 3. State Pollutant Discharge Elimination System, Part 750. State Pollutant Discharge Elimination System(SPDES) Permits. New York Environmental Conservation Law, Article 17, Titles 7, 8 and Article 70. New development and redevelopment projects that result in a land disturbance of one acre or greater, including projects less than one acre if they are part of a larger common plan of development or sale or if controlling such activities in a particular watershed is require a permit by the Department</p> | | | | | |
| Post-Disaster Recovery Plan or Regulation | No | NA | Local | | No |
| <p>Comment:</p> | | | | | |
| Real Estate Disclosure | Yes | Property Condition Disclosure Act, NY Code - Article 14 §460-467 | State | NYS Department of State, Real Estate Agent | Yes |
| <p>Comment: In addition to facing potential liability for failing to disclose under the exceptions to "caveat emptor," a home seller must make certain disclosures under the law or pay a credit of \$500 to the buyer at closing. While the PCDA requires a seller to complete a standardized disclosure statement and deliver it to the buyer before the buyer signs the final purchase contract, in practice, most home sellers in New York opt not to complete the statement and instead pay the credit.</p> | | | | | |



| | Does your municipality have this? (Yes/No) | Code Citation and Date (code chapter, name, date, link) | Authority (local, Town, state, federal) | Department / Agency Responsible | State Mandated |
|--|--|--|---|---------------------------------|---|
| *The Village will review the HMP and identify areas of integration that they can incorporate into their real estate disclosure procedures. This can include developing disclosure requirements to have natural hazard related information and include all natural hazards that can impact the Village. | | | | | |
| Growth Management Regulation | No | NA | Local | Local Planning Board | No |
| Comment: In New York State, virtually all land use regulation, which is the primarily tool for Smart Growth, takes place at the municipal level (i.e., in a city, village or town government). Land use planning is also primarily a municipal function. While State law provides for certain planning functions at the county or regional level, these mechanisms are largely advisory, whereas municipal planning is directly related to land use regulation. | | | | | |
| Site Plan Review | Yes | General City Law s. 27-a, Town Law s. 247a, Village Law s. 7-725a | Local | Local Planning Board | No |
| Comment: The authority to require site plan review is derived from the State enabling Statutes (General City Law s. 27-a, Town Law s. 247a, Village Law s. 7-725a)The local legislative body has the power to delegate site plan review to the planning board, zoning board, etc. *When the Village updates the site plan review requirements, they will review the HMP and identify ways, if any, to integrate the HMP into the requirements. | | | | | |
| Environmental Protection | Yes | Title 6 NYCRR Part 617 | State | ? | Yes |
| Comment: New State Environmental Quality Review Act (SEQR) Title 6 NYCRR Part 617 Regulations are in effect as of January 1st, 2019 | | | | | |
| Flood Damage Prevention Law | Yes | Federal :Participation in the NFIP State: Community Risk and Resiliency Act (CRRRA) | Local, State, Federal | Code & Zoning Official | Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential) |
| Comment: A community must adopt a Flood Damage Prevention Ordinance to participate in the National Flood Insurance Program. *The Village's law meets the minimum requirements set by NYS. In the event those requirements are revised, the Village will revise their law to include any revisions. | | | | | |
| Municipal Separate Storm Sewer System (MS4) Regulation | No | EPA Phase II Stormwater Rule | Federal | NA | Yes |
| Comment: This requires urbanized areas (local governments) to develop a stormwater management program that will reduce the amount of pollutants carried by stormwater during storm events to waterbodies to the "maximum extent practicable". The goal of the program is to improve water quality and recreational use of waterways. A Municipal Separate Storm Sewer Systems Permit, GP-0-15-003 is required. | | | | | |
| Emergency Management | Yes | NYS Executive Law, Article 2B. | Local | Local OEM | Yes |
| Comment: The development of the New York State Comprehensive Emergency Management Plan (CEMP) is required under NYS Executive Law, Article 2B. | | | | | |
| Climate Adaptation | No | NYS Executive Law, Article 75 | Local | NA | Yes |
| Comment: The environmental conservation law was amended by adding ARTICLE 75 - CLIMATE CHANGE under Assembly Bill A. 8429 and Senate Bill S. 6599, dated June 18, 2019. | | | | | |
| Disaster Recovery Ordinance | No | NA | Local | NA | No |
| Comment: | | | | | |



| | Does your municipality have this? (Yes/No) | Code Citation and Date (code chapter, name, date, link) | Authority (local, Town, state, federal) | Department / Agency Responsible | State Mandated |
|---|--|---|---|---------------------------------|----------------|
| Disaster Reconstruction Ordinance | No | NA | Local | NA | No |
| Comment: | | | | | |
| Other Applicable Codes, Ordinances, & Requirements | None | - | - | - | - |
| Comment: | | | | | |
| Planning Documents | | | | | |
| Comprehensive Plan | Yes | General City Law section 28a(3)(a); Town Law section 272-a(2)(a); Village Law section 7-722(2)(a) | Local | Village Planning Board | No |
| <p>Comment: Optional under NYS Law, municipality may adopt a comprehensive plan or proceed through a planning process which has evolved based on case law. (Per State Legislature General City Law section 28a, Town Law s. 272a, Village Law s. 7-722) **May be impacted by State wetland regulations which protect wetlands greater than 12.4 acres and established buffer zones. Regulated at the local level 2013 - http://www.freevilleny.org/wp-content/uploads/sites/2/2017/01/COMPREHENSIVE-PLAN-13.pdf</p> <p>*When the Village updates their comprehensive plan, they will review the HMP and identify any opportunities to integrate the HMP into the comprehensive plan. This will help promote consistency between the two plans and encourage multi-objective management and planning in the community.</p> | | | | | |
| Capital Improvement Plan | No | General Municipal Law Section 99-g. | Local | NA | No |
| Comment: A local government can decide to adopt its capital plan pursuant to General Municipal Law Section 99-g. | | | | | |
| Disaster Debris Management Plan | No | - | Local | NA | No |
| Comment: Based on past experience with disaster management, it is apparent that local municipalities that have an Emergency Debris Management Plan in place are able to manage their emergency response in a more comprehensive and coordinated manner and are able to address recovery and clean up faster and more efficiently than those without plans. With that in mind, the Department developed an Emergency Management Plan Tool Kit. The NYSDEC (Department) strongly urges all municipal officials to conduct pre-disaster planning and prepare emergency debris management plans. The Department recommends that these plans should be reviewed and updated annually. | | | | | |
| Floodplain or Watershed Plan | No | - | Local | NA | No |
| Comment: The State Pollutant Discharge Elimination System (SPDES) permit program is a primary way the DOW implements its watershed protection and restoration activities. | | | | | |
| Stormwater Plan | No | - | Local | NA | No |
| Comment: Local Authority - Could be an element of the Comprehensive Plan. There is a required planning process that must be followed when addressing stormwater management in regulated new development and redevelopment projects. | | | | | |
| Open Space Plan | No | NYS Constitution - Article 9; Statute of Local Governments. Section 10 (7) | Local | NA | Yes |
| Comment: Planning boards prepare or oversee the preparation of local comprehensive plans, which should include an open space element. The primary purpose of a local open space plan is to cause the important open lands in the community to be conserved for open space uses. | | | | | |
| Urban Water Management Plan | No | - | Local | NA | No |



| | Does your municipality have this? (Yes/No) | Code Citation and Date (code chapter, name, date, link) | Authority (local, Town, state, federal) | Department / Agency Responsible | State Mandated |
|---|--|--|---|---|----------------|
| Comment: | | | | | |
| Habitat Conservation Plan | No | - | Local | NA | No |
| Comment: Laws related to habit protection and biodiversity control the use and application of certain pesticides, demolition projects and clearing of vegetated areas. Identifying certain critical habitat areas could be included in the Comprehensive Plan. Critical Habitat is a part of certain State and Federal Permitting. The State had a Wildlife Action Plan requires to maintain eligibility for the State Wildlife Grant Program. | | | | | |
| Economic Development Plan | No | - | Local | NA | No |
| Comment: An Economic Development Plan may be prepared by a local government and be included or separate from the Comprehensive plan.**May be impacted by State wetland regulations which protect wetlands greater than 12.4 acres and established buffer zones. | | | | | |
| Shoreline Management Plan | No | Article 34, Environmental Conservation Law, Coastal Erosion Hazard Areas 6 NYCRR Part 505, Coastal Erosion Management Regulations | Local | - | Yes |
| Comment: Article 34, Environmental Conservation Law, Coastal Erosion Hazard Areas 6 NYCRR Part 505, Coastal Erosion Management Regulations | | | | | |
| Community Wildfire Protection Plan | No | - | Local | - | No |
| Comment: Under the federal Farm Bill, every 10 years each state must submit a State Forest Action Plan to the U.S. Forest Service. The Plan must be approved by the State Forester, who in New York is the director of DEC's Division of Lands and Forests. The next update of the Plan must be submitted to the Forest Service by June 2020. | | | | | |
| Forest Management Plan | No | - | Local | - | No |
| Comment: | | | | | |
| Transportation Plan | No | - | Local | - | No |
| Comment: | | | | | |
| Agriculture Plan | No | NYCRR Part 390 Agricultural and Farmland Protection - | Local | ? | Yes |
| Comment: Municipalities may develop agricultural and farmland protection plans, in cooperation with cooperative extension and other organizations, including local farmers. | | | | | |
| Other (tourism, business dev, etc.) | None | - | - | - | - |
| Comment: | | | | | |
| Response/Recovery Planning | | | | | |
| Comprehensive Emergency Management Plan | Yes | NYS Executive Law, Article 2B | Local | Local OEM and Town of Dryden Code Enforcement | Yes |
| Comment: The development of the New York State Comprehensive Emergency Management Plan (CEMP) is required under NYS Executive Law, Article 2B. The plan is developed and maintained by the New York State Office of Emergency Management and agencies that comprise the NYS Disaster Preparedness Commission (DPC). | | | | | |



| | Does your municipality have this? (Yes/No) | Code Citation and Date (code chapter, name, date, link) | Authority (local, Town, state, federal) | Department / Agency Responsible | State Mandated |
|---|--|---|---|---------------------------------|----------------|
| Plan is in coordination with the Town of Dryden's CEMP. *When the Village updates their CEMP, they will review the HMP and identify any areas that can be integrated. This can include an analysis of the potential hazards to the Village and update goals and objectives to align with the HMP, as necessary. | | | | | |
| Threat & Hazard Identification & Risk Assessment (THIRA) | No | - | Local | Local OEM | Yes |
| Comment: HIRA is an annual requirement that all states must complete to remain eligible to receive federal homeland security grant funding. It also involves a hazard and capability assessment but DHSES has several methodological concerns with the THIRA process and has developed CEPA to serve as the State's system to capture and analyze hazard/capability information. However, CEPA has been engineered to support the completion of the THIRA. | | | | | |
| Post-Disaster Recovery Plan | No | - | Local | - | No |
| Comment: | | | | | |
| Continuity of Operations Plan | No | - | Local | - | No |
| Comment: According to the FEMA, "State and local governments should consider developing or updating contingency plans for the continuity of operations (COOP) of vital government functions. Jurisdictions must be prepared to continue their minimum essential functions throughout the spectrum of possible threats from natural disasters through acts of terrorism. COOP planning facilitates the performance of State and local government and services during an emergency that may disrupt normal operations. | | | | | |
| Public Health Plan | No | - | Local | - | - |
| Comment: | | | | | |
| Other: Emergency Response Plan | Yes | - | Local | | No |
| Comment: Nothing is mandated by law in NYS, however, article 2B of the Executive Law provides for authority to draft emergency plans by various levels of government in NYS. Plan in coordination with the Town of Dryden's effort. | | | | | |
| Other: Special Purpose Ordinances (such as critical or sensitive areas) | | | | | |
| Comment: | | | | | |

Table 9.8-4. Development and Permitting Capability

| Indicate if your jurisdiction implements the following | Response Yes/No; Provide further detail |
|---|---|
| Development Permits. If yes, what department? | Clerk's Office |
| Permits are tracked by hazard area. For example, floodplain development permits. | No |
| Buildable land inventory If yes, please describe If no, please quantitatively describe the level of buildout in the jurisdiction. | No |

9.8.4.2 Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Village of Freeville.



Table 9.8-5. Administrative and Technical Capabilities

| Resources | Available? (Yes or No) | Department/ Agency/Position |
|--|---------------------------|--------------------------------|
| Administrative Capability | | |
| Planning Board | Yes | - |
| Mitigation Planning Committee | No | - |
| Environmental Board/Commission | No | Planning Board |
| Open Space Board/Committee | No | Planning Board |
| Economic Development Commission/Committee | No | - |
| Warning Systems / Services (reverse 911, outdoor warning signals) | Yes | Swift 911 |
| Maintenance programs to reduce risk | Yes | DPW |
| Mutual aid agreements | No | Hand shake agreements in place |
| Technical/Staffing Capability | | |
| Planners or engineers with knowledge of land development and land management practices | No | - |
| Engineers or professionals trained in building or infrastructure construction practices | No | - |
| Planners or engineers with an understanding of natural hazards | No | - |
| Staff with expertise or training in benefit/cost analysis | No | - |
| Professionals trained in conducting damage assessments | No | - |
| Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications | No | - |
| Scientist familiar with natural hazards | No | - |
| NFIP Floodplain Administrator (FPA) | No | - |
| Surveyor(s) | No | - |
| Emergency Manager | No | - |
| Grant writer(s) | No | - |
| Resilience Officer | No | - |
| Other | | |

9.8.4.3 Fiscal Capability

The table below summarizes financial resources available to the Village of Freeville.

Table 9.8-6. Fiscal Capabilities

| Financial Resources | Accessible or Eligible to Use (Yes/No) |
|---|--|
| Community development Block Grants (CDBG, CDBG-DR) | No |
| Capital improvements project funding | No |
| Authority to levy taxes for specific purposes | Yes |
| User fees for water, sewer, gas or electric service | Yes – Village sewer fee; all Village on own well |
| Impact fees for homebuyers or developers of new development/homes | No |
| Stormwater utility fee | No |
| Incur debt through general obligation bonds | Yes |
| Incur debt through special tax bonds | No |



| Financial Resources | Accessible or Eligible to Use (Yes/No) |
|--|--|
| Incur debt through private activity bonds | No |
| Withhold public expenditures in hazard-prone areas | No |
| Other federal or state Funding Programs | No |
| Open Space Acquisition funding programs | No – however Village has acquired various streamside parcels for creating adequate buffers to Fall Creek |
| Other | |

9.8.4.4 Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Village of Freeville.

Table 9.8-7. Education and Outreach Capabilities

| Indicate if your jurisdiction has the following resources | Yes/No; Please describe |
|---|--|
| Public information officer or communications office? | No |
| Personnel skilled or trained in website development? | No |
| Hazard mitigation information available on your website; if yes, describe | No |
| Social media for hazard mitigation education and outreach; if yes, briefly describe. | No |
| Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe. | Yes, Planning Board addresses some of these issues |
| Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe. | No |
| Warning systems for hazard events; if yes, briefly describe. | No significant coordinated systems |
| Natural disaster/safety programs in place for schools; if yes, briefly describe. | No |
| Other | |

9.8.4.5 Community Classifications

The table below summarizes classifications for community programs available to the Village of Freeville.

Table 9.8-8. Community Classifications

| Program | Participating? (Yes/No) | Classification (if applicable) | Date Classified (if applicable) |
|---|-------------------------|--------------------------------|---------------------------------|
| Community Rating System (CRS) | No | NA | NA |
| Building Code Effectiveness Grading Schedule (BCEGS) | No | NA | NA |
| Public Protection (ISO Fire Protection Classes 1 to 10) | Yes | Freeville Fire Dept | |
| NYSDEC Climate Smart Community | No | | |
| Storm Ready Certification | No | | |
| Firewise Communities classification | No | | |



| Program | Participating? (Yes/No) | Classification (if applicable) | Date Classified (if applicable) |
|---------|----------------------------|-----------------------------------|------------------------------------|
| Other | | | |

Note:

- N/A Not applicable
- NP Not participating
- Unavailable

9.8.4.6 Adaptive Capacity

Adaptive capacity is defined as “the ability of systems, institutions, humans and other organisms to adjust to potential damage, to take advantage of opportunities, or respond to consequences” (IPCC 2014). In other words, it describes a jurisdiction’s current ability to adjust to, protect from, or withstand a hazard event. This term is often discussed in reference to climate change; however, adaptive capacity also includes an understanding of local capacity for adapting to current and future risks and changing conditions. The table below summarizes the adaptive capacity for each hazard and the jurisdiction’s rating.

Table 9.8-9. Adaptive Capacity

| Hazard | Adaptive Capacity (Capabilities) - High/Medium/Low* |
|---------------------|---|
| Disease Outbreak | Low |
| Drought | Medium |
| Extreme Temperature | Medium |
| Flood | Medium |
| Harmful Algal Bloom | Low |
| Invasive Species | Low |
| Severe Storm | Medium |
| Severe Winter Storm | High |

- *High Capacity exists and is in use
- Medium Capacity may exist; but is not used or could use some improvement
- Low Capacity does not exist or could use substantial improvement
- Unsure Not enough information is known to assign a rating

9.8.4.7 National Flood Insurance Program

This section provides specific information on the management and regulation of the regulatory floodplain.

NFIP Floodplain Administrator (FPA)

Rick Fritz, Village Code Enforcement Officer

Table 9.8-10. Floodplain Administrator Questionnaire

| NFIP Topic | Comments |
|---|---|
| Flood Vulnerability Summary | |
| Describe areas prone to flooding in your jurisdiction. <ul style="list-style-type: none"> • Do you maintain a list of properties that have been damaged by flooding? | Areas along Fall and Virgil Creek, no list of damaged properties. |



| NFIP Topic | Comments |
|--|---|
| <p>Do you maintain a list of property owners interested in flood mitigation?</p> <ul style="list-style-type: none"> How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)? | No |
| <p>Are any RiskMAP projects currently underway in your jurisdiction?</p> <ul style="list-style-type: none"> If so, state what projects are underway. | Yes – active, anticipated for conclusion 2022. |
| <p>How do you make Substantial Damage determinations?</p> <ul style="list-style-type: none"> How many were declared for recent flood events in your jurisdiction? | NA |
| <p>How many properties have been mitigated (elevation or acquisition) in your jurisdiction?</p> <ul style="list-style-type: none"> If there are mitigation properties, how were the projects funded? | 0 |
| <p>Do your flood hazard maps adequately address the flood risk within your jurisdiction?</p> <ul style="list-style-type: none"> If not, state why. | Yes |
| Resources | |
| What local department is responsible for floodplain management? | Code Enforcement |
| Are any certified floodplain managers on staff in your jurisdiction? | No |
| Do you have access to resources to determine possible future flooding conditions from climate change? | Yes |
| Does your floodplain management staff need any assistance or training to support its floodplain management program? | No |
| <p>• If so, what type of assistance/training is needed?</p> <p>Provide an explanation of NFIP administration services you provide (e.g. permit review, GIS, education/outreach, inspections, engineering capability)</p> | Permit reviews, inspections, engineering capability |
| How do you determine if proposed development on an existing structure would qualify as a substantial improvement? | NA |
| What are the barriers to running an effective NFIP program in the community, if any? | None |
| Compliance History | |
| Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? | No |
| <p>• If so, state the violations.</p> <p>When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)?</p> | 02/26/2018 |
| Regulatory | |



| NFIP Topic | Comments |
|---|-------------|
| What is the local law number or municipal code of your flood damage prevention ordinance? <ul style="list-style-type: none"> What is the date that your flood damage prevention ordinance was last amended? | Local Law 1 |
| Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> If exceeds, in what ways? | Meets |
| Are there other local ordinances, plans or programs (e.g. site plan review) that support floodplain management and meeting the NFIP requirements? For instance, does the planning board or zoning board consider efforts to reduce flood risk when reviewing variances such as height restrictions? | No |
| Community Rating System (CRS) | |
| Does your jurisdiction participate in CRS? <ul style="list-style-type: none"> If yes, is your jurisdiction interested in improving its CRS Classification? If no, is your jurisdiction interested in joining the CRS program? | No |

9.8.4.8 National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Village of Freeville.

Table 9.8-11. NFIP Summary

| Municipality | # Policies | # Claims (Losses) | Total Loss Payments | # RL Properties | # SRL Properties |
|----------------------|------------|-------------------|---------------------|-----------------|------------------|
| Village of Freeville | 7 | 4 | \$17,760 | 1 | - |

Source: FEMA 2020

Notes: Policies, claims, repetitive loss, and severe repetitive loss statistics provided by FEMA Region 2, and current as of July 7, 2020. The total number of repetitive loss properties does not include severe repetitive loss properties. SRL property information was not included in the available data set.

RL=Repetitive Loss; SRL=Severe Repetitive Loss

9.8.4.9 Additional Areas of Existing Integration

Mitigation plan work in the Village will be integrated with several planned Public Works projects. Aspects of the current Village of Freeville Comprehensive Plan integrates mitigation planning by calling for its zoning to regulate development in floodplains through its zoning regulation. It further recommends a buffer zone between any commercial or residential development and the banks of Fall Creek or its tributaries, and this concept should be considered during the evaluation of site-plan proposals for such development. As the comprehensive plan is updated, key aspects of this hazard mitigation plan update will be utilized in the development of its policies and actions.



9.8.4.10 Evacuation, Sheltering, Temporary Housing, and Permanent Housing

Evacuation routes, sheltering measures, temporary housing, and permanent housing must all be in place and available for public awareness to protect residents, mitigate risk, and relocate residents, if necessary, to maintain post-disaster social and economic stability.

Evacuation Routes

The State highways that cut through the Village (366 and 38) are relied on for evacuation routes. Evacuation routes are specific to hazard event and routes will vary according to the location of the event. The Village will identify evacuation routes according to procedures outlined in the ESF16 annex of the Tompkins County 2021 CEMP.

Sheltering

Village Fire Department designated as a shelter. In the event that sheltering is needed shelters will be determined at the time of an emergency, in accordance with the County CEMP.

Table 9.8-12. Shelter Locations in the Municipality

| Shelter Name | Address | Capacity | Accommodates Pets? | ADA Compliant? | Backup Power? | Types of Medical Services Provided | Other Services Provided |
|-------------------------|---------|----------|--------------------|----------------|---------------|------------------------------------|-------------------------|
| Village Fire Department | - | - | - | - | - | - | - |

Temporary Housing

Based on the size of the Village, there is very limited land available for temporary housing. Therefore, the Village of Freeville has not identified sites for the placement of temporary housing for residents displaced by a disaster or potential sites suitable for relocating structures out of the floodplain and/or building new homes once properties in the floodplain are acquired. In the event temporary housing is needed, the [] will work with the County to find suitable locations using the locations identified in Section 4 (County Profile) Table 4-9 as a starting point.

Table 9.8-13. Temporary Housing Locations in the Municipality

| Site Name | Site Address | Infrastructure / Utilities Available (water, electric, septic, etc.) | Capacity (number of sites) | Type |
|---|--------------|--|----------------------------|------|
| There are no temporary housing locations identified. Due to its size the Village would have to rely on spaces identified in the surrounding Town of Dryden. | | | | |



Permanent Housing

Based on the size of the Village, there is very limited land available for permanent housing. While the Village did not identify potential locations for permanent housing, as part of the planning process, a countywide buildable land analysis was conducted and presented in Section 4 (County Profile). The Village can utilize this analysis to identify potential locations.

Table 9.8-14. Permanent Housing Locations in the Municipality

| Site Name | Site Address | Infrastructure / Utilities Available (water, electric, septic, etc.) | Capacity (number of sites) | Type | Actions Required to Ensure Conformance with the NYS Uniform Fire Prevention and Building Code |
|---|--------------|--|----------------------------|------|---|
| There are no locations for permanent housing in the Village. Due to its size and its extent of natural resources just a few vacant parcels in the Village are available for safe, permanent redevelopment. The Village would otherwise have to rely on redevelopment in the surrounding Town of Dryden. | | | | | |

9.8.5 Hazard Event History Specific to the Village of Freeville

Village of Freeville has a history of natural hazard events as detailed in Volume I, Section 5 (Risk Assessment) of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the Village. The Village of Freeville’s history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Village of Freeville. Table 9.8-15 provides details regarding municipal-specific loss and damages the Village experienced during hazard events. Information provided in the table below is based on reference material or local sources. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.

Table 9.8-15. Hazard Event History

| Dates of Event | Event Type (Disaster Declaration if applicable) | County Designated? | Summary of Event | Municipal Summary of Damages and Losses |
|-----------------|---|--------------------|--|---|
| May 13-22, 2014 | Severe Storms and Flooding (DR-4180) | Yes | On May 16, heavy rainfall resulted in flash flooding and washed out roads. | Although the Village was impacted, the Village of Freeville did not report any damages. |



| Dates of Event | Event Type (Disaster Declaration if applicable) | County Designated? | Summary of Event | Municipal Summary of Damages and Losses |
|------------------------------|---|--------------------|--|---|
| August 3, 2014 | Heavy Rain and Flash Flooding | | Showers and thunderstorms in the area produced torrential downpours. In the County, several roadways were inundated causing approximately \$100,000 in property damage. | Although the Village was impacted, the Village of Freeville did not report any damages. |
| June 14-15, 2015 | Heavy Rain and Flash Flood | | A tropical-like airmass was in place allowing for a stripe of 2-4 inches of very heavy rain to fall in a narrow band extending from near Watkins Glen to areas north of Binghamton. Severe flash flooding was encountered with numerous roads and culverts destroyed by raging water. In some areas, homes, schools and other businesses were flooded. In Tompkins County, flooding caused the washout of numerous bridges in the area. The County had approximately \$1.5 million in damages from this event. | Although the Village was impacted, the Village of Freeville did not report any damages. |
| March 14-15, 2017 | Severe Winter Storm and Snowstorm (DR-4322) | Yes | Snowfall ranged between 12 and 24 inches in Tompkins County with the highest amounts in the far southeast part of the county. | Although the Village was impacted, the Village of Freeville did not report any damages. |
| July 24, 2017 | Heavy Rain and Flash Flooding | | Widespread thunderstorms produced three to inches of rain. This led to streams and creeks overflowing their banks and flash flooding in many areas. The County had approximately \$75,000 in property damage. | Although the Village was impacted, the Village of Freeville did not report any damages. |
| October 31- November 1, 2019 | Severe Storms, Straight-Line Winds and Flooding (DR-4472) | Yes | | Although the Village was impacted, the Village of Freeville did not report any damages. |

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- N/A Not applicable



9.8.6 Hazard Ranking and Jurisdiction-Specific Vulnerabilities

The hazard profiles in Section 5.0 (Risk Assessment) of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the Village of Freeville’s risk assessment results and data used to determine the hazard ranking.

9.8.6.1 Critical Facilities

New York Department of Environmental Conservation (DEC) Statute 6 CRR-NY 502.4 sets forth floodplain management criteria for State projects located in flood hazard areas. The law states that no such projects related to critical facilities shall be undertaken in a Special Flood Hazard Area (SFHA) unless constructed according to specific mitigation specifications, including being raised 2’ above the Base Flood Elevation (BFE). This statute is outlined at <http://tinyurl.com/6-CRR-NY-502-4>. While all vulnerabilities should be assessed and documented, the State places a high priority on exposure to flooding. Critical facilities located in an SFHA, or having ever sustained previous flooding, must be protected to the 0.2-percent or 500-year flood event, or worst damage scenario. For those that do not meet this criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent and 0.2-percent floodplain and presents Hazards United States (HAZUS) – Multi-Hazards (MH) estimates of the damage and loss of use to critical facilities as a result of a 1-percent annual chance flood event.

Table 9.8-16. Potential Flood Losses to Critical Facilities

| Name | Type | Exposure | | Addressed by Proposed Action |
|---|------|----------|------------|------------------------------|
| | | 1% Event | 0.2% Event | |
| There are no critical facilities in Freeville located in flood prone areas. | | | | |

9.8.6.2 Hazard Ranking

This section provides the community specific identification of the primary hazard concerns based on identified problems, impacts and the results of the risk assessment as presented in Section 5 (Risk Assessment) of the plan. The ranking process involves an assessment of the likelihood of occurrence for each hazard, along with its potential impacts on people, property, and the economy as well as community capability and changing future climate conditions. This input supports the mitigation action development to target those hazards with highest level of concern.

As discussed in Section 5.3 (Hazard Ranking), each participating jurisdiction may have differing degrees of risk exposure and vulnerability compared to Tompkins County as a whole. Therefore, each municipality ranked



the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Village of Freeville. The Village of Freeville has reviewed the Village hazard risk/vulnerability risk ranking table as well as its individual results to reflect the relative risk of the hazards of concern to the community.

During the review of the hazard/vulnerability risk ranking, the Village of Freeville indicated the following:

- Floods remain a consistent concern for the Village. With two creeks, a valley location and high water table, flooding can happen frequently. The Village overall concurs with the hazard rankings, but does feel that Harmful Algal Blooms are not applicable to the Village and thus has low concern..

Table 9.8-17. Hazard Ranking Input

| Hazard | Ranking |
|---------------------|---------|
| Disease Outbreak | Low |
| Drought | Medium |
| Extreme Temperature | Medium |
| Flood | High |
| Harmful Algal Bloom | Low/NA |
| Invasive Species | Low |
| Severe Storm | Low |
| Severe Winter Storm | Medium |

Note: The scale is based on the following hazard rankings as established in Section 5.3.

**The Village of Freeville changed the initial ranking of this hazard based on event history, municipal experience, and feedback from the Village of Freeville*

9.8.6.3 Identified Issues

The Village of Freeville has identified the following vulnerabilities within their community:

- Floods and storms remain the largest vulnerability to the Village.

Specific areas of concern based on resident response to the Village of Freeville Hazard Mitigation Citizen survey include:

- Most respondents were concerned with drought or flooding.
- No respondent has been evacuated as a result of a hazard event.
- Survey respondents felt that the Fall Creek floodplain was a specific vulnerability in the Village.

9.8.7 Mitigation Strategy and Prioritization

This section discusses past mitigations actions and status, describes proposed hazard mitigation initiatives, and their prioritization.



9.8.7.1 Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2014 Plan. Actions that are carried forward as part of this plan update are included in the following subsection in its own table with prioritization. Previous actions that are now on-going programs and capabilities are indicated as such in the following table and may also be found under ‘Capability Assessment’ presented previously in this annex.



Table 9.8-18. Status of Previous Mitigation Actions

| Project # | Project Name | Hazard(s) Addressed | Responsible Party | Brief Summary of the Original Problem and the Solution (Project) | Status (In Progress, Ongoing, No Progress, Complete) | Evaluation of Success (if complete) | | Next Steps 1. Project to be included in 2021 HMP or Discontinue 2. If including action in the 2021 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why. |
|-----------|--------------|---------------------------|----------------------|--|--|--------------------------------------|---------------------|--|
| | | | | | | Cost | Level of Protection | |
| F1 | | Flash Flood, Severe Storm | Village of Freeville | Encourage Interagency collaboration in the humane management of beaver populations, particularly in Fall and Virgil Creeks | No longer issue | Cost | - | Do not include in update |
| | | | | | | Level of Protection | - | |
| | | | | | | Damages Avoided; Evidence of Success | - | |
| F2 | | Flash Flood, Severe Storm | Village of Freeville | Address drainage issues near private homes along Virgil Creek | | Cost | ~\$20,000 | Include but modify as actively monitor and remove debris from systems in and around former railroad bridges on Fall and Virgil Creeks. |
| | | | | | | Level of Protection | NA | |
| | | | | | | Damages Avoided; Evidence of Success | Temp benefit | |



9.8.7.2 Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Village of Freeville has identified the following mitigation projects/activities that have also been completed but were not identified in the previous mitigation strategy in the 2014 Plan:

- The Village of Freeville continually removes debris from under abandoned railroad bridges to help reduce flooding to nearby residential properties.

9.8.7.3 Proposed Hazard Mitigation Initiatives for the Plan Update

The Village of Freeville participated in a mitigation action workshop in October 2020 and was provided the following FEMA publications to use as a resource as part of their comprehensive review of all possible activities and mitigation measures to address their hazards: e.g., FEMA 551 'Selecting Appropriate Mitigation Measures for Floodprone Structures' (March 2007) and FEMA 'Mitigation Ideas – A Resource for Reducing Risk to Natural Hazards' (January 2013).

Table **9.8-19** summarizes the comprehensive-range of specific mitigation initiatives the Village of Freeville would like to pursue in the future to reduce the effects of hazards. Some of these initiatives may be previous actions carried forward for this plan update. These initiatives are dependent upon available funding (grants and local match availability) and may be modified or omitted at any time based on the occurrence of new hazard events and changes in municipal priorities. Both the four FEMA mitigation action categories and the six CRS mitigation action categories are listed in the table below to further demonstrate the wide-range of activities and mitigation measures selected.

As discussed in Section 6 (Mitigation Strategy), 14 evaluation/prioritization criteria are used to complete the prioritization of mitigation initiatives. For each new mitigation action, a numeric rank is assigned (-1, 0, or 1) for each of the 14 evaluation criteria to assist with prioritizing your actions as 'High', 'Medium', or 'Low.' The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.8-20 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.8-19. Proposed Hazard Mitigation Initiatives

| Project Number | Project Name | Goals Met | Hazard(s) to be Mitigated | Description of Problem and Solution | Critical Facility (Yes/No) | EHP Issues | Estimated Timeline | Lead Agency | Estimated Costs | Estimated Benefits | Potential Funding Sources | Priority | Mitigation Category | CRS Category |
|-------------------------|---|-----------|---------------------------|--|----------------------------|------------|--------------------|----------------------|-----------------|--------------------------|------------------------------------|----------|---------------------|--------------|
| 2021- V Freeville - 001 | Backup Power for Sewer Facilities | 1 | Severe Storm | <p>Problem: The sewer plant and several important pump stations do not have any backup power. If power is lost trucks need to come in and manually pump stations. This takes valuable resources away from other services during this time.</p> <p>Solution: New generator hookup for sewer plant and 4 generators at the ready for the four main pump stations.</p> | Yes | No | 6 months | Village of Freeville | \$20,000 | Consistent sewer service | BRIC?, HMGP | High | SIP | ES |
| 2021- V Freeville - 002 | Living Snow Fence on Fall Creek Road | 3 | Severe Winter Storm | <p>Problem: Because of open fields on both sides of road snow blows and drifts on the roadway which serves as key evacuation route creating a hazard in the winter.</p> <p>Solution: Plant trees to block wind and help with blowing snow will result in a safer roadway.</p> | No | No | 3 months | Village of Freeville | \$2,500 | ? | County Stream Corridor Funds, SWCD | Med | NSP | NR |
| 2021- V Freeville - 003 | Material Management Plan for Flood Prevention | 1, 4 | Flood | <p>Problem: Trees and other items get hung up on RR trestles and cause ice dams and other water backup hazards. This lack of flow causes the creek to flood banks.</p> <p>Solution: The Village will conduct a field survey to document problem areas, source of problems, and solutions to mitigate frequent and damaging water back up and ice dams to identify the needs and key resources to develop a programmatic stream management program maintenance in order to reduce flood risk. This could Likely</p> | No | Yes | 1 year | Village of Freeville | \$10,000 | ? | DEC WQIP | Low | NSP | NR |



Table 9.8-19. Proposed Hazard Mitigation Initiatives

| Project Number | Project Name | Goals Met | Hazard(s) to be Mitigated | Description of Problem and Solution | Critical Facility (Yes/No) | EHP Issues | Estimated Timeline | Lead Agency | Estimated Costs | Estimated Benefits | Potential Funding Sources | Priority | Mitigation Category | CRS Category |
|-------------------------|---|-----------|---------------------------|---|----------------------------|------------|--------------------|----------------------|-----------------|--------------------|---------------------------|----------|---------------------|--------------|
| | | | | to include regular need for buying or renting procurement or lease of specialized equipment | | | | | | | | | | |
| 2021- V Freeville - 004 | Village Fall Creek Stream Buffer Protection | 2,3 | Flood | <p>Problem: Development of vacant parcels in and around the floodplain of Fall Creek</p> <p>Solution: Develop a Village policy to acquire vacant parcels in the regulatory floodplain to eliminate further development in floodprone areas and to create opportunities for natural flood attenuation and open space. In addition the Village will explore the adoption of a streamside buffer law for added protection.</p> | No | No | 6 months | Village of Freeville | \$1,000 | ? | NA | Med | LPR | PR |

Notes:

Not all acronyms and abbreviations defined below are included in the table.

Acronyms and Abbreviations:

CAV Community Assistance Visit
 CRS Community Rating System
 DPW Department of Public Works
 EHP Environmental Planning and Historic Preservation
 FEMA Federal Emergency Management Agency
 FPA Floodplain Administrator
 HMA Hazard Mitigation Assistance
 N/A Not applicable
 NFIP National Flood Insurance Program
 OEM Office of Emergency Management

Potential FEMA HMA Funding Sources:

FMA Flood Mitigation Assistance Grant Program
 HMGP Hazard Mitigation Grant Program
 PDM Pre-Disaster Mitigation Grant Program
 BRIC Building Resilient Infrastructure and Communities Program

Timeline:

The time required for completion of the project upon implementation

Cost:


The estimated cost for implementation.

Benefits:

A description of the estimated benefits, either quantitative and/or qualitative.



Critical Facility:

Yes  Critical Facility located in 1% floodplain

Mitigation Category:

- *Local Plans and Regulations (LPR)* – These actions include government authorities, policies or codes that influence the way land and buildings are being developed and built.
- *Structure and Infrastructure Project (SIP)* - These actions involve modifying existing structures and infrastructure to protect them from a hazard or remove them from a hazard area. This could apply to public or private structures as well as critical facilities and infrastructure. This type of action also involves projects to construct manmade structures to reduce the impact of hazards.
- *Natural Systems Protection (NSP)* – These are actions that minimize damage and losses, and also preserve or restore the functions of natural systems.
- *Education and Awareness Programs (EAP)* – These are actions to inform and educate citizens, elected officials, and property owners about hazards and potential ways to mitigate them. These actions may also include participation in national programs, such as StormReady and Firewise Communities

CRS Category:

- *Preventative Measures (PR)* - Government, administrative or regulatory actions, or processes that influence the way land and buildings are developed and built. Examples include planning and zoning, floodplain local laws, capital improvement programs, open space preservation, and storm water management regulations.
- *Property Protection (PP)* - These actions include public activities to reduce hazard losses or actions that involve (1) modification of existing buildings or structures to protect them from a hazard or (2) removal of the structures from the hazard area. Examples include acquisition, elevation, relocation, structural retrofits, storm shutters, and shatter-resistant glass.
- *Public Information (PI)* - 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 educational programs for school-age children and adults.
- *Natural Resource Protection (NR)* - 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.
- *Structural Flood Control Projects (SP)* - 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.
- *Emergency Services (ES)* - 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



Table 9.8-20. Summary of Prioritization of Actions

| Project Number | Project Name | Life Safety | Property Protection | Cost-Effectiveness | Technical | Political | Legal | Fiscal | Environmental | Social | Administrative | Multi-Hazard | Timeline | Agency Champion | Other Community | Total | High / Medium / Low |
|----------------------------|---|-------------|---------------------|--------------------|-----------|-----------|-------|--------|---------------|--------|----------------|--------------|----------|-----------------|-----------------|-------|---------------------|
| 2021- V Freeville – 001 | Backup Power for Sewer Facilities | 0 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 | High |
| 2021- V Freeville – 002 | Living Snow Fence on Fall Creek Road | 1 | 1 | 1 | 0 | 1 | 0 | 0 | 1 | 1 | 0 | 0 | 1 | 0 | 1 | 8 | Medium |
| 2021- V Freeville – 003 | Material Management Plan for Flood Prevention | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 13 | High |
| 2021- V Freeville - 004 | Village Fall Creek Stream Buffer Protection | 1 | 0 | 1 | 0 | -1 | -1 | 0 | 1 | 1 | 0 | 0 | 0 | 0 | 0 | 2 | Low |

Note: Refer to Section 6, which conveys guidance on prioritizing mitigation actions. Low (0-4), Medium (5-8), High (9-14).



9.8.8 Proposed Mitigation Action Types

The table below indicates the range of proposed mitigation action categories.

Table 9.8-21. Analysis of Mitigation Actions by Hazard and Category

| Hazard | FEMA | | | | PR | PP | PI | CRS | | ES |
|--------------|------|-----|-------------|-----|-----|----|----|-------------|-----|----|
| | LPR | SIP | NSP | EAP | | | | NR | SP | |
| Flood | 004 | | 003; 004 | | 004 | | | 003; 004 | | |
| Severe Storm | | 001 | 002 | | | | | 002 | 001 | |

Note: Section 6 (Mitigation Strategy) provides for an explanation of the mitigation categories.

9.8.9 Staff and Local Stakeholder Involvement in Annex Development

The Village of Freeville followed the planning process described in Section 3 (Planning Process) in Volume I of this plan update. This annex was developed over the course of several months with input from many Village departments, including: Code Enforcement, Clerks Office and Village Trustees. Jason Cuykendall, Village Trustee, represented the community on the Village of Freeville Hazard Mitigation Plan Planning Partnership, and supported the local planning process requirements by securing input from persons with specific knowledge to enhance the plan. All departments were asked to contribute to the annex development through reviewing and contributing to the capability assessment, reporting on the status of previously identified actions, and participating in action identification and prioritization.

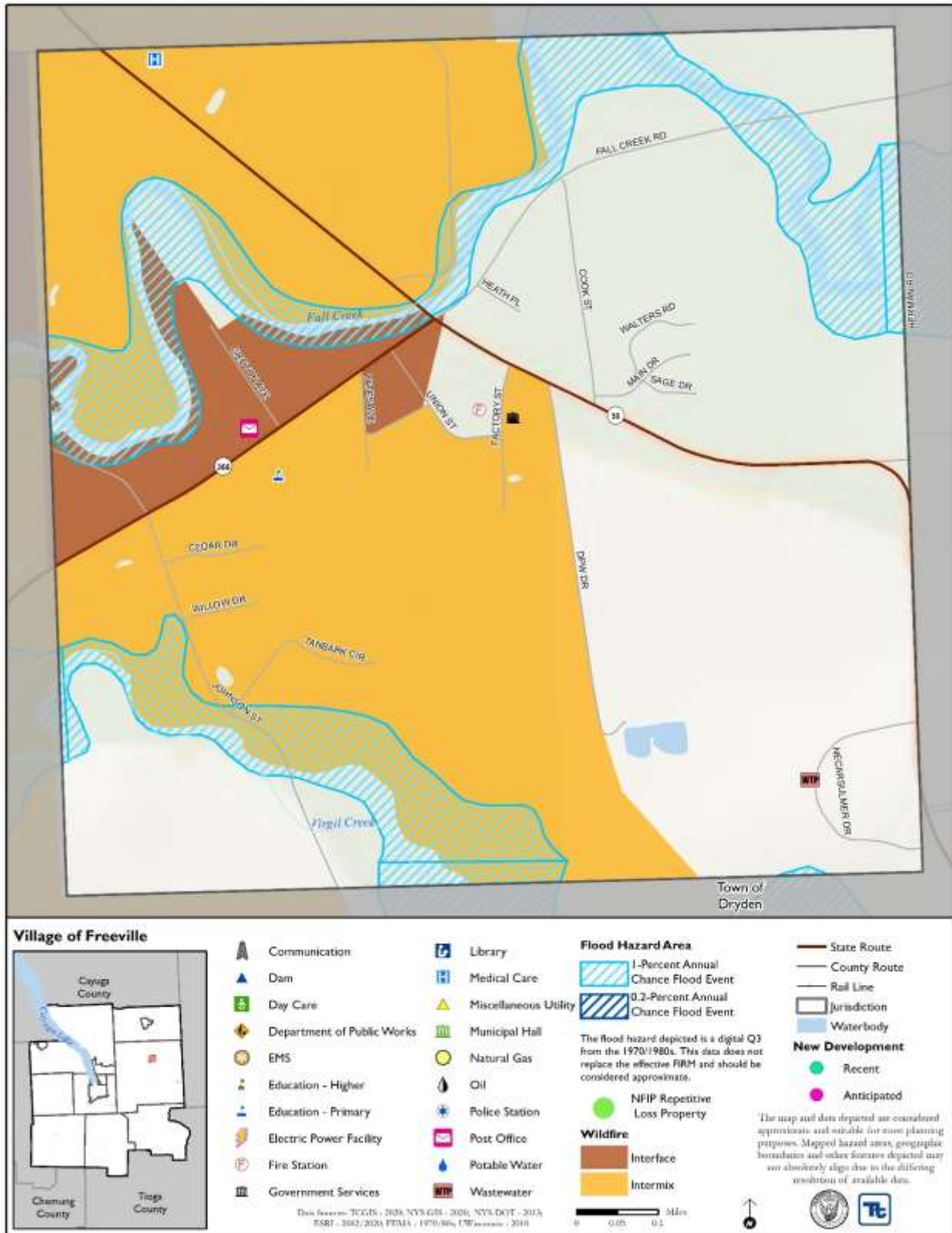
Additional documentation on the Village of Freeville’s planning process through Planning Partnership meetings is included in Section 3 (Planning Process) and Appendix C (Meetings).

9.8.10 Hazard Area Extent and Location

A hazard area extent and location map has been generated for the Village of Freeville that illustrates the probable areas impacted within the Village of Freeville. This map is based on the best available data at the time of the preparation of this plan, and is considered to be adequate for planning purposes. The map has only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Village of Freeville has significant exposure. The map is provided below.



Figure 9.8-1. Village of Freeville Hazard Area Extent and Location Map



| Action Worksheet | | | |
|---|--|---|--|
| Project Name: | Backup Power for Sewer Facilities | | |
| Project Number: | 2021- V Freeville – 001 | | |
| Risk / Vulnerability | | | |
| Hazard(s) of Concern: | Severe Storm | | |
| Description of the Problem: | The sewer plant and several important pump stations do not have any backup power. If power is lost trucks need to come in and manually pump stations. This takes valuable resources away from other services during this time. | | |
| Action or Project Intended for Implementation | | | |
| Description of the Solution: | New generator hookup for sewer plant and 4 generators at the ready for the four main pump stations. | | |
| Is this project related to a Critical Facility? | | Yes <input checked="" type="checkbox"/> | No <input type="checkbox"/> |
| Is the critical facility located in the 1% annual chance flood area? | | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| (If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater) | | | |
| Level of Protection: | NA | Estimated Benefits (losses avoided): | Uninterrupted sewer service. |
| Useful Life: | Unknown | Goals Met: | 1 |
| Estimated Cost: | 20,000 | Mitigation Action Type: | SIP |
| Plan for Implementation | | | |
| Prioritization: | High | Desired Timeframe for Implementation: | 2021 |
| Estimated Time Required for Project Implementation: | 1 Year | Potential Funding Sources: | BRIC; HMGP |
| Responsible Organization: | Village of Freeville DPW | Local Planning Mechanisms to be Used in Implementation if any: | Hazard Mitigation Plan |
| Three Alternatives Considered (including No Action) | | | |
| Alternatives: | Action | Estimated Cost | Evaluation |
| | No Action | \$0 | Interrupted sewer service |
| | Portable Generator | \$5,000 | Available to power aspects of plant for short time |
| | Permanent Generator | \$60,000 | Much more consistent back up option |
| Progress Report (for plan maintenance) | | | |
| Date of Status Report: | | | |
| Report of Progress: | | | |
| Update Evaluation of the Problem and/or Solution: | | | |



| Action Worksheet | | |
|-----------------------------------|------------------------------------|--|
| Project Name: | Backup Power for Sewer Facilities | |
| Project Number: | 2021- V Freeville – 001 | |
| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
| Life Safety | 0 | This project protects life |
| Property Protection | 1 | This project protects property |
| Cost-Effectiveness | 1 | This project is most cost effective |
| Technical | 1 | There are no technical difficulties identified |
| Political | 1 | There are no political complications |
| Legal | 1 | There are no legal complications |
| Fiscal | 0 | Costs have not fully been determined at this time |
| Environmental | 1 | This project has a positive environmental impact |
| Social | 1 | This project has a positive social impact |
| Administrative | 1 | This project has administrative support |
| Multi-Hazard | 1 | This addresses multiple hazards |
| Timeline | 1 | The timeline is feasible |
| Agency Champion | 1 | Yes |
| Other Community Objectives | 1 | Yes |
| Total | 12 | |
| Priority (High/Med/Low) | High | |



| Action Worksheet | | | |
|---|--|---|---|
| Project Name: | Living Snow Fence: Trees on Fall Creek Road | | |
| Project Number: | 2021- V Freeville – 002 | | |
| Risk / Vulnerability | | | |
| Hazard(s) of Concern: | Severe Winter Storm | | |
| Description of the Problem: | Because of open fields on both sides of road snow blows and drifts on the roadway creating a hazard in the winter. | | |
| Action or Project Intended for Implementation | | | |
| Description of the Solution: | Plant trees to block wind and help with blowing snow. | | |
| Is this project related to a Critical Facility? | | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| Is the critical facility located in the 1% annual chance flood area? | | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| (If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater) | | | |
| Level of Protection: | Unknown | Estimated Benefits (losses avoided): | Avoid hazardous evacuation route |
| Useful Life: | 50 Years | Goals Met: | 1, 3 |
| Estimated Cost: | 25 trees at \$100 each | Mitigation Action Type: | NSP |
| Plan for Implementation | | | |
| Prioritization: | High | Desired Timeframe for Implementation: | 2021 |
| Estimated Time Required for Project Implementation: | 3 months planning and planting | Potential Funding Sources: | County stream corridor program; State Tree for Tribes funds |
| Responsible Organization: | Village of Freeville DPW | Local Planning Mechanisms to be Used in Implementation if any: | |
| Three Alternatives Considered (including No Action) | | | |
| Alternatives: | Action | Estimated Cost | Evaluation |
| | No Action | \$0 | Current problem continues |
| | Install snow fencing | \$500 | Non-permanent; eyesore |
| | Tree planting | \$2500 | Low tech; multi-benefit |
| Progress Report (for plan maintenance) | | | |
| Date of Status Report: | | | |
| Report of Progress: | | | |
| Update Evaluation of the Problem and/or Solution: | | | |



| Action Worksheet | | |
|-----------------------------------|---|--|
| Project Name: | Living Snow Fence: Trees on Fall Creek Road | |
| Project Number: | 2021- V Freeville – 002 | |
| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
| Life Safety | 1 | This project protects life |
| Property Protection | 1 | This project protects property |
| Cost-Effectiveness | 1 | This project is most cost effective |
| Technical | 0 | Additional technical assistance is needed |
| Political | 1 | There are no political complications |
| Legal | 0 | Legality has not been identified |
| Fiscal | 0 | Costs have not fully been determined at this time |
| Environmental | 1 | This project has a positive environmental impact |
| Social | 1 | This project has a positive social impact |
| Administrative | 0 | Administrative support has not been identified |
| Multi-Hazard | 0 | This does not address multiple hazards |
| Timeline | 1 | The timeline is feasible |
| Agency Champion | 0 | Agency champion has not been identified |
| Other Community Objectives | 1 | Yes |
| Total | 8 | |
| Priority (High/Med/Low) | Medium | |



| Action Worksheet | | | |
|---|--|---|---|
| Project Name: | Material Management Plan for Flood Prevention | | |
| Project Number: | 2021- V Freeville – 003 | | |
| Risk / Vulnerability | | | |
| Hazard(s) of Concern: | | | |
| Description of the Problem: | Trees and other items get hung up on RR trestles and cause ice dams and other water backup hazards. This lack of flow causes the creek to flood banks. | | |
| Action or Project Intended for Implementation | | | |
| Description of the Solution: | Solution: The Village will conduct a field survey to document problem areas, source of problems, and solutions to mitigate frequent and damaging water back up and ice dams to identify the needs and key resources to develop a programmatic stream management program maintenance in order to reduce flood risk. This could Likely to include regular need for buying or renting procurement or lease of specialized equipment | | |
| Is this project related to a Critical Facility? | | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| Is the critical facility located in the 1% annual chance flood area? | | Yes <input type="checkbox"/> | No <input checked="" type="checkbox"/> |
| (If yes, this project must intend to protect the 500-year flood event or the actual worse case damage scenario, whichever is greater) | | | |
| Level of Protection: | Unknown | Estimated Benefits (losses avoided): | Reduced flood risk |
| Useful Life: | Unknown | Goals Met: | 1,3 |
| Estimated Cost: | 60,000 | Mitigation Action Type: | NSP |
| Plan for Implementation | | | |
| Prioritization: | High | Desired Timeframe for Implementation: | |
| Estimated Time Required for Project Implementation: | | Potential Funding Sources: | |
| Responsible Organization: | Village of Freeville DPW | Local Planning Mechanisms to be Used in Implementation if any: | |
| Three Alternatives Considered (including No Action) | | | |
| Alternatives: | Action | Estimated Cost | Evaluation |
| | No Action | \$0 | Current problem continues |
| | Rent Backhoe | \$500 per day | Backhoe is not always available to rent when needed and it takes time and resources to get |
| | Develop plan for acquiring and share key materials need for periodic stream infrastructure maintenance including backhoe. | \$60,000 | Develop long term maintenance plan and acquire key equipment. |
| Progress Report (for plan maintenance) | | | |



| | |
|--|--|
| Date of Status Report: | |
| Report of Progress: | |
| Update Evaluation of the Problem and/or Solution: | |



| Action Worksheet | | |
|-----------------------------------|---|--|
| Project Name: | Material Management Plan for Flood Prevention | |
| Project Number: | 2021- V Freeville – 003 | |
| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
| Life Safety | 1 | |
| Property Protection | 1 | |
| Cost-Effectiveness | 1 | If it never prevents a flood then no, but if it save a property worth every cent |
| Technical | 1 | |
| Political | 1 | |
| Legal | 1 | |
| Fiscal | 0 | |
| Environmental | 1 | |
| Social | 1 | |
| Administrative | 1 | |
| Multi-Hazard | 1 | Could be used for storm tree removal |
| Timeline | 1 | |
| Agency Champion | 1 | |
| Other Community Objectives | 1 | |
| Total | 13 | |
| Priority (High/Med/Low) | High | |

