

9.4 Town of Danby

This section presents the jurisdictional annex for the Town of Danby. 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 Town of Danby and who in the Town participated in the planning process; an assessment of the Town of Danby’s risk and vulnerability; the different capabilities utilized in the Town; and an action plan that will be implemented to achieve a more resilient community.

9.4.1 Hazard Mitigation Planning Team

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

Table 9.4-1. Hazard Mitigation Planning Team

| Primary Point of Contact | Alternate Point of Contact |
|---|--|
| Name/Title: Steve Cortright, Code Enforcement Officer Address: 1830 Danby Rd., Ithaca, NY 14850 Phone Number: 607-277-0799 Email: code@townofdanbyny.org | Name/Title: Matt Ulinski, Town Councilperson/Deputy Supervisor Address: 1830 Danby Rd., Ithaca, NY 14850 Phone Number: 607-272-2906 Email: mulinski@townofdanbyny.org |
| NFIP Floodplain Administrator | |
| Name/Title: Steve Cortright, Code Enforcement Officer Address: 1830 Danby Rd., Ithaca, NY 14850 Phone Number: 607-277-0799 Email: code@townofdanbyny.org | |

9.4.2 Municipal Profile

The Town of Danby is a rural town spread out among the highlands south of Cayuga Lake in the Finger Lakes Region of New York. Danby is part of the greater Ithaca urban area, located in the center of southern Tompkins County. Bordered on the north by the Town of Ithaca and on the east by the Town of Caroline, Danby encompasses 53.6 square miles. The Town includes two unincorporated hamlets, West Danby and Central Danby. State Route 96B (Danby Road) and Route 34/96 (Spencer Road) pass through the town. Buttermilk Creek runs north through the center of Danby, flowing to the gorge and falls in Buttermilk Falls State Park. The Cayuga Inlet also runs north through the western part of the town towards Cayuga Lake. Several wetlands are located within Danby, along with 11 designated Unique Natural Areas (UNAs).

First settled in the late 18th century, Danby was dominated by agriculture including small-scale subsistence farming, cattle and sheep grazing, and the production of wheat, corn, hay, tobacco, and some fruits and



vegetables. The population grew with the building of the Ithaca-Owego turnpike (now Route 96B) in 1810 and was officially incorporated in 1811 as part of Tioga County. In 1822, Danby was annexed into Tompkins County. Almost all of the town’s commercial development is concentrated along Route 96B, with some additional small-scale light industrial sites located in the northern and central parts of the town. Southern Danby is heavily forested, with one-quarter of the total land area being located within the Danby State Forest.

Danby is governed by a Town Board, consisting of four Council members elected for 4-year terms, and a Supervisor, elected for a 2-year term. The Town Board controls Town finances, budget, and salaries. Members of the Planning Board, Board of Zoning Appeals, and Conservation Advisory Council are appointed by the Town Board.

According to the 2014-2018 American Community Survey, the population for the Town of Danby is 3438.

9.4.3 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 9.4-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. Figure 9.4-1 at the end of this annex illustrates the geographically delineated hazard areas and the location of potential new development, where available.

Table 9.4-2. 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 | 31 | - | 14 | - | 19 | - | 14 | - | 10 | - |
| Multi-Family | | - | | - | | - | | - | | - |
| Other (commercial, mixed-use, etc.) | 25 | - | 6 | - | 10 | - | 15 | - | 10 | - |
| Total | 56 | - | 20 | - | 29 | - | 29 | - | 20 | - |
| 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 | | | | | | | | | | |
| Gunderman Rd | Upsized culvert | 1 | 65 Gunderman Rd | | Flood Zone | | Complete 2020 | | | |
| Troy Rd | Upsized culvert | 1 | 400 block Troy Rd | | Flood Zone | | Complete 2020 | | | |
| Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years | | | | | | | | | | |
| Olsefski Rd | Upsized culvert | 1 | 0-100 block | | Flood Zone | | Anticipated | | | |



| Type of Development | 2014 | 2015 | 2016 | 2017 | 2018 |
|---------------------------------|-------------------------------------|------|-------------|------------|-------------|
| Gundermann Rd @Buttermilk creek | Upsized culvert at stream crossing | 1 | 0-100 block | Flood Zone | Anticipated |
| West Jersey Hill Rd@ Lick Brook | Upsized culvert at stream crossing | 1 | 0-100 block | Flood Zone | Anticipated |
| Bruce Hill @ stream crossing | Up sized culvert at stream crossing | 1 | 0-100 block | Flood Zone | Anticipated |

SFHA Special Flood Hazard Area (1% flood event)

* Only location-specific hazard zones or vulnerabilities identified.

**Information not documented.

9.4.4 Capability Assessment

The Town of Danby 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.

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 9.4.4). The Town of Danby 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.

9.4.4.1 Planning, Legal, and Regulatory Capability

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



Table 9.4-3. 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 |
| <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 | 2017, July | 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</p> <ul style="list-style-type: none"> • Zoning 2017. The purposes of the Zoning Code are to; Promote the health, safety, morals, and general welfare of the community; Lessen the congestion on the highways; Secure safety from fire, panic, and other dangers; Protect the environment; Provide adequate light and air; and Prevent the overcrowding of land, avoid undue concentration of the population, facilitate the adequate provisions of transportation, water, sewage, schools, parks, and other public requirements. • The Code establishes the following Zones: Low Density Residential Zone, Medium Density Residential Zone, High Density Residential Zone, Commercial Target Area, Planned Development Zone, Mobile Home Park Zone, Aquifer High Vulnerability (AHV) Overlay Zone. <p>*During the next update of the municipal zoning code, the Town 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 | July 2016 | 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).</p> <ul style="list-style-type: none"> • Subdivision of Land Regulations 2016. These regulations are intended to guide and protect the community's physical, social, and aesthetic development in accordance with the Town of Danby Comprehensive Plan, The regulations, standards, and procedures contained in this Chapter are to ensure; that land to be divided is suitable for building purposes without creating dangers to health or peril from fire, flood, or other menace; that proper provision is made for drainage, water supply, sewerage, highways, open space, and other needed improvements; that development is made in such a manner that it protects and conserves natural, agricultural and historical resources; and that there is optimum overall conservation, protection, and responsible use of the environmental resources of the Town of Danby. • Final Plats must depict the location and required setbacks from waterbodies, Aquifer High Vulnerability (AHV) Overlay Zones, and the 100-year floodplain; and All existing wooded areas, watercourses, slopes of 15% or greater, critical environmental areas, and other significant physical features within the area to be subdivided and within 200 feet of the proposed subdivision's boundaries. • In the Low Density Residential Zone, the following areas shall not be built on or disturbed during site construction, except for no or low impact permitted uses listed in this Chapter: <ol style="list-style-type: none"> 1. Areas of 100-year flooding as defined by the Federal Emergency Management Agency (FEMA) Flood Insurance Rate Maps. | | | | | |



| | 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>2. Wetlands, including those shown on the New York State Freshwater Wetlands Maps, and those shown in the National Wetlands Inventory.</p> <p>3. Intermittent and Perennial Streams, including a 50-foot buffer from the stream centerline</p> <p>*When the Town 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 Town encourage new developers to design areas that avoids or minimizes hazards.</p> | | | | | |
| Stormwater Management Regulations | Yes | Title 6, Ch. X,17-7,8,70- Local Law No. 1 of 2010 | Local | SMO | 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> <ul style="list-style-type: none"> Local Law No. 1 of 2010. Stormwater Management, Erosion and Sediment Control enacted by the Town Board. The purpose of this Local Law is to establish minimum Stormwater management requirements and standards, including, as applicable, Land Development Activity and Stormwater Management Practice requirements and standards necessary to minimize potential harm to the environment, to promote public health, welfare, and Page 9 of 29 safety, and to control and minimize the adverse effects associated with Erosion, Sedimentation, unregulated Stormwater, Point Source Pollution, and Nonpoint Source Pollution. This Local Law shall be applicable to all Land Development Activities that exceed any one of the minimum thresholds in this /chapter. No person may undertake a Land Development Activity without first meeting the requirements of this Local Law. The Town Board shall appoint one (or more) Stormwater Management Officer, SMOs to administer, implement, and enforce the provisions of this Local Law. No Land Development Activity subject to this local law shall be commenced until the SMO has approved a SWPPP. All Land Development Activities subject to review and approval by the Town Board or Planning Board under Zoning, Rezoning, Subdivision, Site Plan, and Special Permit laws, rules, ordinances or regulations shall be reviewed subject to the standards contained in this Local Law. It is one of the Objectives of this Chapter to minimize increases in Stormwater Runoff and Erosion generated by Land Development Activities in order to, reduce flooding, reduce siltation, reduce increases in stream temperatures, reduce Erosion, and maintain the integrity of streams and other Watercourse and Waterway channels and Surface Waters. <p>*This addresses localized flooding issues.</p> | | | | | |
| Post-Disaster Recovery Plan or Regulation | No | | | | No |
| Comment: | | | | | |
| 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> <p>*The Town 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 Town.</p> | | | | | |
| Growth Management Regulation | No | | | Local Planning Board | No |
| <p>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.</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 |
|--|--|---|---|---------------------------------|---|
| Site Plan Review | Yes | General City Law s. 27-a, Town Law s. 247a, Village Law s. 7-725a 2020 | Local | Local Planning Board | No |
| <p>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 Town updates the site plan review requirements, they will review the HMP and identify ways, if any, to integrate the HMP into the requirements.</p> | | | | | |
| Environmental Protection | Yes | Title 6 NYCRR Part 617 | State | None | Yes |
| <p>Comment: New State Environmental Quality Review Act (SEQR) Title 6 NYCRR Part 617 Regulations are in effect as of January 1st, 2019</p> | | | | | |
| Flood Damage Prevention Law | No | Federal :Participation in the NFIP State: Community Risk and Resiliency Act (CRRA) | Local, State, Federal | Town | Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential) |
| <p>Comment: A community must adopt a Flood Damage Prevention Ordinance to participate in the National Flood Insurance Program. *The Town's law meets the minimum requirements set by NYS. In the event those requirements are revised, the Town will revise their law to include any revisions.</p> | | | | | |
| Municipal Separate Storm Sewer System (MS4) Regulation | No | EPA Phase II Stormwater Rule | Federal | None | Yes |
| <p>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.</p> | | | | | |
| Emergency Management | Yes | NYS Executive Law, Article 2B. | Local | Local OEM | Yes |
| <p>Comment: The development of the New York State Comprehensive Emergency Management Plan (CEMP) is required under NYS Executive Law, Article 2B.</p> | | | | | |
| Climate Adaptation | Yes | NYS Executive Law, Article 75 | Local | Town | Yes |
| <p>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.</p> | | | | | |
| Disaster Recovery Ordinance | No | - | - | - | No |
| <p>Comment:</p> | | | | | |
| Disaster Reconstruction Ordinance | No | - | - | - | No |
| <p>Comment:</p> | | | | | |
| Other Applicable Codes, Ordinances, & Requirements | - | - | - | - | - |
| <p>Comment:</p> | | | | | |
| <p>Planning Documents</p> | | | | | |
| Comprehensive Plan | Yes | General City Law section 28a(3)(a); Town Law section | Local | Planning | 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 |
|--|--|--|---|---------------------------------|----------------|
| | | 272-a(2)(a); Village Law section 7-722(2)(a), updated 2011 | | | |
| <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</p> <ul style="list-style-type: none"> Comprehensive Plan 2011. Among the goals of the Comprehensive Plan are that; Danby's natural resources and natural areas are maintained, enhanced, and protected by public and private activities; Agriculture is protected as a potential "steward" of the environment and open space; and Land use practices of the Town seek to preserve natural, agricultural, and historic resources in Danby and the greater community. The Plan recommends designating areas where development should be encouraged and areas where development should be discouraged; Providing incentives and appropriate regulations for clustered development and associated open-space conservation; Protecting water resources from sedimentation, run-off from erosion, drainage, contamination and flooding; and Providing innovative and responsible land use policies enhance both environmental protection and local economic development. In 1991, the Town enacted extensive revisions to the Zoning Ordinance and Zoning Map, adopted new Subdivision Regulations, and approved local laws related to environmental review and flood damage prevention. These actions were intended to implement the goals of the 1989 Comprehensive Plan. Among the Plan's objectives are to Protect water resources from sedimentation, run-off from erosion, drainage, contamination and flooding. To follow through on this objective, the Plan recommends; Enhancing the study of drainage, runoff, and water use in the review of development applications and require drainage planning or improvements and erosion and sedimentation control as needed; Supporting the wetlands protection enforcement efforts of State and Federal agencies; Identifying properties outside the 100-year floodplain that are frequently subject to flooding and develop plans for flood hazard mitigation. Consider applying to FEMA for Project Impact hazard mitigation funding; and prohibiting or discouraging development on erosion-prone steep slopes. <p>*When the Town 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 |
| <p>Comment: A local government can decide to adopt its capital plan pursuant to General Municipal Law Section 99-g.</p> | | | | | |
| Disaster Debris Management Plan | No | | Local | NA | No |
| <p>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.</p> | | | | | |
| Floodplain or Watershed Plan | Yes | - | Local | - | No |
| <p>Comment: The State Pollutant Discharge Elimination System (SPDES) permit program is a primary way the DOW implements its watershed protection and restoration activities.</p> | | | | | |
| Stormwater Plan | Yes | Law adopted Feb 2010 | Local | - | No |
| <p>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.</p> | | | | | |
| Open Space Plan | Yes | NYS Constitution - Article 9; Statute of Local Governments. Section 10 (7) | Local | - | 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 |
|---|--|--|---|---------------------------------|----------------|
| 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 | - | - | - | No |
| Comment: | | | | | |
| Habitat Conservation Plan | No | - | - | - | 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 | - | 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 | - | - | - | 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 - | County | ? | 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.) | - | - | - | - | - |
| Comment: none | | | | | |
| Response/Recovery Planning | | | | | |
| Comprehensive Emergency Management Plan | 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. 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 |
|---|--|---|---|---------------------------------|----------------|
| *When the Town 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 Town 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 | Yes | 2020 COVID 19 Plan | 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: | No | - | - | - | 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. | | | | | |
| Other: Special Purpose Ordinances (such as critical or sensitive areas) | | | | | |
| Comment: | | | | | |

Table 9.4-4. Development and Permitting Capability

| Indicate if your jurisdiction implements the following | Response Yes/No; Provide further detail |
|---|---|
| Development Permits. If yes, what department? | No |
| 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 |

9.4.4.2 Administrative and Technical Capability

The table below summarizes potential staff and personnel resources available to the Town of Danby.

Table 9.4-5. Administrative and Technical Capabilities

| Resources | Available? (Yes or No) | Department/ Agency/Position |
|----------------------------------|------------------------|-----------------------------|
| Administrative Capability | | |



| Resources | Available? (Yes or No) | Department/ Agency/Position |
|--|---------------------------|---------------------------------|
| Planning Board | Yes | - |
| Mitigation Planning Committee | No | - |
| Environmental Board/Commission | Yes | Conservation Advisory Committee |
| Open Space Board/Committee | Yes | Conservation Advisory Committee |
| Economic Development Commission/Committee | No | - |
| Warning Systems / Services (reverse 911, outdoor warning signals) | Yes | 911 Swift |
| Maintenance programs to reduce risk | No | - |
| Mutual aid agreements | Yes | Fire Dept./ Highway Dept |
| Technical/Staffing Capability | | |
| Planners or engineers with knowledge of land development and land management practices | Yes | Town Planner |
| Engineers or professionals trained in building or infrastructure construction practices | No | - |
| Planners or engineers with an understanding of natural hazards | Yes | Town Planner |
| 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) | Yes | -- |
| Surveyor(s) | No | - |
| Emergency Manager | No | - |
| Grant writer(s) | No | - |
| Resilience Officer | No | - |
| Other | - | - |

9.4.4.3 Fiscal Capability

The table below summarizes financial resources available to the Town of Danby.

Table 9.4-6. Fiscal Capabilities

| Financial Resources | Accessible or Eligible to Use (Yes/No) |
|---|---|
| Community development Block Grants (CDBG, CDBG-DR) | Yes |
| Capital improvements project funding | Yes |
| Authority to levy taxes for specific purposes | Yes |
| User fees for water, sewer, gas or electric service | Yes |
| 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 |
| Incur debt through private activity bonds | No |
| Withhold public expenditures in hazard-prone areas | No |
| Other federal or state Funding Programs | Yes |



| Financial Resources | Accessible or Eligible to Use (Yes/No) |
|---|--|
| Open Space Acquisition funding programs | No |
| Other | No |

9.4.4.4 Education and Outreach Capability

The table below summarizes the education and outreach resources available to the Town of Danby.

Table 9.4-7. 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? | Yes |
| 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. | No |
| Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe. | No - except website |
| Warning systems for hazard events; if yes, briefly describe. | No |
| Natural disaster/safety programs in place for schools; if yes, briefly describe. | No |
| Other | |

9.4.4.5 Community Classifications

The table below summarizes classifications for community programs available to the Town of Danby.

Table 9.4-8. Community Classifications

| Program | Participating? (Yes/No) | Classification (if applicable) | Date Classified (if applicable) |
|---|-------------------------|--------------------------------|---------------------------------|
| Community Rating System (CRS) | No | - | - |
| Building Code Effectiveness Grading Schedule (BCEGS) | No | - | - |
| Public Protection (ISO Fire Protection Classes 1 to 10) | Yes | ISO rating is 5 | 2016 |
| NYSDEC Climate Smart Community | Yes | Participating | 2016 |
| Storm Ready Certification | No | - | - |
| Firewise Communities classification | No | - | - |
| Other | | - | - |

Note:

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



9.4.4.6 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 9.4-9. Adaptive Capacity

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

**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

9.4.4.7 National Flood Insurance Program

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

NFIP Floodplain Administrator (FPA)

Name/Title: Steve Cortright, Code Enforcement Officer
 Address: 1830 Danby Rd., Ithaca, NY 14850
 Phone Number: 607-277-0799
 Email: code@townofdanbyny.org

Table 9.4-10. 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? | A majority of flooding areas are due the storm runoff. There is very little creek flooding in the town. The last creek flooding was in West Danby the Tupper Rd Maple Ave creek affected 2 houses downstream on Station Rd NO |



| NFIP Topic | Comments |
|--|---|
| Do you maintain a list of property owners interested in flood mitigation? <ul style="list-style-type: none"> How many homeowners and/or business owners are interested in mitigation (elevation or acquisition)? | No None that I am aware of |
| Are any RiskMAP projects currently underway in your jurisdiction? <ul style="list-style-type: none"> If so, state what projects are underway. | No because we have no defined flood zone in the town |
| How do you make Substantial Damage determinations? <ul style="list-style-type: none"> How many were declared for recent flood events in your jurisdiction? | By inspection and evaluation 1 - 36 Station Rd |
| How many properties have been mitigated (elevation or acquisition) in your jurisdiction? <ul style="list-style-type: none"> If there are mitigation properties, how were the projects funded? | 1 – 10 Maple Ave when being rebuilt after a fire but I believe it was unintentional Fire insurance |
| Do your flood hazard maps adequately address the flood risk within your jurisdiction? <ul style="list-style-type: none"> If not, state why. | NO Because we have no flood zones indicated on the FIRM Map |
| 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? | No |
| Does your floodplain management staff need any assistance or training to support its floodplain management program? <ul style="list-style-type: none"> If so, what type of assistance/training is needed? | Yes |
| Provide an explanation of NFIP administration services you provide (e.g. permit review, GIS, education/outreach, inspections, engineering capability) | Permit application review and work with property owner to avoid issues down the road |
| How do you determine if proposed development on an existing structure would qualify as a substantial improvement? | Plan review and property history |
| What are the barriers to running an effective NFIP program in the community, if any? | Lack of Maps |
| Compliance History | |
| Does your jurisdiction have any outstanding NFIP compliance violations that need to be addressed? <ul style="list-style-type: none"> If so, state the violations. | Don't know |
| When was the most recent Community Assistance Visit (CAV) or Community Assistance Contact (CAC)? | Don't Know |
| 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? | unknown |
| Does your floodplain management program meet or exceed minimum requirements? <ul style="list-style-type: none"> If exceeds, in what ways? | unknown |
| 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? | Yes, planning Board |
| 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, |

9.4.4.8 National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the Town of Danby.

Table 9.4-11. NFIP Summary

| Municipality | # Policies | # Claims (Losses) | Total Loss Payments | # RL Properties | # SRL Properties |
|---------------|------------|-------------------|---------------------|-----------------|------------------|
| Town of Danby | 3 | 0 | 0 | 0 | 0 |

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

9.4.4.9 Additional Areas of Existing Integration

- The Town prohibits construction of structures within the 100-year floodplain.
- The Town continues to support retrofitting or relocation of structures located within hazard-prone areas to protect from future damages.
- The Town maintains compliance and good standing with the NFIP.
- The Town works to maintain high regulatory standards to manage flood risk in accordance with NYS freeboard requirements.
- The Town maintains mutual aid agreements with neighboring communities.
- The Town implements best farming and agriculture practices to minimize erosion and other environmental impacts from agriculture land use.



- The Town maintains well and infrastructure elevations to meet current code requirements
- The Town has a program to remove dangerous trees and promote planting healthy trees, and street tree programs as part of the Community Forest Management Plan
- The Town works along with County and regional agencies to conduct damage assessments, and with entities that support FEMA/NYSDHSES paperwork after disasters.
- The Town supports county efforts to assess facilities for earthquake vulnerabilities and with the development of an earthquake management plan.
- The Town continues to develop, enhance, and implement existing emergency plans.
- The Town supports all county-wide and municipal initiatives identified in the HMP.

9.4.4.10 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 Town has identified the following routes to be used in the event of evacuation of the Town.

- From Danby proper St. Rt. 96B
- From West Danby St. RT 34/96

However, evacuation routes are specific to hazard event and routes will vary according to the location of the event. The Town will identify evacuation routes according to procedures outlined in the ESF16 annex of the Tompkins County 2021 CEMP.

Sheltering

The Town has indicated the following as an emergency 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 9.4-12. Shelter Locations in the Municipality

| Shelter Name | Address | Capacity | Accommodates Pets? | ADA Compliant? | Backup Power? | Types of Medical Services Provided | Other Services Provided |
|-------------------------|--------------------------------------|----------|--|----------------|---------------|------------------------------------|-------------------------|
| West Danby Fire Station | 47 Sylvan Ln. Spencer Ny 14883 | 12 | That would depend on the Red Cross Shelter Manager | Yes | Yes | Basic EMS | Kitchen |



Temporary Housing

The Town has identified the following 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.

Table 9.4-13. Temporary 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 |
|---------------------------------|-----------------|--|----------------------------|----------------------|---|
| Old Danby School | 54 Gunderman Rd | Water, electric, sewer and gas | 19 Acres | Old school grounds | Agreement with the ICSD to use |
| Old Danby Highway Barn property | 15 Bald Hill | Water, sewer, electric. and gas | 1.26 acres | Vacant town property | - |
| Danby Community Park | Ithaca Rd | None | 92 acres | Wooded park | Agreement with the Park association |

Permanent Housing

While the Town 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 Town can utilize this analysis to identify potential locations.

Table 9.4-14. 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 |
|--|--------------|--|----------------------------|------|---|
| Please refer to the County-wide buildable land inventory in Volume 1, Section 4 (County Profile) of this plan. | | | | | |

Hazard Event History Specific to the Town of Danby

Tompkins County 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 County and its municipalities. Tompkins County's history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of



Town of Danby. Table 9.4-15 provides details regarding municipal-specific loss and damages the Town 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 9.4-15. Hazard Event History

| 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 Town was impacted, Town of Danby 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 Town was impacted, Town of Danby 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 Town was impacted, Town of Danby 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 Town was impacted, Town of Danby did not report any damages |
| October 31- November 1, 2019 | Severe Storms, Straight-Line Winds and Flooding (DR-4472) | Yes | No information available | Although the Town was impacted, Town of Danby did not report any damages |

Notes:

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



9.4.5 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 Town of Danby’s risk assessment results and data used to determine the hazard ranking.

9.4.5.1 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).

Based on analysis conducted by HAZUS, there are no critical facilities located within a hazard zone within the town of Danby.

Table 9.4-16. Potential Flood Losses to Critical Facilities

| Name | Type | Exposure | | Addressed by Proposed Action |
|------------------------|------|----------|------------|------------------------------|
| | | 1% Event | 0.2% Event | |
| No facility identified | | | | |

Source: 2020 GIS

9.4.5.2 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 Town of Danby 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 Town of Danby. The Town of Danby has reviewed



the Town 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 Town of Danby indicated the following:

- Flooding and severe storms are definitely some of the most significant hazards of concern.
- Given the rural and inland nature of the Town, droughts and HABs are not a significant concern for the Town.

Table 9.4-17. Hazard Ranking Input

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

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

**The Town of Danby changed the initial ranking of this hazard based on event history, municipal experience, and feedback from the Town of Danby.*

9.4.5.3 Identified Issues

The Town of Danby has identified the following vulnerabilities within their community:

- Culvert replacement is a major initiative within the Town.
- Severe storms are causing road erosion.

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

- West Danby along Route 34 are continuously flooding.
- East and West Miller Road are prone to erosion due to severe runoff and flooding.

9.4.6 Mitigation Strategy and Prioritization

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



9.4.6.1 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 9.4-18. 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 2020 HMP or Discontinue 2. If including action in the 2020 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why. |
|-----------|--------------|----------------------------|-------------------|---|--|--------------------------------------|---|--|
| | | | | | | Cost | | |
| DB1 | | Transportation Accident | Town of Danby | Continue working with NSYDOT to survey West Danby fire station site distance to determine if intersection requires physical changes or additional lighting when fire station is used for other purposes | No Progress | Cost | - | TBD |
| | | | | | | Level of Protection | - | |
| | | | | | | Damages Avoided; Evidence of Success | - | |
| DB2 | | Landslide, Utility Failure | Town of Danby | Mitigate risk related to stream pipeline crossings on Buttermilk Creek, including that at Comfort Road | No progress to report | Cost | - | Discontinued. |
| | | | | | | Level of Protection | - | |
| | | | | | | Damages Avoided; Evidence of Success | - | |



9.4.6.2 Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Town of Danby 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:

- Culvert project – upsizing on Gunman Road and Troy Road

9.4.6.3 Proposed Hazard Mitigation Initiatives for the Plan Update

The Town of Danby participated in a mitigation action workshop in 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: 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 9.4-19 summarizes the comprehensive range of specific mitigation initiatives the Town of Danby 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 9.4-20 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.4-19. 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-T DANBY-001 | Tree Maintenance Program | 3,5 | Severe Storm, Severe Winter Storm | Problem: Severe storm events and winter storms can cause downed trees and power lines within the town. | No | No | Medium | Town DPW | Medium | High | Municipal Public Works Budget, | Medium | SIP | NR |
| | | | | Solution: Introducing a maintenance program to monitor decaying at-risk trees and scheduled removal and cutting of branches will reduce tree debris during storms. | | | | | | | | | | |
| 2021-T DANBY-002 | Flash Flood Study | 1,4 | Flood | Problem: The Town experiences flash flood events and subsequent damages. This leads to road closures, damages, and emergency rescues. | No | No | Long | Town Board | Medium | High | HMA, HMGP, BRIC | High | SIP | SP |
| | | | | Solution: Conduct a study to determine the cause of flash flood events and identify problem areas. Once study is complete, the municipality will review the findings, determine the best solution(s), and implement projects. | | | | | | | | | | |
| 2021-T DANBY-003 | Cell Service Study | 1,2,5 | All Hazards | Problem: The Town has limited cell service and internet connection. | No | No | Long | Town, Cell Phone Service Companies | High | High | Municipal Budget as needed. | High | SIP | PR |
| | | | | Solution: Conduct an assessment of the regions poorly covered by cell service and internet | | | | | | | | | | |



Table 9.4-19. 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 |
|------------------|------------------------|-----------|-----------------------------------|---|----------------------------|------------|--------------------|-------------|-----------------|--------------------|---|----------|---------------------|--------------|
| | | | | connection and provide the necessary service/ procedures especially for those who are considered vulnerable populations. | | | | | | | | | | |
| 2021-T DANBY-004 | Mutual Aid Development | 1,2,4 | Severe Winter Storm, Severe Storm | <p>Problem: The Town of Danby has limited capacity to respond during extreme weather events due to the limited municipal emergency response capacity.</p> <p>Solution: As the Town of Danby is primarily reliant on the regional Bangs Ambulance Services and has a volunteer fire department, the town can work with the county to develop a potential hub for county/state emergency response, similar to the Town of Newfield that has a state police hub within the municipality.</p> | No | No | Medium | Town EMS | Medium | High | Municipal Budget as needed | High | SIP | ES |
| 2021-T DANBY-005 | Culvert Replacement | 1,3,5 | Flood | <p>Problem: In rural areas of the town, stormwater drainage systems are inadequate to handle the flow of water during flash floods. The town needs to identify and inventory these sites.</p> <p>Solution: Work with SWCD to identify each site and</p> | No | No | Long | Town DPW | High | High | NYSDEC CSC, NAACC, Municipal and County budget as needed | High | SIP | SP |



Table 9.4-19. 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 |
|------------------|--|-----------|---------------------------|---|----------------------------|------------|--------------------|-------------|-----------------|--------------------|---|----------|---------------------|--------------|
| | | | | determine best solution to retrofit or redevelop infrastructure. Use inventory to identify future projects. | | | | | | | | | | |
| 2021-T DANBY-006 | Emergency Route Intersection Clearance | All Goals | All Hazards | <p>Problem: The intersection of Sylvan Ln. and NYS Rt. 34/96, the is the access road to the West Danby fire Station and it has a terrible line of sight for vehicles leaving sylvan Ln. entering 34/96. There have been many close calls there with fire apparatus and people traveling on 34/96. Years ago flashing yellow caution lights were installed that are activated by pushing a button in the truck bay of the fire station when leaving, but these lights are ignored by motorists on 34/96 and often don't work.</p> <p>Solution: Funding for a study to look in to cutting back the earth banks which may require re-location of the municipal water lines. Funding needed to do the work.</p> | No | No | Long | Town | Medium | High | Assistance to Firefighters Grant Program, Town Budget | High | SIP | ES |
| 2021-T DANBY-007 | Emergency Route Development | All Goals | All Hazards | <p>Problem: The main route of emergency response between Danby and West Danby is approx. 50% dirt</p> | No | No | Long | Town | Medium | High | Assistance to Firefighters Grant | High | SIP | ES |



Table 9.4-19. 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 |
|----------------|----------------------------------|-----------|---------------------------|--|----------------------------|------------|--------------------|-------------|-----------------|---------------------|---------------------------|----------|---------------------|--------------|
| | | | | <p>road. The Town has one Fire District with 2 Stations, Danby and West Danby. Each department responds as automatic mutual aid to all fire and MVA incidents. The sections of Station Rd. and Bald Hill Rd. that are Town road are unpaved and at certain times of the year impassable to fire apparatus due to the adverse conditions of the dirt roads. Even when are in passable condition the dirt and grime get in to places that can't be cleaned and cause systems or controls on the apparatus to fail or not function properly.</p> <p>Solution: Funding for a study of corrective measures such as under drains and cross drainage, road-bed stabilization, surface treatments, road ditch and bank stabilization and funding to take corrective actions that may come out of any studies.</p> | | | | | | | Program, Town Budget | | | |
| | Town Hall Generator Installation | All goals | All Hazards | Problem: the town hall does not have adequate backup power which could lead to | Yes | No | 1 year | Town Hall | High | Continued operation | HMA and HMGP | High | SIP | SP |



Table 9.4-19. 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-T DANBY-008 | | | | <p>the discontinued operation of critical services.</p> <p>Solution: Install a 3-phase generator at Town Hall to provide adequate backup power for town facility and associated service operation.</p> | | | | | | for critical services. | | | | |
| 2021-T DANBY-009 | Jennings Pond Dam | 1,2 | Flood, Severe Storms | <p>Problem: Jennings Pond Dam is classified as a class C “high hazard” dam and poses a threat to the surrounding community.</p> <p>Solution: Solution: The Town of Danby will conduct outreach to the dam owner and operator about the condition of the dam and potential risks posed by a dam failure and support an inspection plan of the dam by an engineer in accordance with the existing EAP and NYSDEC Dam Safety guidelines. The Town will aid in the development of an updated EAP as needed. If updates have been completed on the dam, the Town will request an inspection by NYSDEC to reclassify the dam.</p> | Yes | No | Short, within 5 years | Town of Danby | Low | High | Municipal Budget | High | EAP | 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 9.4-20. 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-T DANBY-001 | Tree Maintenance Program | 1 | 1 | 1 | 1 | 0 | 0 | -1 | 1 | 0 | 0 | 0 | 0 | 1 | 1 | 6 | Medium |
| 2021-T DANBY-002 | Flash Flood Study | 1 | 1 | 1 | 1 | 1 | 1 | -1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 11 | High |
| 2021-T DANBY-003 | Cell Service Study | 1 | 1 | 1 | 1 | 1 | 1 | -1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 11 | High |
| 2021-T DANBY-004 | Mutual Aid Development | 1 | 1 | 1 | 1 | 1 | 1 | -1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 11 | High |
| 2021-T DANBY-005 | Culvert Replacement | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 13 | High |
| 2021-T DANBY-006 | Emergency Route Intersection Clearance | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 11 | High |
| 2021-T DANBY-007 | Emergency Route Development | 1 | 1 | 1 | 1 | 1 | 0 | 0 | 0 | 1 | 1 | 1 | 1 | 1 | 1 | 11 | High |
| 2021-T DANBY-008 | Town Hall Generator Installation | 1 | 1 | 1 | 1 | 1 | 1 | -1 | 1 | 1 | 1 | 1 | 1 | 1 | 1 | 12 | High |
| 2021-T DANBY-009 | Jennings Pond Dam | 1 | 1 | 1 | 1 | 1 | 1 | 0 | 1 | 1 | 0 | 1 | 1 | 1 | 1 | 12 | High |

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



9.4.7 Proposed Mitigation Action Types

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

Table 9.4-21. Analysis of Mitigation Actions by Hazard and Category

| Hazard | FEMA | | | | CRS | | | | | |
|---------------------|------|------------------------------|-----|-----|----------|----|----|-----|---------------|---------------|
| | LPR | SIP | NSP | EAP | PR | PP | PI | NR | SP | ES |
| Disease Outbreak | | 003; 006; 007; 008 | | | 003 | | | | 008 | 004; 006; 007 |
| Drought | | 003; 006; 007; 008 | | | 003 | | | | 008 | 004; 006; 007 |
| Extreme Temperature | | 003; 006; 007; 008 | | | 003 | | | | 008 | 004; 006; 007 |
| Flood | | 002; 003; 005; 006; 007; 008 | | 009 | 003; 009 | | | | 002; 005; 008 | 004; 006; 007 |
| Harmful Algal Bloom | | 003; 006; 007; 008 | | | 003 | | | | 008 | 004; 006; 007 |
| Invasive Species | | 003; 006; 007; 008 | | | 003 | | | | 008 | 004; 006; 007 |
| Severe Storm | | 001; 003; 004; 006; 007; 008 | | 009 | 003; 009 | | | 001 | 008 | 004; 006; 007 |
| Severe Winter Storm | | 001; 003; 004; 006; 007; 008 | | | 003 | | | 001 | 008 | 004; 006; 007 |
| Wildfire | | 003; 006; 007; 008 | | | 003 | | | | 008 | 004; 006; 007 |

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



9.4.8 Staff and Local Stakeholder Involvement in Annex Development

The Town of Danby 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 Town departments, including: Code Enforcement and Highway Superintendent. The Code Enforcement Officer represented the community on the Town of Danby 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.

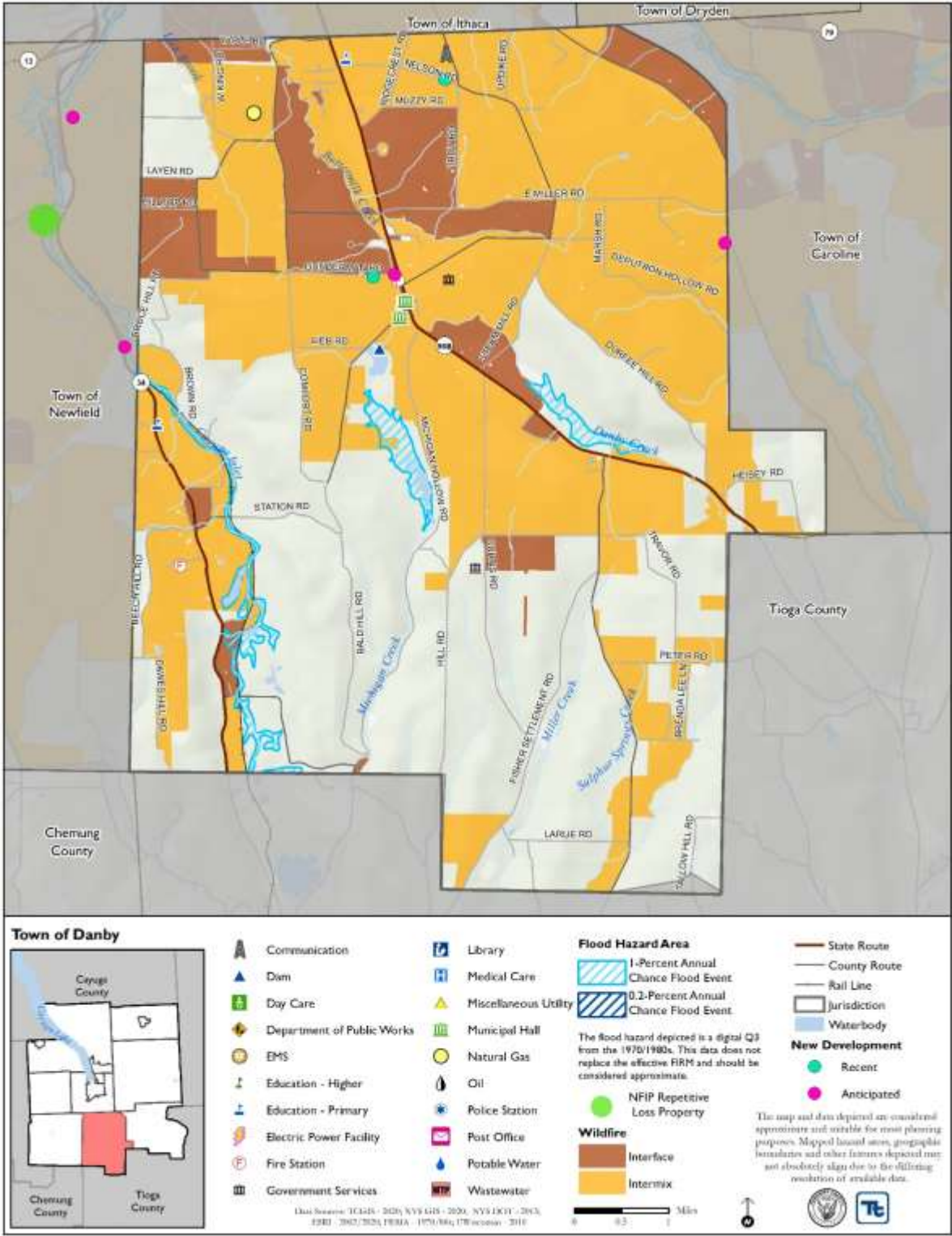
Additional documentation on the Town of Danby's planning process through Planning Partnership meetings is included in Section 3 (Planning Process) and Appendix C (Meetings).

9.4.9 Hazard Area Extent and Location

A hazard area extent and location map has been generated for the Town of Danby that illustrates the probable areas impacted within the Town of Danby. 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 Town of Danby has significant exposure. The map is provided on the next page.



Figure 9.4-1. Town of Danby Hazard Area Extent and Location Map



| | | | |
|---|---|---|---|
| Project Name: | Town Flood Study | | |
| Project Number: | 2021-T DANBY-002 | | |
| Risk / Vulnerability | | | |
| Hazard(s) of Concern: | Flooding | | |
| Description of the Problem: | The Town experiences flash flood events and subsequent damages. This leads to road closures, damages, and emergency rescues. | | |
| Action or Project Intended for Implementation | | | |
| Description of the Solution: | Conduct a study to determine the cause of flash flood events and identify problem areas. Once study is complete, the municipality will review the findings, determine the best solution(s), and implement projects. | | |
| 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: | 500 year flood | Estimated Benefits (losses avoided): | Understand root cause of flooding and solutions. |
| Useful Life: | 20 years | Goals Met: | All goals |
| Estimated Cost: | Medium | Mitigation Action Type: | SIP |
| Plan for Implementation | | | |
| Prioritization: | Medium | Desired Timeframe for Implementation: | Within 1 year |
| Estimated Time Required for Project Implementation: | 1 year | Potential Funding Sources: | HMA, HMGP, BRIC |
| Responsible Organization: | Town | Local Planning Mechanisms to be Used in Implementation if any: | Land Use Regs., Hazard Mitigation Plan |
| Three Alternatives Considered (including No Action) | | | |
| Alternatives: | Action | Estimated Cost | Evaluation |
| | No Action | \$0 | Current problem continues |
| | Work with County on developing a county wide flood study. | Medium | Less likely to have the opportunity to fully evaluate flood issues in town. |
| | Town Flood Study | Medium | Best solution |
| Progress Report (for plan maintenance) | | | |
| Date of Status Report: | | | |
| Report of Progress: | | | |
| Update Evaluation of the Problem and/or Solution: | | | |



| Action Worksheet | | |
|-----------------------------------|------------------------------------|--|
| Project Name: | Town Flood Study | |
| Project Number: | 2021-T DANBY-002 | |
| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
| Life Safety | 1 | The project protects life and property |
| Property Protection | 1 | The project protects life and property |
| Cost-Effectiveness | 1 | The project is most cost effective |
| Technical | 1 | The project is technically possible |
| Political | 1 | There is no political opposition to project |
| Legal | 1 | There are no legal complications |
| Fiscal | -1 | Need funding |
| Environmental | 0 | No adverse environmental impact |
| Social | 1 | This project has a positive social impact |
| Administrative | 1 | This is administratively supported |
| Multi-Hazard | 0 | This deals with multiple hazards |
| Timeline | 1 | This project is possible within this timeline |
| Agency Champion | 1 | Yes |
| Other Community Objectives | 0 | Yes |
| Total | 11 | |
| Priority (High/Med/Low) | High | |



| | | | |
|---|--|---|--|
| Project Name: | Town Hall Generator Installation | | |
| Project Number: | 2021-T DANBY-008 | | |
| Risk / Vulnerability | | | |
| Hazard(s) of Concern: | All | | |
| Description of the Problem: | The Town hall does not have adequate backup power which could lead to the discontinued operation of critical services. | | |
| Action or Project Intended for Implementation | | | |
| Description of the Solution: | Install a 3-phase generator at Town Hall to provide adequate backup power for town facility and associated service operation. Retrofit for flood protection as necessary | | |
| 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): | Town maintains continuity of service during the event. |
| Useful Life: | 20 years | Goals Met: | All goals |
| Estimated Cost: | High | Mitigation Action Type: | SIP |
| Plan for Implementation | | | |
| Prioritization: | Medium | Desired Timeframe for Implementation: | Within 1 year |
| Estimated Time Required for Project Implementation: | Short term | Potential Funding Sources: | HMA and HMGP |
| Responsible Organization: | Building maintenance committee | Local Planning Mechanisms to be Used in Implementation if any: | N/A |
| Three Alternatives Considered (including No Action) | | | |
| Alternatives: | Action | Estimated Cost | Evaluation |
| | No Action | \$0 | Current problem continues |
| | Purchase solar power | High | Weather dependent and high cost. |
| | Purchase generator | High | High cost but provides constant power |
| Progress Report (for plan maintenance) | | | |
| Date of Status Report: | | | |
| Report of Progress: | | | |
| Update Evaluation of the Problem and/or Solution: | | | |



| Action Worksheet | | |
|-----------------------------------|------------------------------------|--|
| Project Name: | Town Hall Generator Installation | |
| Project Number: | 2021-T DANBY-008 | |
| Criteria | Numeric Rank (-1, 0, 1) | Provide brief rationale for numeric rank when appropriate |
| Life Safety | 1 | The project protects life and property |
| Property Protection | 1 | The project protects life and property |
| Cost-Effectiveness | 1 | The project is most cost effective |
| Technical | 1 | The project is technically possible |
| Political | 1 | There is no political opposition to project |
| Legal | 1 | There are no legal complications |
| Fiscal | -1 | Need funding |
| Environmental | 0 | No adverse environmental impact |
| Social | 1 | This project has a positive social impact |
| Administrative | 1 | This is administratively supported |
| Multi-Hazard | 0 | This deals with multiple hazards |
| Timeline | 1 | This project is possible within this timeline |
| Agency Champion | 1 | Yes |
| Other Community Objectives | 0 | Yes |
| Total | 11 | |
| Priority (High/Med/Low) | High | |

