



## 9.5 Town of Columbus

This section presents the jurisdictional annex for the Town of Columbus.

### 9.5.1 Hazard Mitigation Plan Point of Contact

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

Primary Point of Contact	Alternate Point of Contact
Thomas Grace, Town Supervisor 4340 State Highway 80, Sherburne, NY 13460 Phone: 607-847-6876 E-mail: graceforcolumbus@frontier.com	Kevin Cross, Highway Superintendent 4340 State Highway 80, Sherburne, NY 13460 Phone: 607-847-8593 E-mail:

### 9.5.2 Municipal Profile

This section provides a summary of the community.

#### Population

According to the U.S. Census, the 2010 population for the Town was 975.

#### Location

The Town of Columbus is situated in the northeast corner of Chenango County. It is approximately 35 miles south of Utica and 35 miles west from Cooperstown, NY.

#### Brief History

Columbus was established 1805. The first community in the United States to be so named. Most of the town is in agricultural use. Dairy farming is the main industry. Other industries are Chobani, Golden Artist’s Paint, Columbus Wood Working, and Edmunds Lumber Company.

#### Governing Body Format

The Town of Columbus is governed by an elected five member Town Board composed of a Town Supervisor, who also represents the town at the County Board of Supervisors, and four (4) Council members. This governing body will assume responsibility for adoption and implementation of this plan.

#### Growth/Development Trends

The following table summarizes major residential/commercial development and major infrastructure development that are identified for the next five (5) years in the municipality. Refer to the map in section 9.5.8 of this annex which illustrates the hazard areas along with the location of potential new development.

Table 9.5-1. Growth and Development

Property Name	Type (Residential or Commercial)	Number of Structures	Parcel ID(s)	Known Hazard Zone*	Description / Status
None identified at this time.					

\* Only location-specific hazard zones or vulnerabilities identified.





### 9.5.3 Natural Hazard Event History Specific to the Municipality

Chenango County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5.0 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. The table below presents a summary of natural events that have occurred to indicate the range and impact of natural hazard events in the community. Information regarding specific damages is included if available based on reference material or local sources.

**Table 9.5-2. Hazard Event History**

Dates of Event	Event Type	FEMA Declaration # (If Applicable)	County Designated?	Summary of Damages/Losses
June 26 - July 4, 2013	Severe Storms and Flooding	DR-4129	Yes - PA	June 27, 2013: Fusch Road closed due to major wash-out conditions. Road surface and shoulder damage on: Walt Phillips Rd., Sheridan Hill Rd., Holdridge Rd., Casey Rd., Barnard Rd., John Lawrence Rd., Mordas Rd., Bingham Rd., Fusch Rd. and three (3) sections on Winton Rd. 36" Culvert pipe on Casey Cheese Factory Rd. failed and replaced. Fire Department Dry Hydrant on Walt Phillips Rd. destroyed by flooding.
April 26 – May 8, 2011	Severe Storms, Flooding, Tornado and Straight Line Winds	DR-1993	Yes - PA	April 26, 2011: Walt Phillips Road, Fusch Road, and Winton Road closed for approximately 12 hours. Road shoulder damage: Walt Phillips Rd., Casey Rd., John Lawrence Rd. and Winton Rd. Road surface damage: Walt Phillips Rd., Fusch Rd., Barnard Rd., Mordas Rd., John Lawrence Rd., Bingham Rd. and Winton Rd. 48" Culvert pipe plugged by trees on Barnard Rd., requiring replacement.

Notes:

- EM Emergency Declaration (FEMA)
- FEMA Federal Emergency Management Agency
- DR Major Disaster Declaration (FEMA)
- IA Individual Assistance
- N/A Not applicable
- PA Public Assistance

### 9.5.4 Hazard Vulnerabilities and Ranking

The hazard profiles in Section 5.0 of this plan have detailed information regarding each plan participant’s vulnerability to the identified hazards. The following summarizes the hazard vulnerabilities and their ranking in the Town of Columbus. For additional vulnerability information relevant to this jurisdiction, refer to Section 5.0.

#### Hazard Risk/Vulnerability Risk Ranking

The table below summarizes the hazard risk/vulnerability rankings of potential hazards for Town of Columbus.

**Table 9.5-3. Hazard Risk/Vulnerability Risk Ranking**

Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard <sup>a</sup>	Probability of Occurrence <sup>c</sup>	Risk Ranking Score (Probability x Impact)	Hazard Ranking <sup>b</sup>
Drought	Damage estimate not available	Occasional	14	Medium
Extreme Temperature	Damage estimate not available	Frequent	39	High





Hazard type	Estimate of Potential Dollar Losses to Structures Vulnerable to the Hazard <sup>a</sup>	Probability of Occurrence <sup>c</sup>	Risk Ranking Score (Probability x Impact)	Hazard Ranking <sup>b</sup>
Flood	1% Annual Chance: \$632,000	Frequent	18	Medium
Severe Storm	100-Year MRP: \$0 500-year MRP: \$13,848 Annualized: \$153	Frequent	48	High
Winter Storm	1% GBS: \$0 5% GBS: \$0	Frequent	48	High
Wildfire	Estimated Value in the WUI: \$28,748,000	Occasional	28	Medium
Infestation	Damage estimate not available	Frequent	39	Low
Natural Gas	Damage estimate not available	Frequent	21	Low

- a. Building damage ratio estimates based on FEMA 386-2 (August 2001)
  - b. The valuation of general building stock and loss estimates was based on the custom inventory developed for Chenango County and probabilistic modeling results and exposure analysis as discussed in Section 5.
  - c. Frequent = Hazard event is likely to occur within 25 years.  
Occasional = Hazard event is likely to occur within 100 years  
Rare = Hazard event is not likely to occur within 100 years
  - d. The estimated potential losses for Severe Storm are from the HAZUS-MH probabilistic hurricane wind model results. See footnote c.
- GBS = General building stock  
MRP = Mean return period  
RCV = Replacement cost value

### National Flood Insurance Program (NFIP) Summary

The following table summarizes the NFIP statistics for the municipality.

Table 9.5-4. NFIP Summary

Municipality	# Policies (1)	# Claims (Losses) (1)	Total Loss Payments (2)	# Rep. Loss Prop. (1)	# Severe Rep. Loss Prop. (1)	# Policies in the 1% Flood Boundary (3)
Town of Columbus	0	3	\$17,048.60	0	0	0

- Source: FEMA Region 2, 2014
- (1) Policies, claims, repetitive loss and severe repetitive loss statistics provided by FEMA Region 2, and are current as of April 30, 2014. Please note the total number of repetitive loss properties includes the severe repetitive loss properties. The number of claims represents claims closed by 4/30/2014.
  - (2) Total building and content losses from the claims file provided by FEMA Region 2.
  - (3) The policies inside and outside of the flood zones is based on the latitude and longitude provided by FEMA Region 2 in the policy file.
- Notes: FEMA noted that where there is more than one entry for a property, there may be more than one policy in force or more than one GIS possibility.  
A zero percentage denotes less than 1/100th percentage and not zero damages or vulnerability as may be the case.

### Critical Facilities

The municipality does not have any critical facilities located in the 1% annual chance flood area.

### Other Vulnerabilities Identified by Municipality

In addition to those identified above, the municipality has identified the following vulnerabilities:

- Numerous roads and culverts have been damaged compromising the highway infrastructure.
- Creek banks have eroded resulting in loss of property from flooding and high water.



### 9.5.5 Capability Assessment

This section identifies the following capabilities of the local jurisdiction:

- Planning and regulatory capability
- Administrative and technical capability
- Fiscal capability
- Community classification
- National Flood Insurance Program
- Integration of Mitigation Planning into Existing and Future Planning Mechanisms

#### Planning and Regulatory Capability

The table below summarizes the regulatory tools that are available to the municipality.

**Table 9.5-5. Planning and Regulatory Tools**

Tool / Program (code, ordinance, plan)	Do you have this? (Y/N)	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, date of adoption, name of plan, explanation of authority, etc.)
Building Code	Y	Local, State	Handled by County	NYS-International Fire & Building Codes
Zoning Ordinance	N			
Subdivision Ordinance	Y	Local		Adopted 1996, amended 2001
NFIP Flood Damage Protection Ordinance	Y	Federal, State, Local	Managed through MOU with County	Adopted April 1, 1989 Amended November 1, 2010
NFIP - Freeboard	Y	Federal, State, Local	Managed through MOU with County	State mandated BFE+2 for single and two-family residential construction, BFE+1 for all other construction types.
NFIP - Cumulative Substantial Damages	N			
Special Purpose Ordinances	Y	Local		Adopted 2012- Road Prevention Law
Growth Management	Y	Local		
Floodplain Management / Basin Plan	N	State		NYSDEC permit and Federal Agencies
Stormwater Management Plan/Ordinance	Y	Local, State	NYSDEC permits required for any major construction projects	Subdivision Regulations
Comprehensive Plan / Master Plan	Y	Local		Adopted 1996
Capital Improvements Plan	Y	Local		
Site Plan Review Requirements	Y	Local		
Habitat Conservation Plan	N			
Economic Development Plan	N			
Emergency Response Plan	Y	Local, State	/Chenango County EMS	State Mandated
Post Disaster Recovery Plan	Y	County	Chenango County EMS	



**Table 9.5-5. Planning and Regulatory Tools**

Tool / Program (code, ordinance, plan)	Do you have this? (Y/N)	Authority (local, county, state, federal)	Dept. /Agency Responsible	Code Citation and Comments (Code Chapter, date of adoption, name of plan, explanation of authority, etc.)
Post Disaster Recovery Ordinance	N			
Real Estate Disclosure req.	Y	State		NYS Req.
Other (e.g. steep slope ordinance, local waterfront revitalization plan)	Y	Local	Town Government	Sanitary Code – adopted 1993 Refuse Disposal – adopted 1989 Right to Farm – adopted 1990 Junkyard – adopted 1996 Telecommunications – adopted 2009 Road Use Law – adopted 2012 Wind Facilities Law

- (1) Chenango County Planning Commission has review authority on certain actions. If they disapprove an action, local Zoning Board can approve with a greater majority and present findings.
- (2) NYS Subdivision laws provide a general framework, but allow room for local ordinances and interpretation.

### Administrative and Technical Capability

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

**Table 9.5-6. Administrative and Technical Capabilities**

Staff/ Personnel Resources	Available (Y or N)	Department/ Agency/Position
Planner(s) or Engineer(s) with knowledge of land development and land management practices	Y	County Planning & Development County Highway Engineer
Engineer(s) or Professional(s) trained in construction practices related to buildings and/or infrastructure	Y	County Highway Engineer for highway, drainage support
Planners or engineers with an understanding of natural hazards	Y	County Planning & Development County Highway Engineer
NFIP Floodplain Administrator	Y	MOU with Chenango County NFIP Floodplain Administrator, Updated MOU
Surveyor(s)	Y	County Highway Department, if available manpower
Personnel skilled or trained in “GIS” applications	Y	County Planning & Development
Scientist familiar with natural hazards in the County.	Y	Chenango County Soil and Water Department
Emergency Manager	Y	Chenango County Emergency Management Office in conjunction with New Berlin, Sherburne and W. Edmeston Fire Departments
Grant Writer(s)	Y	County Planning & Development; Cornell Co-Operative Extension
Staff with expertise or training in benefit/cost analysis	Y	Contract if necessary



### Fiscal Capability

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

Table 9.5-7. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No/Don't Know)
Community Development Block Grants (CDBG)	Yes available to residents in past
Capital Improvements Project Funding	Yes
Authority to Levy Taxes for specific purposes	Yes
User fees for water, sewer, gas or electric service	No
Impact Fees for homebuyers or developers of new development/homes	Yes. Free for subdivision review and road prevention requirements.
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	No
Withhold public expenditures in hazard-prone areas	No
Federal and State grant programs (e.g. FEMA, NYS DHSES, NYSDEC)	Yes
Other	

### Community Classifications

The table below summarizes classifications for community program available to the Town of Columbus.

Table 9.5-8. Community Classifications

Program	Classification	Date Classified
Community Rating System (CRS)	NP	N/A
Building Code Effectiveness Grading Schedule (BCEGS)	TBD	TBD
Public Protection	TBD	TBD
Storm Ready	NP	N/A
Firewise	NP	N/A

N/A = Not applicable. NP = Not participating. - = Unavailable. TBD = To be determined.

The classifications listed above relate to the community’s ability to provide effective services to lessen its vulnerability to the hazards identified. These classifications can be viewed as a gauge of the community’s capabilities in all phases of emergency management (preparedness, response, recovery and mitigation) and are used as an underwriting parameter for determining the costs of various forms of insurance. The CRS class applies to flood insurance while the BCEGS and Public Protection classifications apply to standard property insurance. CRS classifications range on a scale of 1 to 10 with class 1 being the best possible classification, and class 10 representing no classification benefit. Firewise classifications include a higher classification when the subject property is located beyond 1000 feet of a creditable fire hydrant and is within 5 road miles of a recognized Fire Station.

Criteria for classification credits are outlined in the following documents:

- The Community Rating System Coordinators Manual
- The Building Code Effectiveness Grading Schedule





- The ISO Mitigation online ISO’s Public Protection website at <http://www.isomitigation.com/ppc/0000/ppc0001.html>
- The National Weather Service Storm Ready website at <http://www.weather.gov/stormready/howto.htm>
- The National Firewise Communities website at <http://firewise.org/>

### National Flood Insurance Program

Under a Memorandum of Agreement with the County, the Chenango County the Code Enforcement Official, Steve Fox, serves as the floodplain administrator for the Town. County-wide floodplain management capabilities can be found in the County annex, Section 9.1.

### Integration of Hazard Mitigation into Existing and Future Planning Mechanisms

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, each community was surveyed to obtain a better understanding of their community’s progress in plan integration. A summary is provided below. In addition, the community identified specific integration activities that will be incorporated into municipal procedures.

### Regulatory and Enforcement (Ordinances)

The Town is considering participating in incentive-based programs such as CRS.

### Operational and Administration

The Town continues to increase culvert sizes, clean road side ditches, and open water discharge areas where possible. Additionally, the Town has re-routed Shawler Brook to minimize flooding along Hemlock Road and improved drainage at the intersection of County Route 25 and NYS Route 80.

## 9.5.6 Mitigation Strategy and Prioritization

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

### Past Mitigation Initiative Status

The following table indicates progress on the community’s mitigation strategy identified in the 2008 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 9.5-9. Past Mitigation Initiative Status

Description	Status	Review Comments
TOC-1: Re-route Shawler Brook to minimize flooding along Hemlock Road.	Completed	The Town installed a large box culvert to increase water flow capacity. This mitigation initiative will not be carried over to current mitigation strategy.
TOC-2: Improve drainage at intersection County Route 25 and NYS Route 80.	Completed	The County Highway installed two (2) culvert pipes to increase water flow capacity. This mitigation initiative will not be carried over to current mitigation strategy.
TOC-3: Continued improvement of drainage	Continuous/Ongoing	The Town continues to increase culvert sizes,





Description	Status	Review Comments
and maintenance along Town roadways.		clean road side ditches, and open water discharge areas where possible. This initiative will be carried over to current mitigation strategy.
TOC-4: Consider participation in incentive-based programs such as CRS.	No progress, the Village has limited flood exposure	The Village has included an initiative to support county-led initiatives.
TOC-5: Support County-wide initiatives identified in Section 9.1, Volume II of this Plan.	Continuous/Ongoing	The Town Highway department currently works with the County by plowing sections of County roads, in addition to providing sand storage space and use of the Town loader. A modified version of this initiative is being carried forward, identifying local participation in specific county-led mitigation programs and initiatives.

**Completed Mitigation Initiatives not Identified in the Previous Mitigation Strategy**

The following mitigation initiatives have been completed in the Town but were not included in the 2008 HMP:

- The Town of Columbus constructed a water break wall of large stackable rocks, creek gravel and topsoil for slope protection behind the Town Office/Highway garage complex. The slope was seeded and willow trees planted to prevent erosion of the creek bank. This purpose of this project was to prevent further loss of property due to the fast flowing stream during flood conditions.
- Reinforce area around dry hydrant by placing heavy rock around the base to stabilize the pad where the fire trucks park. The rock pad was covered with gravel and geotextile fabric. A trench was dug at the entrance of the dry hydrant pad, filled with heavy rock to hold the geotextile in place, in the event of high water. Geotextile fabric was covered with crusher run to enforce the new parking area.
- Installation of a stabilizing wall on Mordas Road for slope protection.

**Proposed Hazard Mitigation Initiatives for the Plan Update**

The Town of Columbus identified mitigation initiatives they would like to pursue in the future. 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. Table 9.5-10 identifies the municipality’s updated local mitigation strategy.

As discussed in Section 6, 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 actions as ‘High’, ‘Medium’, or ‘Low.’ The table below summarizes the evaluation of each mitigation initiative, listed by Action Number.

Table 9.5-11 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.





**Table 9.5-10. Proposed Hazard Mitigation Initiatives**

Initiative	Mitigation Initiative	Applies to New and/or Existing Structures*	Hazard(s) Mitigated	Objectives Met	Lead and Support Agencies	Estimated Benefits	Estimated Cost	Sources of Funding	Timeline	Priority	Mitigation Category
TCL-1 (Former TOC-3)	Continued improvement of drainage and maintenance along Town roadways. The Town has a general annual road maintenance program for the increasing of culvert sizes, cleaning of roadside ditches, and open water discharge areas where possible.										
	See above	Existing	Flood, Severe storms	1, 7	Town of Columbus, Town Highway Department		Medium	Local funding	On-going	Medium (Tier II)	SIP
TCL-2 (Former TOC-4, -5)	Support and participate in Federal, State and County-led programs and initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1), specifically: <ul style="list-style-type: none"> <li>Attend regional workshops, trainings and continuing education as made available by the County with FEMA, ISO and NYS DHSES support, and as appropriate for the community, anticipated to included: NFIP for Insurance Agents, Lending Institutions and Realtors; Floodplain Management and the Certified Floodplain Managers (CFM) certification.</li> <li>Public education and awareness program for floodplain residents.</li> <li>Updates to NFIP floodplain mapping.</li> <li>Promotion of "Firewise" programs in the County.</li> <li>Establishment of an interagency program involving Public Health/DSS/Area Agency on Aging to identify vulnerable populations (elderly, homebound, homeless), and the development/enhancement of plans, programs and facilities to meet the specific needs of these populations.</li> </ul>										
	See above	New and Existing	All Hazards	All Objectives	Chenango County, as supported by relevant local department leads,	High (improved mitigation and risk-reduction, and emergency management capabilities)	Low-Medium (locally)	Local (staff resources)	Short	High (Tier I)	LPR, EAP

**Notes:**

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

\*Does this mitigation initiative reduce the effects of hazards on new and/or existing buildings and/or infrastructure? Not applicable (N/A) is inserted if this does not apply.

Acronyms and Abbreviations:

CAV Community Assistance Visit  
 CRS Community Rating System  
 DPW Department of Public Works  
 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  
 RFC Repetitive Flood Claims Grant Program (discontinued in 2015)  
 SRL Severe Repetitive Loss Grant Program (discontinued in 2015)

Timeline:

Short 1 to 5 years  
 Long Term 5 years or greater  
 OG On-going program  
 DOF Depending on funding

Costs:

Where actual project costs have been reasonably estimated:

Low < \$10,000  
 Medium \$10,000 to \$100,000

Benefits:

Where possible, an estimate of project benefits (per FEMA's benefit calculation methodology) has been evaluated against the project costs, and is presented as:

Low= < \$10,000





Costs:

High > \$100,000

Where actual project costs cannot reasonably be established at this time:

Low Possible to fund under existing budget. Project is part of, or can be part of an existing on-going program.

Medium Could budget for under existing work plan, but would require a reapportionment of the budget or a budget amendment, or the cost of the project would have to be spread over multiple years.

High Would require an increase in revenue via an alternative source (i.e., bonds, grants, fee increases) to implement. Existing funding levels are not adequate to cover the costs of the proposed project.

Benefits:

Medium \$10,000 to \$100,000

High > \$100,000

Where numerical project benefits cannot reasonably be established at this time:

Low Long-term benefits of the project are difficult to quantify in the short term.

Medium Project will have a long-term impact on the reduction of risk exposure to life and property, or project will provide an immediate reduction in the risk exposure to property.

High Project will have an immediate impact on the reduction of risk exposure to life and property.

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



**Table 9.5-11. Summary of Prioritization of Actions**

Mitigation Action/Project Number	Mitigation Action/Initiative	Life Safety	Property Protection	Cost-Effectiveness	Technical	Political	Legal	Fiscal	Environmental	Social	Administrative	Multi-Hazard	Timeline	Agency Champion	Other Community Objectives	Total	High / Medium / Low
TCL-1	Continued improvement of drainage and maintenance along Town roadways.	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	Medium
TCL-2	Support and participate in Federal, State and County-led programs and initiatives intended to build local and regional mitigation and risk-reduction capabilities (see Section 9.1).	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	High

*Note: Refer to Section 6 which contains the guidance on conducting the prioritization of mitigation actions.*



### **9.5.7 Future Needs To Better Understand Risk/Vulnerability**

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None at this time.

### **9.5.8 Hazard Area Extent and Location**

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Hazard area extent and location maps have been generated for the Town of Columbus that illustrate the probable areas impacted within the municipality. These maps are based on the best available data at the time of the preparation of this plan, and are considered to be adequate for planning purposes. Maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Town of Columbus has significant exposure. Figure 9.5-1 illustrates the hazard area extent and location for the Town.

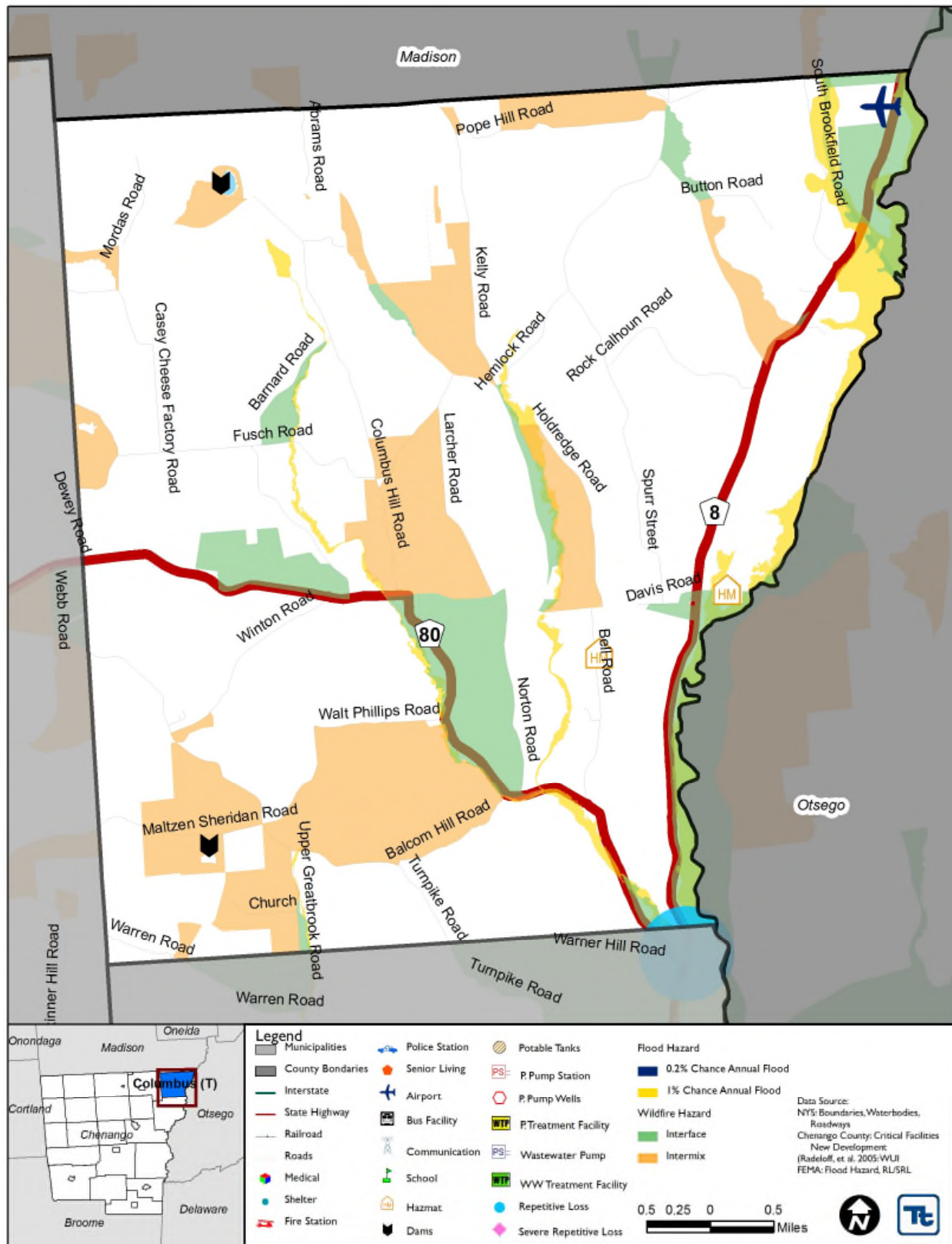
### **9.5.9 Additional Comments**

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None identified at this time.



Figure 9.5-1. Town of Columbus Hazard Area Extent and Location Map





**Name of Jurisdiction:** Town of Columbus  
**Number:** TCL-1  
**Mitigation Action/Initiative:** Improve Drainage and Maintenance Along Town Roadways

Assessing the Risk	
<b>Hazard(s) addressed:</b>	Flood, Severe Storms
<b>Specific problem being mitigated:</b>	Decrease or prevent flooding of town roadways during heavy rain and flooding events.
Evaluation of Potential Actions/Projects	
<b>Actions/Projects Considered (name of project and reason for not selecting):</b>	1. Do nothing – current problem continues
	2. No other feasible actions/projects were identified
	3.
Action/Project Intended for Implementation	
<b>Description of Selected Action/Project</b>	Continued improvement of drainage and maintenance along Town roadways. The Town has a general annual road maintenance program for the increasing of culvert sizes, cleaning of roadside ditches, and open water discharge areas where possible.
<b>Mitigation Action/Project Type</b>	SIP
<b>Objectives Met</b>	1, 7
<b>Applies to existing structures/infrastructure, future, or not applicable</b>	Existing
<b>Benefits (losses avoided)</b>	Medium
<b>Estimated Cost</b>	Medium
<b>Priority*</b>	Medium
Plan for Implementation	
<b>Responsible Organization</b>	Town of Columbus, Town Highway Department
<b>Local Planning Mechanism</b>	Highway, Capital Improvement
<b>Potential Funding Sources</b>	Local Funding
<b>Timeline for Completion</b>	On Going
Reporting on Progress	
<b>Date of Status Report/ Report of Progress</b>	Date: Progress on Action/Project:

\* Refer to results of Prioritization (page 2)



Number: TCL-1  
 Mitigation Action/Initiative: Improve Drainage and Maintenance Along Town Roadways

Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety		
Property Protection		
Cost-Effectiveness		
Technical		
Political		
Legal		
Fiscal		
Environmental		
Social		
Administrative		
Multi-Hazard		
Timeline		
Agency Champion		
Other Community Objectives		
<b>Total</b>		
<b>Priority (High/Med/Low)</b>	Medium	