

# Jurisdictional Annex

## Village of DeRuyter

### 1. Contacts

The contact for the Village of DeRuyter regarding this plan are identified as follows:

- Travis Marshall – Mayor  
Address: 1663 Cortland St. DeRuyter, NY 13052  
Phone: 315-852-9625  
Email: [mayormarshall@deruyternygov.us](mailto:mayormarshall@deruyternygov.us)
- Ardene Tiffany – Village Clerk  
Address: 1663 Cortland St. DeRuyter, NY 13052  
Phone: 315-852-9625  
Email: [deruytervillage@frontiernet.net](mailto:deruytervillage@frontiernet.net)

Village Website: <https://www.deruyternygov.us/>

### 2. Municipal Profile

#### 2.1 Population

The 2020 Census estimated that 408 people live in the Village of DeRuyter. The Village's population has decreased by 26.9% since the 2010 Census (558) (U.S. Census Bureau, 2020). The median age in the Village is 32 years and 15.6% of the population is over the age of 65. The Village covers approximately 0.4 square miles. The Village has an equalized assessed value of approximately 268 million dollars spread across a variety of property classes.

#### 2.2 Location

The Village of DeRuyter is located on the western edge of the Town of DeRuyter. The Village of DeRuyter is shown in Figure 1 (Attachment A).

#### 2.3 Governing Body

The Village of DeRuyter is governed by a three-member Village Board, which includes the Mayor and two trustees.

## 2.4 Recent and Anticipated Future Development

Since the last County HMP (2017), several warehouses were constructed on Albany Street in 2017 and 2018. No new development has occurred in the Special Flood Hazard Area, and the reported developments have not changed the Village's vulnerability to natural hazards.

## 3. Capability Assessment

### 3.1 Planning and Regulatory Capability

The Village has considered the 2017 HMP when implementing their existing plans and regulations and progressing projects. The Village's HMP update will be incorporated into and referenced by future updates of the plans, policies, ordinances, programs, studies, and reports listed in Table 1, below.

**Table 1. Planning Mechanisms and Capabilities**

Planning Mechanism	Village of DeRuyter	Notes
<b>Administration</b>		
Maintenance Programs	Yes	
Mitigation Planning Committee	Yes	
Mutual Aid or Shared Services Agreements	Yes	
Planning Board	No	
Zoning Board	No	
<b>Development Approvals</b>		
Building Code	Yes	
Building Code Effectiveness Grading Schedule (BCEGS) Evaluation	No	
Fire Department ISO Rating		
Site Plan Review Requirements	No	
Special Use Permits	No	
<b>Funding Resources</b>		
Authority to Levy Taxes	Yes	
Capital Improvement Project Funds	Yes	
Federal Funding Programs (i.e., USDA, FEMA, others)	Yes	
General Obligation Bonds and/or Special Tax Bonds	Yes	
Impact Fees for New Development	No	
State Funding Programs (i.e., NYSEFC, NYSOGR, NYSDEC, others)	Yes	
Utility Fees (i.e., water, sewer, stormwater, gas, electric)	Yes	Municipal water
<b>Land Use Regulations</b>		
Density Controls	No	

**Table 1. Planning Mechanisms and Capabilities**

Planning Mechanism	Village of DeRuyter	Notes
Flood Insurance Rate Maps	Yes	
Floodplain Ordinance	Yes	
Hillside Development Regulations	No	
Open Space Preservation	No	
Stormwater Management Regulations	Yes	State regulations apply
Streambank Setback Regulations	No	
Subdivision Regulations	No	
Transfer of Development Rights	Yes	State and Federal Programs Available for Agriculture
Zoning Ordinance	No	
<b>Natural Resources</b>		
Forest/Vegetation Management	No	
Stream Corridor Management	No	
Stream Dumping Regulations	Yes	State regulations apply
Urban Forestry and Landscape Management	Yes	Tree maintenance budget
Watershed Management	No	
Wetland Regulations	Yes	State and Federal rules apply
<b>Plans</b>		
Capital Improvement Plan	No	
Comprehensive Emergency Management Plan	No	County has this plan in place
Comprehensive Plan	No	
Continuity of Operations Plan	No	County has this plan in place
Economic Development Plan	No	
Other Plans (specify)	Yes	Adopted Public Health Plan in response to COVID-19 pandemic (required by NYS)
<b>Programs/Organizations</b>		
Climate Smart Community	No	
Local Emergency Preparedness/Disaster Response Organizations	Yes	Fire Department
Local Environmental Protection Organizations	No	
National Weather Service StormReady Certification	No	County is certified
Outreach Programs	Yes	Education of Elected to NIMS Standards
Partnerships with private entities addressing mitigation or disaster response	No	
School Programs or Adult Educational Programs	Yes	Fire Safety Education
<b>Staff Positions</b>		
Civil Engineer	No	
Code Enforcement Officer	Yes	
Emergency Manager	Yes	

**Table 1. Planning Mechanisms and Capabilities**

Planning Mechanism	Village of DeRuyter	Notes
Floodplain Administrator	Yes	Code Enforcement Officer
Planner/GIS Coordinator	No	County assists
<b>Technical Abilities</b>		
Grant Writing	No	Contract out
Hazard Information Centers	No	
Hazard Warning Systems	Yes	

### **3.2 Emergency Communications, Routes, and Shelters**

The Village of DeRuyter utilizes the Village website, Village Facebook page, and the Fire Department's electronic message board for emergency communications. The Village is also covered by Madison County's emergency notification system. The major transportation route within the Village is State Route 13. The Village's emergency shelter locations are summarized in Table 2, below.

**Table 2. Emergency Shelters**

Facility	Address	Owner/ Occupant	Support medical needs?	ADA Compliant?	Pets accepted?	Notes
DeRuyter Central School	711 Railroad St, DeRuyter, NY 13052	DeRuyter Central School District	Yes	Yes	No	Backup power available
DeRuyter Town Hall	735 Utica Street, DeRuyter, NY 13052	Town of DeRuyter	Yes	Yes	No	Backup power available
DeRuyter Village Office	1663 Cortland St, DeRuyter, NY 13052	Village of DeRuyter	Yes	Yes	No	Backup power available

### **3.3 Temporary and Permanent Housing Locations**

The potential temporary and permanent housing locations listed below were identified for displaced residents in the Village of DeRuyter based on the 2017 NYS Hazard Mitigation Planning Standards. It is noted that formal agreements would need to be established in order to use privately owned properties.

- **Potential Temporary Housing Locations**
  - DeRuyter Fairgrounds - Mechanic Street
- **Potential Permanent Housing Locations**
  - Privately owned vacant land throughout the Town and Village of DeRuyter (coordination required with landowners for potential property purchase or subdivisions)

## 4. Hazard Vulnerabilities and Ranking

### 4.1 Risk Assessment

The Village reviewed multiple natural hazards to include in the HMP update. The hazard analysis criteria is summarized in Table 3. The Village's natural hazard analysis results are provided in Table 4.

**Table 3. Hazard Analysis Criteria**

Score	Extent	Onset	Impact	Frequency	Total Score	Overall Vulnerability
1	One location	Days of warning	Minor damages/injuries	Rare	4 to 5	Low
2	Several locations	Hours of warning	Moderate damages/injuries	Infrequent	6 to 8	Moderate
3	Large area	No warning	Severe damages/injuries	Regular	9 to 12	High

**Table 4. Natural Hazard Vulnerability and Risk Assessment**

Hazard Event	Extent	Onset	Impact (Damages and Injury)	Frequency	Total Score and Overall Vulnerability	Jurisdiction Rank
Earthquake	3	3	3	1	10 - High	1
Severe Thunderstorm/Wind/Hail	3	2	2.5	2	9.5 - High	2
Tornado	3	2.5	3	1	9.5 - High	3
Severe Winter Storm	3	1	3	2	9 - High	4
Ice Storm	3	1	3	2	9 - High	5
Wildfire	2	3	3	1	9 - High	6
Flood	2	2	3	1	8 - Moderate	7
Extreme Temperatures	3	1	2	2	8 - Moderate	8
Ice Jam	2	2	3	1	8 - Moderate	9
Drought	3	1	2	1	7 - Moderate	10

#### 4.2 Critical Facilities

Critical facilities include any facility that is critical for emergency response or that requires special emergency response in the event of hazardous incidents as identified by the Village of DeRuyter. Table 5, below, denotes the types and locations of critical facilities within the Village.

<b>Table 5. Critical Infrastructure in the Village of DeRuyter</b>		
<b>Facility Name</b>	<b>Address</b>	<b>Located in Floodplain</b>
Cell Tower	Railroad St	No
DeRuyter Central School	711 Railroad St	No
DeRuyter Fire Dept.	1663 Cortland St	No
DeRuyter Town Highway Garage	807 Utica St	No
DeRuyter Town Offices and Library	735 Utica St	No
DeRuyter Village DPW and Fairgrounds	1579 Mechanic St	100-year (small portion of fairgrounds)
Smith Ambulance	1713 Albany St	100-year

## 5. Priority Hazard Events

The following sections detail the priority hazard events identified by the jurisdiction. Additional information about each hazard including frequency, history, and severity within Madison County is included within Section 5.0 of the main body of the Hazard Mitigation Plan. Historical tornado and earthquake records are reported for the last ten years (2012-2022). All other hazard profiles report events that have occurred in the last five years (2017-2022).

The probability of climate-related hazard events is expected to increase in the future within the Village of DeRuyter. Climate change is expected to cause an increase in weather volatility, rising sea level, and greater temperature extremes.

Past occurrences of hazard events are indicated in their respective profiles below. Some hazards do not have historical records, but they were profiled for future mitigation planning consideration. The Village of DeRuyter chose not to profile landslide in their annex even though this hazard was profiled for the County. The Village does not have a history of nor do they have any significant concerns regarding landslides.

### 5.1 Earthquake

#### 5.1.1 *Description*

For a description of this hazard, please see Section 5.5 of the main body of the plan.

#### 5.1.2 *Hazard Vulnerability*

The Village's overall vulnerability for an earthquake is high, as documented in their hazard analysis in Section 4.1. According to Figure 5.8 of the main body plan, the Village of DeRuyter has a peak ground acceleration (PGA) Hazard rating of 8-10%g. An earthquake could impact any location within the Village, though historically, the Village has not experienced significant earthquake damages. Earthquakes that damage the Village's critical infrastructure or emergency evacuation routes (State Route 13) would result in the most significant impacts to the Village and its residents.

### 5.1.3 *Historical Hazard Occurrences and Damage Estimates*

According to the USGS Earthquake Catalog, there are no historical records of earthquakes occurring specifically in the Village of DeRuyter. An earthquake has the potential to cause hundreds of thousands of dollars in damages.

### 5.1.4 *Future Potential Impacts*

The Village's overall vulnerability for an earthquake remains high due to the large potential extent, fast onset, and high potential for injuries or damages. However, the Village is within an area of light seismic activity and is not likely to experience a damaging earthquake.

## 5.2 Severe Thunderstorm, Windstorm, or Hail

### 5.2.1 *Description*

For a description of these hazards, please see Section 5.1 of the main body of the plan.

### 5.2.2 *Hazard Vulnerability*

The Village's overall vulnerability for a severe thunderstorm, windstorm, or hail event is high, as documented in their hazard analysis in Section 4.1. The entire Village is susceptible to damages from a severe thunderstorm, windstorm, or hail event. Fallen trees from severe winds can damage overhead utility lines, resulting in power outages. In addition, these events are likely to result in damages to private and public infrastructure and property. Damages to the Village's critical infrastructure or primary evacuation routes (State Route 13) would be most impactful to Village residents.

### 5.2.3 *Historical Hazard Occurrences and Damage Estimates*

The NCDC reports three severe storm events that occurred in the Village of DeRuyter within the past five years. One of these records was a hail event, and two were thunderstorm winds. Estimated damages for the Village of DeRuyter ranged from \$0 to \$7,000 per event (Table 6). Actual damages were likely greater than those estimated by the NCDC.

Table 6. Severe Storm Event Records for the Village of DeRuyter				
Event Type	Date	Magnitude	Estimated Property Damage	Estimated Crop Damage
Thunderstorm Wind	5/18/2017	55 knots	\$7,000.00	-
Hail	6/21/2021	1 in	\$0.00	-
Thunderstorm Wind	7/22/2022	50 knots	\$5,000.00	-
	<b>Total</b>		<b>\$12,000.00</b>	<b>None reported</b>

#### 5.2.4 Future Potential Impacts

The Village's overall vulnerability for a severe thunderstorm, windstorm, or hail event remains high. The frequency and magnitude of severe storm events may increase due to climate change.

### 5.3 Tornado

#### 5.3.1 Description

For a description of this hazard, please see Section 5.8 of the main body of the plan.

#### 5.3.2 Hazard Vulnerability

The Village's overall vulnerability for a tornado is moderate, as documented in their hazard analysis in Section 4.1. The entire Village of DeRuyter is susceptible to damages from a tornado. Topography in the Village is generally flat to gently sloping, but the Village is surrounded by multiple hills in the Town of DeRuyter. Tornados often touch down along topographic high points in this region and affect more localized areas at one time, rather than longer swaths of damage experienced in flatter areas. Even if only a small area is affected, a tornado could result in severe damage to homes, over-turned automobiles and leveling of utility lines.

#### 5.3.3 Historical Hazard Occurrences and Damage Estimates

Three tornados have occurred in Madison County within the past ten years, but none of these records occurred in the Village of DeRuyter. There are no specific damage estimates related to tornados for the Village.

### 5.3.4 Future Potential Impacts

The Village's overall vulnerability for a tornado remains moderate. The entire Village of DeRuyter is susceptible to this hazard, but a tornado would likely only impact a small area. Regardless, damages can be devastating. The frequency and magnitude of tornado events may increase due to climate change.

## 5.4 Severe Winter Storm

### 5.4.1 Description

For a description of this hazard, please see Section 5.3 of the main body of the plan.

### 5.4.2 Hazard Vulnerability

The Village's overall vulnerability for a severe winter storm is high, as documented in their hazard analysis in Section 4.1. These storms typically affect more than one area within the County. The entire Village of DeRuyter is susceptible to damages from a severe winter storm event. The Village Department of Public Works (DPW) clears Village streets during heavy snow events. Roadway safety is a major concern during severe winter storm events. Damages to the Village's critical infrastructure or primary transportation route (State Route 13) would be most impactful to Village residents. Development in the Village is primarily concentrated along State Route 13 (Utica Street) and Albany Street.

### 5.4.3 Historical Hazard Occurrences and Damage Estimates

The Village of DeRuyter has been affected by a number of severe winter storm events reported for Madison County, which are described in Section 5.3 of the main body of the plan. The NCDC does not report any winter storm damage estimates specific to the Village of DeRuyter.

#### 5.4.4 Future Potential Impacts

The Village's overall vulnerability for a severe winter storm remains high. The severity and frequency of severe winter storms may increase due to climate change.

### 5.5 Ice Storm

#### 5.5.1 Description

For a description of this hazard, please see Section 5.7 of the main body of the plan.

#### 5.5.2 Hazard Vulnerability

The Village's overall vulnerability for an ice storm is high, as documented in their hazard analysis in Section 4.1. The entire Village of DeRuyter is susceptible to damages from an ice storm event. Damages to the Village's critical infrastructure or primary transportation route (State Route 13) would be most impactful to Village residents. Development in the Village is primarily concentrated along State Route 13 (Utica Street) and Albany Street. The Village of DeRuyter DPW completes tree maintenance within Village road right of ways to minimize potential damages to overhead utility lines during storm events. Private utility right of ways are generally maintained by the individual utility companies.

#### 5.5.3 Historical Hazard Occurrences and Damage Estimates

The NCDC reports one ice storm in Madison County within the past five years, which was reported for the entire County. The reported ice storm on February 10, 2021 and is described in Section 5.7 of the main body of the plan. No damage estimates related to ice storms are reported specific to the Village of DeRuyter.

#### 5.5.4 Future Potential Impacts

The Village's overall vulnerability for an ice storm remains high. The Village DPW and private utility companies will continue to maintain right of ways to

mitigate infrastructure damages from fallen trees and debris to the extent possible.

## **5.6 Wildfire**

### **5.6.1 *Description***

For a description of this hazard, please see Section 5.10 of the main body of the plan.

### **5.6.2 *Hazard Vulnerability***

The Village's overall vulnerability for a wildfire is high, as documented in their hazard analysis in Section 4.1. Undeveloped lands such as forest and open fields and brush lands within the Village are susceptible to wildfires. Based on a review of aerial mapping, the outskirts of the Village of DeRuyter consists of forested lands or open fields. The Village is located in a NYS Forest Fire District designated under 6 NYCRR Part 191.1.

### **5.6.3 *Historical Hazard Occurrences and Damage Estimates***

According to Figure 5.14 (Appendix A of the main body of the plan), the Village of DeRuyter experienced 0.4-0.8 wildfires per square mile from 2003 to 2017 according to reports from the NYSDEC. A wildfire has the potential to cause hundreds of thousands of dollars in damages.

### **5.6.4 *Future Potential Impacts***

The Village's overall vulnerability for a wildfire remains high. The undeveloped portions of the Village are most likely to be impacted in the future. Wildfires are likely to increase in frequency and magnitude in the future due to climate change.

## 5.7 Flood

### 5.7.1 *Description*

For a description of this hazard, please see Section 5.2 of the main body of the plan.

### 5.7.2 *Hazard Vulnerability*

The Village's overall vulnerability for a flood is moderate, as documented in their hazard analysis in Section 4.1. The Village is drained by Tioughnioga Creek. FEMA provides flood insurance rate maps for the Village of DeRuyter. The 100-year floodplain corresponds with areas that are at high risk for flooding (1% likely to flood any given year), and areas within a 500-year floodplain are at moderate flood risk (0.2% likely to flood in any given year). Figure 1 (Attachment A) shows FEMA mapped 100-year floodplains within the Village. Table 7 summarizes the amount of land within the Village of DeRuyter that is located within 100-year floodplain, as mapped by FEMA.

Table 7. Summary of Areas in Floodplains (Source: FEMA Q3 Digital Floodplain Data, 1996)		
Village of DeRuyter Total Area	Percent of Total Area	
	100-Year Floodplain	500-Year Floodplain
240 acres	5.3%	0%

The northeastern edge of the Village DPW and Fairgrounds property intersects the 100-year floodplain of Tioughnioga Creek. The floodplain area consists of an open field and a portion of the access drive around the perimeter of the site. Smith Ambulance is also located in the mapped 100-year floodplain.

### 5.7.3 *Historical Hazard Occurrences and Damage Estimates*

According to the NCDC, no flood records were noted to specifically impact the Village of DeRuyter in the past five years. The Village reports local records of past flooding along Tioughnioga Creek. The potential exists for State Route 13 to be inaccessible due to flooding. There is a history of flooding at the Village DPW and Fairgrounds property, but significant flood issues have not occurred here in the last five years. Smith Ambulance

experienced stream bank erosion along the ambulance bay driveway during a flash flood event in July 2013. No other flood damages have occurred at this facility. As described in Section 6.0 of this annex, NFIP loss claims data were requested from FEMA and a response is pending. According to the County's 2017 HMP, there are no repetitive loss properties in the Village.

#### **5.7.4 Future Potential Impacts**

The Village's overall vulnerability for a flood remains moderate. Properties along Tioughnioga Creek will remain most vulnerable to flooding in the future. The Village proposed one flood-related mitigation action, a streambank stabilization project on Utica Street. Once implemented, this project will reduce the risk of flood damages in this location. The frequency and magnitude of flood events may increase due to climate change.

### **5.8 Extreme Temperatures**

#### **5.8.1 Description**

For a description of this hazard, please see Section 5.6 of the main body of the plan.

#### **5.8.2 Hazard Vulnerability**

The Village's overall vulnerability for an extreme temperature event is moderate, as documented in their hazard analysis in Section 4.1. Extreme temperatures typically affect most or all of the County, and the entire Village of DeRuyter is susceptible to this hazard. Extreme temperature events tend to have greater impacts on vulnerable populations, including older adults (over 65 years), young children (under 5 years), people with health problems, or people who cannot afford to sufficiently heat or cool their homes. Approximately 13.9% of the population in the Village is under 5 years old, and 15.6% of the population is over 65 years old. Approximately 11.8% of the Village's population is below the poverty level. These populations are at a higher risk of being impacted by extreme temperature events.

### 5.8.3 *Historical Hazard Occurrences and Damage Estimates*

The NCDC reports three extreme temperatures in Madison County within the past five years. Each of these events was an extreme cold/wind chill reported Countywide. Details of these events are described in Section 5.5 of the main body of the plan. No damage estimates related to extreme temperatures are reported specific to the Village of DeRuyter.

### 5.8.4 *Future Potential Impacts*

The Village's overall vulnerability for an extreme temperature event remains moderate. Extreme temperatures are likely to increase in frequency and extremity in the future due to climate change.

## 5.9 Drought

### 5.9.1 *Description*

For a description of this hazard, please see Section 5.9 of the main body of the plan.

### 5.9.2 *Hazard Vulnerability*

The Village's overall vulnerability for drought is moderate, as documented in their hazard analysis in Section 4.1. Agricultural areas and properties served by private wells would experience the most significant impacts. The Village has a municipal water system, and therefore developed properties are less susceptible to a drought. Agricultural properties (located in the outskirts of the Village) would be most susceptible to a drought.

### 5.9.3 *Historical Hazard Occurrences and Damage Estimates*

The NCDC reports no specific drought events for the Village of DeRuyter. The Village also did not note any local records of drought events. The Village's water system is supplied by wells, but they have not experienced supply problems in the past.

#### **5.9.4 Future Potential Impacts**

The Village's overall vulnerability for drought remains moderate. Agricultural areas (generally in the outskirts of the Village) are most likely to be impacted by this event. Drought events are likely to increase in frequency and magnitude in the future due to climate change.

### **5.10 Ice Jam**

#### *5.10.1 Description*

For a description of this hazard, please see Section 5.11 of the main body of the plan.

#### *5.10.2 Hazard Vulnerability*

The Village's overall vulnerability for an ice jam is low, as documented in their hazard analysis in Section 4.1. Properties along the Tioughnioga Creek are most vulnerable to ice jams.

#### *5.10.3 Historical Hazard Occurrences and Damage Estimates*

The U.S. Army Corps of Engineers (USACE) Cold Regions Research and Engineering Laboratory (CRREL) reports no specific ice jam events for the Village of DeRuyter. The Village reports one ice jam along the Tioughnioga Creek in 1996, but no ice jams have impacted the Village in the last five years. No damage estimates are available for this event.

#### *5.10.4 Future Potential Impacts*

The Village's overall vulnerability for an ice jam remains low. Properties along Tioughnioga Creek remain vulnerable to ice jams, but the Village is not likely to experience significant damages from an ice jam given their history with this hazard. The frequency and magnitude of ice jam events may increase due to climate change.

## 6. National Flood Insurance Program

Long-term mitigation of potential flood impacts can be best achieved through comprehensive floodplain management regulations and enforcement at a local level. The National Flood Insurance Program (NFIP), regulated by FEMA, aims to reduce the impact of flooding on private and public structures by providing affordable insurance for property owners. The program encourages local jurisdictions to adopt and enforce floodplain management regulations in order to mitigate the potential effects of flooding on new and existing infrastructure (FEMA, 2015).

Communities that participate in the NFIP adopt floodplain ordinances. If an insured structure incurs damage costs that are over 50% of its market value, the owner must comply with the local floodplain regulations when repairing or rebuilding the structure. A structure could be rebuilt at a higher elevation, or it could be acquired and demolished by the municipality or relocated outside of the floodplain. Insured structures that are located within floodplains identified on FEMA's Flood Insurance Rate Maps (FIRMs) may receive payments for structure and content losses if impacted by a flood event.

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

- Creates safer environments by reducing loss of life and decreasing property damage;
- Allows individuals to minimize post-flood disaster disruptions and to recover quicker (homes built to NFIP standards generally experience less damage from flood events, and when damage does occur, the flood insurance program protects the homeowner's investment); and
- Lessens the financial impacts on individuals, communities, and other involved parties (FEMA, 2015).

The Village of DeRuyter currently participates in the NFIP (community ID 360396), and its FIRM(s) became effective on 8/24/1984. The Village joined the NFIP on this same date. NFIP loss claims data were requested from FEMA and a response is pending. According to the County's 2017 HMP, there are no repetitive loss properties in the Town. More current repetitive loss data from FEMA is pending. The Village will continue to comply with the NFIP by enforcing floodplain management requirements and regulating new development in Special Flood Hazard Areas, among other required duties.

## 7. Mitigation Strategy and Prioritization

### 7.1 Past, Completed, and Ongoing Initiatives

The Village proposed two mitigation actions in the 2017 Madison County HMP, and the status of each action is summarized in Table 8, below. None of the Village's 2017 mitigation actions were re-included for the 2022 update.

**Table 8. Status of 2017 Mitigation Actions**  
**Village of DeRuyter**

Project Name	Description	Hazard(s) Mitigated	Lead Agency	Status
Supplemental Culvert under Cemetery Street	Install a 3' by 60' plastic pipe at this location to enhance the flow capacity of the existing 5' by 2' concrete box culvert.	Flood	Village of DeRuyter	Completed by the Town of DeRuyter (at the northern end of the Village/Town boundary)
Streambank Stabilization Program	Develop a stream maintenance program to inspect and remove obstructions from stream channels, as needed.	Flood, Landslide	Village of DeRuyter	Ongoing- the Village is actively working with the Madison County SWCD to implement stream maintenance. This action is ongoing but it is adequately addressed through routine DPW and SWCD responsibilities. This action was not re-included as a mitigation action for the HMP update.

## 7.2 Proposed Mitigation Actions

The Village proposed two new mitigation actions to be included in the HMIP update. These actions are described in Table 9, below and on worksheets included in Attachment A.

**Table 9. Proposed Hazard Mitigation Actions**  
**Village of DeRuyter**

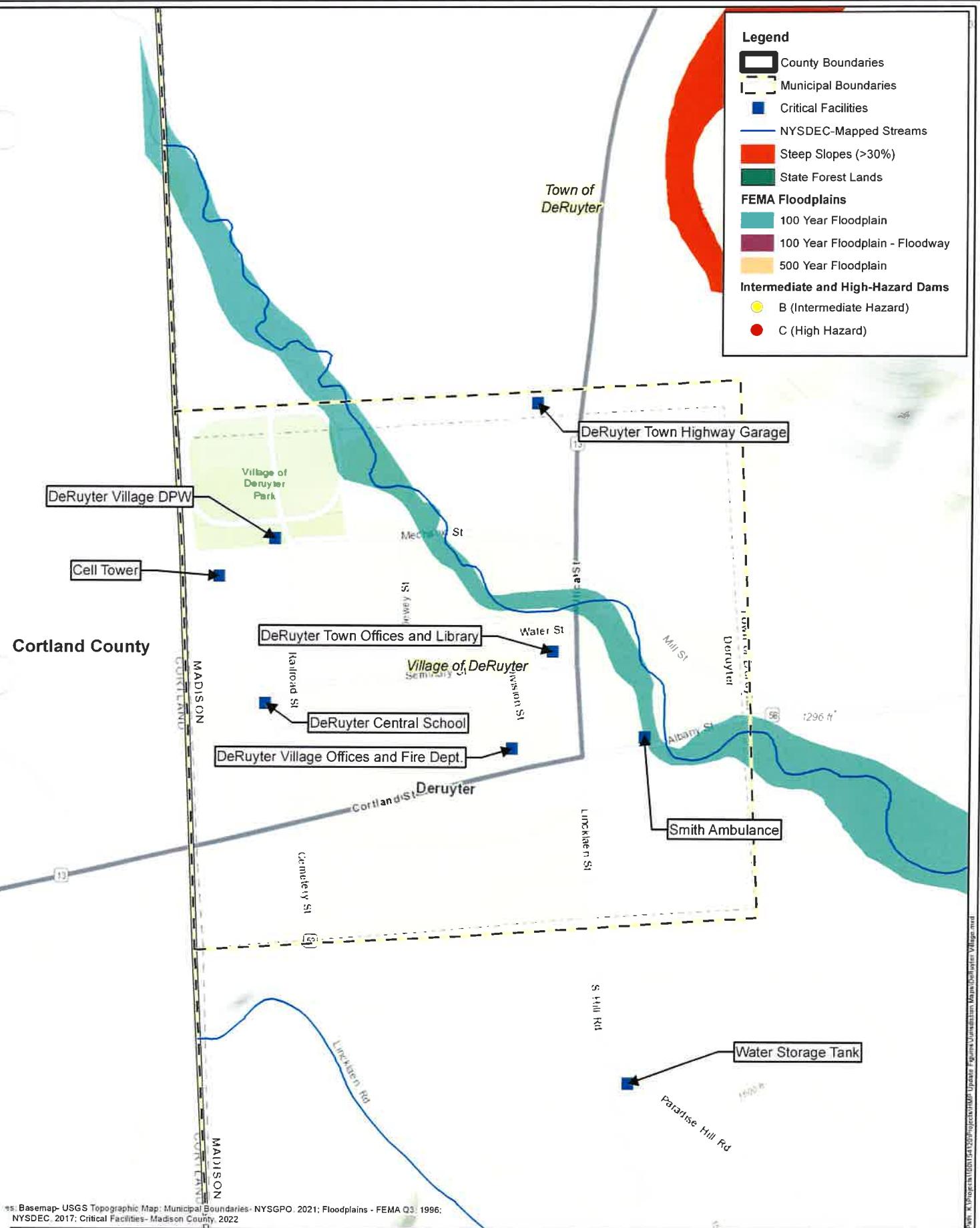
Action ID	Mitigation Action	Hazard(s) Mitigated	Implementing Agencies (Lead* & Support)	Planning Mechanism	Timeframe	New or Existing Development	Estimated Cost	Funding Source(s)	Priority
DeRuyter V1	Backup Power for Pump House	All	DeRuyter Village Board	None	1 year	Existing	\$50,000	NYSEFC - DWSRF, USDA RD, NYSOGR - CDBG, Village Budget	1
DeRuyter V2	Streambank Protection at 734 Utica Street	Flood	DeRuyter Village DPW*, Madison County SWCD, NYSDEC	None	1 year	New	\$20,000	SWCD, Village Budget	2

## 7.3 Cost-Benefit Analysis

Each of the Village's proposed mitigation actions were evaluated and prioritized using the STAPLEE cost-benefit analysis described in Section 7.2.3 of the main body of the plan. The Village's STAPLEE worksheet is provided in Attachment A. The STAPLEE analysis considers the following lenses of evaluation: social, technological, administrative, political, legal, economic, and environmental. It also considers the level of overall costs and benefits of the action.

**Attachment A**

**Figure 1, Mitigation Action Worksheets,  
and STAPLEE Worksheet**



## Madison County HMP Update Mitigation Action Worksheet

**Jurisdiction:** Village of DeRuyter

<b>Mitigation Action</b>	
<b>Project ID:</b>	DeRuyter V1
<b>Project Name:</b>	Backup Power for Pump House
<b>Risk/Vulnerability</b>	
<b>Hazard of Concern:</b>	All
<b>Description of the Problem:</b>	The Village's water system pump house lacks backup power. The pump house provides critical community services that could be interrupted during a power outage.
<b>Proposed Action</b>	
<b>Description of the Solution:</b>	Purchase and install a 3 phase generator at the pump house so operations will not be interrupted during a power outage. This will be implemented as part of a larger water system improvements project that the Village is undertaking.

**Is this project related to a Critical Facility?**  Yes  No

*(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater)*

<b>Level of Protection:</b>	High	<b>Estimated Benefits (losses avoided):</b>	Improved continuity of operations
<b>Useful Life:</b>	30 years		
<b>Estimated Cost:</b>	\$50,000		

### Plan for Implementation

<b>Priority (High, Medium, Low):</b>	High	<b>Responsible Organization:</b>	DeRuyter Village Board
<b>Desired Timeframe for Implementation:</b>	1 year	<b>Potential Funding Sources:</b>	NYSEFC - DWSRF, USDA RD - Water & Waste Disposal, NYSOCR- CDBG, Village Budget
<b>Estimated Time Required to Implement:</b>	1 year	<b>Local Planning Mechanisms to be used in Implementation, if any:</b>	None

### Three Alternatives Considered (Including No Action)

<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	No change from existing conditions
	Purchase a portable generator for critical infrastructure.	\$20,000	More flexible options for use but requires additional coordination for use and may not power entire facility/limitations
	Install standby generator at pump house	\$50,000	Best protection for pump house operations.

### Progress Report (for Plan Maintenance)

<b>Date of Status Report:</b>	
<b>Summary of Progress:</b>	
<b>Evaluation of the Problem and/or Solution:</b>	

## Madison County HMP Update Mitigation Action Worksheet

**Jurisdiction:** Village of Cazenovia

Mitigation Action	
Project ID:	Cazenovia V 2
Project Name:	Review and update the Village building code and land use regulations
Risk/Vulnerability	
Hazard of Concern:	Flood
Description of the Problem:	The Village solely has control over land use and development standards within their municipal limits, even though developments in neighboring municipalities can affect the Village. The Village's building code and land use regulations are in need of a review and update to ensure that all vulnerable locations in the Village are protected (protection of existing development or prevention of future development).
Proposed Action	
Description of the Solution:	During the Village's next comprehensive plan update, the building code and land use regulations will be reviewed to identify necessary updates and improvements that could be made to better protect Village properties in areas that are vulnerable to flooding and other natural hazards. The Village will update their regulations accordingly.

Is this project related to a Critical Facility?  Yes  No

*(If yes, this project must intend to protect to the 500-year flood event or the actual worst damage scenario, whichever is greater)*

Level of Protection:	Medium	Estimated Benefits (losses avoided):	Prevention of flood/other natural hazard related damages to future developments
Useful Life:	Long-term (100+ years)		
Estimated Cost:	\$20-30K		

Plan for Implementation			
Priority (High, Medium, Low):	High	Responsible Organization:	Cazenovia Village Board
Desired Timeframe for Implementation:	1 year (2022-2023)	Potential Funding Sources:	CACDA; Village Budget
Estimated Time Required to Implement:	1 year	Local Planning Mechanisms to be used in Implementation, if any:	Comprehensive Plan

Three Alternatives Considered (Including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
Alternatives:	No Action	\$0	No improvements from current conditions
	Coordinate directly with neighboring Towns when they review site plans	Low	May help inform neighboring communities of Village's concerns, but Village does not have control over decisions.
	Review and update Village building code and land use regulations	\$20-30K	Under Village's jurisdiction, long-term solution to protecting properties.

Progress Report (for Plan Maintenance)	
Date of Status Report:	
Summary of Progress:	
Evaluation of the Problem and/or Solution:	