



9.34 TOWN OF PERRYSBURG

This section presents the jurisdictional annex for the Town of Perrysburg. 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 municipality and who in the town participated in the planning process; an assessment of the Town of Perrysburg’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.

9.34.1 Hazard Mitigation Planning Team

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

Table 9.34-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Dave Heckman, Code Enforcement Address: PO Box 250, 10460 Peck Hill Rd, Perrysburg, NY 14129 Phone Number: (716) 949-7836 Email: perrysburgcodeofficer@gmail.com	Name/Title: Daniel Stang, Highway Superintendent Address: PO Box 250, 10460 Peck Hill Rd, Perrysburg, NY 14129 Phone Number: (716) 359-5517 Email: perrysburgtownclerk@gmail.com
NFIP Floodplain Administrator	
Name/Title: Dave Heckman, Code Enforcement Officer Address: PO Box 250, 10460 Peck Hill Rd, Perrysburg, NY 14129 Phone Number: (716) 949-7836 Email: perrysburgcodeofficer@gmail.com	

9.34.2 Municipal Profile

The Town of Perrysburg lies in the northwest part of Cattaraugus County in western New York State and has a total area of 28.55 square miles, with 0.13 square miles of water body. Cattaraugus Creek partially forms the border with Erie County. The town is bordered to the north by the Cattaraugus Reservation and Erie County, to the east is the Town of Persia and the Village of Gowanda, to the south is the Town of Dayton and to the west is Chautauqua County.

Data from the 2018 U.S. Census American Community Survey indicate that town has a total population of 1,598, with 5.3 percent of the town population 5 years of age or younger and 22.8 percent of the town population 65 years of age or older. Communities must deploy a support system that enables all populations to safely reach shelters or to quickly evacuate a hazard area.

History and Cultural Resources

The Town of Perrysburg was organized in 1814 and was initially named, *Perry* after Commodore Oliver Hazard Perry. The name later changed to *Perrysburgh*, then to its current, *Perrysburg*. It originally consisted of the entirety of the western half of Cattaraugus County and included Dayton, Persia, Otto, and Little Valley. The primary industries in the town following its formation included a tin shop, grist and sawmills, millinery store, a cooper shop and a cheese factory.



9.34.3 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 9.34-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. Figure 9.34-1 at the end of this annex illustrates the geographically-delineated hazard areas and the location of potential new development, where available.

Table 9.34-2. 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	1	0	2	0	1	0	2	0	2	0
Multi-Family	0	0	0	0	0	0	0	0	0	0
Other (commercial, mixed-use, etc.)	0	0	0	0	0	0	0	0	0	0
Total	1	0	2	0	1	0	2	0	2	0
Property or Development Name	Type of Development	# of Units / Structures		Location (address and/or block and lot)		Known Hazard Zone(s)*		Description / Status of Development		
Recent Major Development and Infrastructure from 2014 to Present										
None identified										
Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years										
None anticipated										

SFHA Special Flood Hazard Area (1% flood event)

* Only location-specific hazard zones or vulnerabilities identified.

9.34.4 Capability Assessment

The Town of Perrysburg performed an inventory and analysis of existing capabilities, plans, programs, and policies that enhance its ability to implement mitigation strategies. Section 6.4 (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 legal and regulatory capabilities.
- Development and permitting capabilities.
- An assessment of fiscal capabilities.
- An assessment of education and outreach capabilities.
- Information on National Flood Insurance Program (NFIP) compliance.
- Classification under various community mitigation programs.
- The community’s adaptive capacity for the impacts of climate change.

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 9.34.4). The Town of Perrysburg identified specific integration activities that will be incorporated into municipal procedures are



included in the updated mitigation strategy. Appendix H provides the results of the planning/policy document review.

Planning, Legal, and Regulatory Capability

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

Table 9.34-3. Planning, Legal, and Regulatory Capability

	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated? If no - can it be a mitigation action? If yes, add Mitigation Action #. (Tetra Tech to complete)	
Codes, Ordinances, & Requirements							
Building Code	Yes	ICC 2015	State	NYS DOS	Yes	Yes	-
Comment: None							
Zoning Code	Yes	2010	Local	Town	No	Yes	-
Comment: Update in Progress							
Subdivisions	Yes	2010 zoning	Local	Town	No	Yes	-
Comment: None							
Stormwater Management	Yes	ICC Ch33	State	Code Enforcement	Yes	Yes	-
Comment: None							
Post-Disaster Recovery	No	-	-	-	No	-	-
Comment: None							
Real Estate Disclosure	Yes	Property Condition Disclosure Act, NY Code - Article 14 §460-467	State	NYS Department of State, Real Estate Agent	Yes	-	-
Comment: None							
Growth Management	No	-	-	-	No	-	-
Comment: None							
Site Plan Review	Yes	2010 Zoning	Local	Codes	No	-	-
Comment: None							
Environmental Protection	No	-	-	-	Yes	-	-
Comment: None							
Flood Damage Prevention	Yes	No current local law – under development with zoning update	Local	Code Enforcement	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	No	2020-Perrysburg-006
Comment: None							
Municipal Separate Storm Sewer System (MS4)	No	-	-	-	Yes	-	-



	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated? If no - can it be a mitigation action? If yes, add Mitigation Action #. (Tetra Tech to complete)	
Comment: None							
Emergency Management	Yes	2010	Local	Town	Yes	-	-
Comment: None							
Climate Change	No	-	-	-	Yes	-	-
Comment: None							
Disaster Recovery Ordinance	No	-	-	-	No	-	-
Comment: None							
Disaster Reconstruction Ordinance	No	-	-	-	No	-	-
Comment: None							
Other	No	-	-	-	-	-	-
Comment: None							
Planning Documents							
Comprehensive Plan	Yes	1970s	Local	Planning	No	Yes	-
Comment: Update in progress.							
Capital Improvement Plan	Yes	Comp plan	Local	Planning	No	Yes	-
Comment: None							
Disaster Debris Management Plan	No	-	-	-	No	-	-
Comment: None							
Floodplain or Watershed Plan	No	-	-	-	No	-	-
Comment: None							
Stormwater Plan	No	-	-	-	No	-	-
Comment: None							
Open Space Plan	No	-	-	-	Yes	-	-
Comment: None							
Urban Water Management Plan	No	-	-	-	No	-	-
Comment: None							
Habitat Conservation Plan	No	-	-	-	No	-	-
Comment: None							
Economic Development Plan	No	-	-	-	No	-	-
Comment: None							
Shoreline Management Plan	No	-	-	-	Yes	-	-
Comment: None							
Community Wildfire Protection Plan	No	-	-	-	No	-	-



	Do you have this? (Yes/No)	Code Citation and Date (code chapter, name of plan, date of plan)	Authority (local, county, state, federal)	Department / Agency Responsible	State Mandated	Has this been integrated? If no - can it be a mitigation action? If yes, add Mitigation Action #. (Tetra Tech to complete)	
Comment: None							
Forest Management Plan	No	-	-	-	No	-	-
Comment: None							
Transportation Plan	No	-	-	-	No	-	-
Comment: None							
Agriculture Plan	No	-	-	-	Yes	-	-
Comment: None							
Other (this could include a climate action plan, tourism plan, business development plan, etc.)	No	-	-	-	-	-	-
Comment: None							
Response/Recovery Planning							
Comprehensive Emergency Management Plan	No	-	-	-	Yes	-	-
Comment: None							
Strategic Recovery Planning Report	No	-	-	-	-	-	-
Comment: None							
Threat & Hazard Identification & Risk Assessment (THIRA)	No	-	-	-	Yes	-	-
Comment: None							
Post-Disaster Recovery Plan	No	-	-	-	No	-	-
Comment: None							
Continuity of Operations Plan	No	-	-	-	No	-	-
Comment: None							
Public Health Plan	No	-	-	-	No	-	-
Comment: None							
Other	No	-	-	-	No	-	-
Comment: None							

Table 9.34-4. Development and Permitting Capability

Indicate if your jurisdiction implements the following	Response Yes/No; Provide further detail
Development Permits. If yes, what department?	Yes – building codes
Permits are tracked by hazard area. For example, floodplain development permits.	Yes – floodplain, stormwater





Indicate if your jurisdiction implements the following	Response Yes/No; Provide further detail
Buildable land inventory If yes, please describe If no, please quantitatively describe the level of buildout in the jurisdiction.	No, a buildable land analysis is noted in Section 4 (County Profile)

Administrative and Technical Capability

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

Table 9.34-5. Administrative and Technical Capabilities

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

Fiscal Capability

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

Table 9.34-6. 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	Yes
Stormwater utility fee	Yes
Incur debt through general obligation bonds	Yes



Financial Resources	Accessible or Eligible to Use (Yes/No)
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	Yes
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	No
Other	Yes

Education and Outreach Capability

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

Table 9.34-7. Education and Outreach Capabilities

Indicate if your jurisdiction has the following resources	Yes/No; Please describe
Public information officer or communications office?	Yes – Supervisor
Personnel skilled or trained in website development?	No
Hazard mitigation information available on your website; if yes, describe	No
Social media for hazard mitigation education and outreach; if yes, briefly describe.	Yes – would have capability to utilize Facebook
Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe.	Yes – zoning/planning
Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe.	Yes – various boards
Warning systems for hazard events; if yes, briefly describe.	Reverse 911, Code Red
Natural disaster/safety programs in place for schools; if yes, briefly describe.	Reverse 911, Code Red
Other	None

Community Classifications

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

Table 9.34-8. Community Classifications

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

Note:

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





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.

Although the town does not have specific actions being taken to address climate change, the Code Enforcement Officer is documenting the frequency of flooding events and has noted an increase in the frequency and severity of events over the last several decades. The town is an unmapped community and does not have a mapped floodplain, but Code Enforcement includes a review of current and potential future flooding in their permit review process.

Table 9.34-9. Adaptive Capacity

Hazard	Adaptive Capacity (Capabilities) - High/Medium/Low*
Flood	Medium
Landslide	Medium
Severe Storm	High
Severe Winter Storm	High
Utility Interruption	Medium
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

National Flood Insurance Program

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

NFIP Floodplain Administrator (FPA)

The Town of Perrysburg’s Floodplain Administrator is the Code Enforcement Officer.

National Flood Insurance Program (NFIP) Summary

The Town of Perrysburg does not maintain a list of property owners interested in flood mitigation and has no homeowners or businesses that are interested in mitigation. There are no current RiskMAP projects currently underway within the town. The town has made no Substantial Damage Determinations for recent flood events. No properties have been mitigated within the town. Flood hazard maps for the Town of Perrysburg do not adequately address the flood risk within the town, as they need to be updated.

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

Table 9.34-10. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Town of Perrysburg	1	3	\$2,234	0

Source: FEMA Region 2, 2020
Notes: RL Repetitive Loss





Resources

The Town of Perrysburg Building Code Enforcement Department is responsible for floodplain management, and the town has no certified floodplain staff. The town does not have access to resources to determine possible future flooding conditions from climate change. Floodplain management staff within the town request assistance or training to support its floodplain management program. The town does not require NFIP administration services and requests additional training to identify any barriers within the community to running an effective NFIP program.

Compliance History

The Town of Perrysburg does not have any outstanding NFIP compliance violations that need to be addressed. The Town of Perrysburg has not had a Community Assistance Visit (CAV) or Community Assistance Contact (CAC) visit.

Regulatory

The Town of Perrysburg does not have a flood damage prevention ordinance and the floodplain management program does not meet the minimum NFIP requirements. There are other local ordinances, plans, or programs that support floodplain management and meeting the NFIP requirements, such as the NYS Uniform Fire Prevention and Building Code.

Additional Areas of Existing Integration

Municipal Website: The Town of Perrysburg's municipal website (<https://www.townofperrysburgny.org/>) hosts community information, meeting minutes, and announcements.

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 of Perrysburg has identified Route 39 as the evacuation route.

Sheltering

The Town of Perrysburg has identified the following as designated emergency shelters in the town. Most locations capacities are 100 persons, unknown to accommodate pets, unknown to be ADA compliant, have backup power and do not provide basic medical services.

- Perrysburg Fire Hall, 12007 Main St., Perrysburg, NY 14129
- Perrysburg Town Hall, 10460 Peck Hill Rd, Perrysburg, NY 14129
- Gowanda Central School, 10674 Prospect St., Gowanda, NY 14070
- Versailles Community Center
- Versailles Fire Hall
- Versailles Methodist Church, Main St., Versailles, NY 14168
- 7th Day Adventist Church, 10700 N. Road, Perrysburg, NY 14129



9.34.6 Hazard Ranking and Jurisdiction-Specific Vulnerabilities

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

A gradient of certainty was developed to summarize the confidence level regarding the input used to populate the hazard ranking. A certainty factor of high, medium or low was selected and assigned to each hazard to provide a level of transparency and create increased understanding of the data used to support the resulting ranking. The following scale was used to assign a certainty factor to each hazard:

- High—Defined scenario/event to evaluate; probability calculated; evidenced-based/quantitative assessment to estimate potential impacts through hazard modeling.
- Moderate—Defined scenario/event or only a hazard area to evaluate; estimated probability; combination of quantitative (exposure analysis, no hazard modeling) and qualitative data to estimate potential impacts.
- Low—Scenario or hazard area is undefined; there is a degree of uncertainty regarding event probability; majority of potential impacts are qualitative.

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 Cattaraugus as a whole. Therefore, each municipality ranked the degree of risk to each hazard as it pertains to their community. The table below summarizes the hazard risk/vulnerability rankings of potential natural hazards for the Town of Perrysburg. The Town of Perrysburg has reviewed the county 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 indicated the following:

- The town changed the hazard ranking of flood from low to medium, noting that flooding does occur in the town despite floodplain mapping not indicating as such in many areas.
- The Town of Perrysburg agreed with the remainder of the calculated hazard rankings.

Table 9.34-12. Hazard Ranking Input

Flood*	Landslide	Severe Storm	Severe Winter Storm	Utility Failure	Wildfire
Medium	Low	High	High	High	Low

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

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





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 500-year flood event, or worst damage scenario. For those that do not meet this criterion, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

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

Table 9.34-13. Potential Flood Losses to Critical Facilities

Name	Type	1% Event Exposure	Addressed by Proposed Action
None identified			

Source: Town of Perrysburg, 2020

Identified Issues

The municipality has identified the following vulnerabilities within their community:

- The J.N. Adams hospital is abandoned and presents a safety concern.
- The Sewer & Water Treatment Plant needs backup power.
- Perrysburg does not have flood maps but is in the process of being mapped. The Town Zoning ordinance is being rewritten and will include a new floodplain ordinance.
- The East West Roads cross pipes, Mackinaw, Wardtown, and Planck culverts require upgrades.
- The Code Enforcement officer requires additional flood training.

9.34.7 Mitigation Strategy and Prioritization

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

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 9.34-14. Status of Previous Mitigation Actions

Project #	Project	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if project status is 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	Level of Protection; Damages Avoided; Evidence of Success	
B1.4	Evaluate areas that need a flood warning system constructed.	Flood	Village of Gowanda	Thatcher Brook	In Progress	Cost		1. Include in 2020 HMP 2. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		
B1.5	Continue to support Flood Risk management Feasibility Study in the Village of Gowanda, and Towns of Perrysburg, Persia, and Dayton, as well as Erie County and the Town of Collins.	Flood	Village of Gowanda	Thatcher Brook	Ongoing Capability	Cost		1. Include in 2020 HMP 2. Zoning Ordinance update to include Flood Damage Prevention Ordinance. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		
B2.9	Replace repetitively damaged/undersized culverts in Town of Perrysburg east/west roads.	Flood	Town		No Progress	Cost		1. Include in 2020 HMP 2. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		
B2.14	Explore alternate ways to handle flash flood runoff during storm events on east/west roads.	Flood	Town		No Progress	Cost		1. Include in 2020 HMP 2. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		
B3.11	Stream Stabilization in Town of Perrysburg on Prospect St.	Flood	Town	Slide – additional work	In Progress	Cost		1. Include in 2020 HMP 2. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		
B4.1	Project committee will investigate a plan for county, town, village, and city employees to perform routine inspections and maintenance – including the removal of debris - from road ditches, culverts,	Flood	Cattaraugus County	Thatcher Brook	Ongoing Capability	Cost		1. Discontinue 2. 3. Ongoing Capability
						Level of Protection		
						Damages Avoided; Evidence of Success		



Project #	Project	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if project status is 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	Level of Protection	
	streams, and other drainage features.							
C1.2	Investigate a Tree Maintenance program to identify susceptible trees.	Severe Storm	County DPW		No Progress	Cost		1. Include in 2020 HMP 2. 3.
						Level of Protection		
						Damages Avoided; Evidence of Success		



Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Town of Perrysburg 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:

- Increased internet access to the limited/ underserved rural area

Proposed Hazard Mitigation Initiatives for the Plan Update

The Town of Perrysburg participated in a mitigation action workshop in September 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 9.34-15 summarizes the comprehensive range of specific mitigation initiatives the Town of Perrysburg 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, 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 9.34-16 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.34-15. 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
2020-Perrysburg-001	Culvert upgrades	1	Flood	Problem: Repetitively damaged/undersized culverts in Town of Perrysburg include east/west roads cross pipes, Mackinaw, Wardtown, and Planck lead to damages and increased flood risk.	No	None	Within 5 years	Town	\$5,000 per culvert	Ongoing capability	HMGP, BRIC, CHIPS, town budget	High	SIP	SP
				Solution: The town will complete engineering studies to replace and upsize the repetitively damaged/undersized culverts.										
2020-Perrysburg-002	Stream Stabilization in on Prospect Street	2	Landslide, Flood	Problem: Streambank failure on Prospect Street poses a landslide and flood risk.	No	None	Within 5 years	Town	Medium	Ongoing Capability	HMGP, town budget	High	NSP	NR
				Solution: The town will continue to identify the best course of action to address streambank failure and implement the identified actions.										
2020-Perrysburg-003	Tree Maintenance Program	1	Severe Storm, Ice Storm	Problem: The Town does not have a tree trimming program in place. It is unknown the safety of trees throughout the town. During wind events or heavy snow, falling tree branches can damage utilities and private property.	No	None	3 months	Town DPW	\$5,000	Reduction in power loss, property damage.	HMGP, BRIC, County Budget	High		
				Solution: The town will develop a tree trimming maintenance program. The program will include conducting tree inventories to determine which ones pose a threat in the event of a storm. Once identified, the town will trim or remove trees that pose a threat.										
	Certified Floodplain	3	Flood	Problem: Floodplain manager requires training. Those	No	None	Within 1 year	Perrysburg Code	Staff time	Certified floodplain	County Budget	High	LPR	PR





Table 9.34-15. 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
2020-Perrysburg-004	Manager Training			responsible for floodplain management are lacking in their knowledge of required duties. Training is sorely needed for all municipal officials and for code enforcement officials in charge of municipalities. Solution: Obtain/host specialist training and certification for floodplain manager				Enforcement Department		managers trained. Floodplain management improved.				
2020-Perrysburg-005	Continuous Public Education	3	Wildfire	Problem: Public needs to be educated on what they can do to protect their structures from wildfires Solution: Continuous Public Education. This will be done via pamphlets and website resources and include such information as: the dissemination of American Red Cross evacuation centers, supplies to have on hand, listing of emergency telephone numbers	No	None	Within 5 years	Town	\$2,000	Public educated	Town budget	High	EAP	PI
2020-Perrysburg-006	Update Zoning Ordinance	2	Flood	Problem: Perrysburg does not have flood maps but is in the process of being mapped. The Town Zoning ordinance is being rewritten and will include a new floodplain ordinance. Solution: The town will support FEMA’s mapping process. The Town Zoning ordinance is being rewritten and will include a new floodplain ordinance.	No	None	Within 6 months	Town	<\$100	Construction meets state standards	Town budget	High	LPR	PR
2020-Perrysburg-007	Backup Power for Sewer & Water Treatment Plant	1	Utility Failure	Problem: Backup power sources are necessary to maintain critical services for critical facilities. The Sewer & Water Treatment Plant requires permanent backup power.	Yes	None	Within 5 years	Engineer DPW	\$75,000	Continuity of operations of sewer & water	FEMA HMGP and BRIC, USDA Community Facilities	High	SIP	ES





Table 9.34-15. 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
				Solution: The Town Engineer will research what size generator is necessary to supply backup power to the Sewer & Water Treatment Plant. The town will then install a backup power generator and necessary electrical components.						treatment plant	Grant Program, EMPG, Municipal Budget			

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
- BRIC Building Resilient Infrastructure and Communities

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 9.34-16. 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 Objectives	Total	High / Medium / Low
2020-Perrysburg-001	Culvert Upgrades	0	1	1	1	1	1	0	1	1	1	1	0	1	1	11	High
2020-Perrysburg-002	Stream Stabilization in on Prospect St.	0	1	0	1	1	0	0	1	1	1	1	0	1	1	9	High
2020-Perrysburg-003	Tree Maintenance Program	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2020-Perrysburg-004	Certified Floodplain Manager Training	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Perrysburg-005	Continuous Public Education	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2020-Perrysburg-006	Update Zoning Ordinance	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2020-Perrysburg-007	Backup Power for Sewer & Water Treatment Plant	1	1	1	1	1	1	0	1	1	1	0	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).



9.34.8 Proposed Mitigation Action Types

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

Table 9.34-17. Analysis of Mitigation Actions by Hazard and Category

Hazard	FEMA				CRS					
	LPR	SIP	NSP	EAP	PR	PP	PI	NR	SP	ES
Flood	X	X	X		X			X	X	
Landslide			X					X		
Severe Storm										
Severe Winter Storm										
Utility Interruption		X								X
Wildfire				X			X			

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

9.34.9 Staff and Local Stakeholder Involvement in Annex Development

The Town of Perrysburg 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: Highway Superintendent and Code Enforcement Official. The Code Enforcement Official represented the community on the Cattaraugus County 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 municipality’s planning process through Planning Partnership meetings is included in Section 3 (Planning Process) and Appendix C (Meeting Documentation).

9.34.10 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Town of Perrysburg 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. The maps have only been generated for those hazards that can be clearly identified using mapping techniques and technologies, and for which the Town of Perrysburg has significant exposure. These maps are illustrated below.



Figure 9.34-1. Town of Perrysburg Hazard Area Extent and Location Map 1

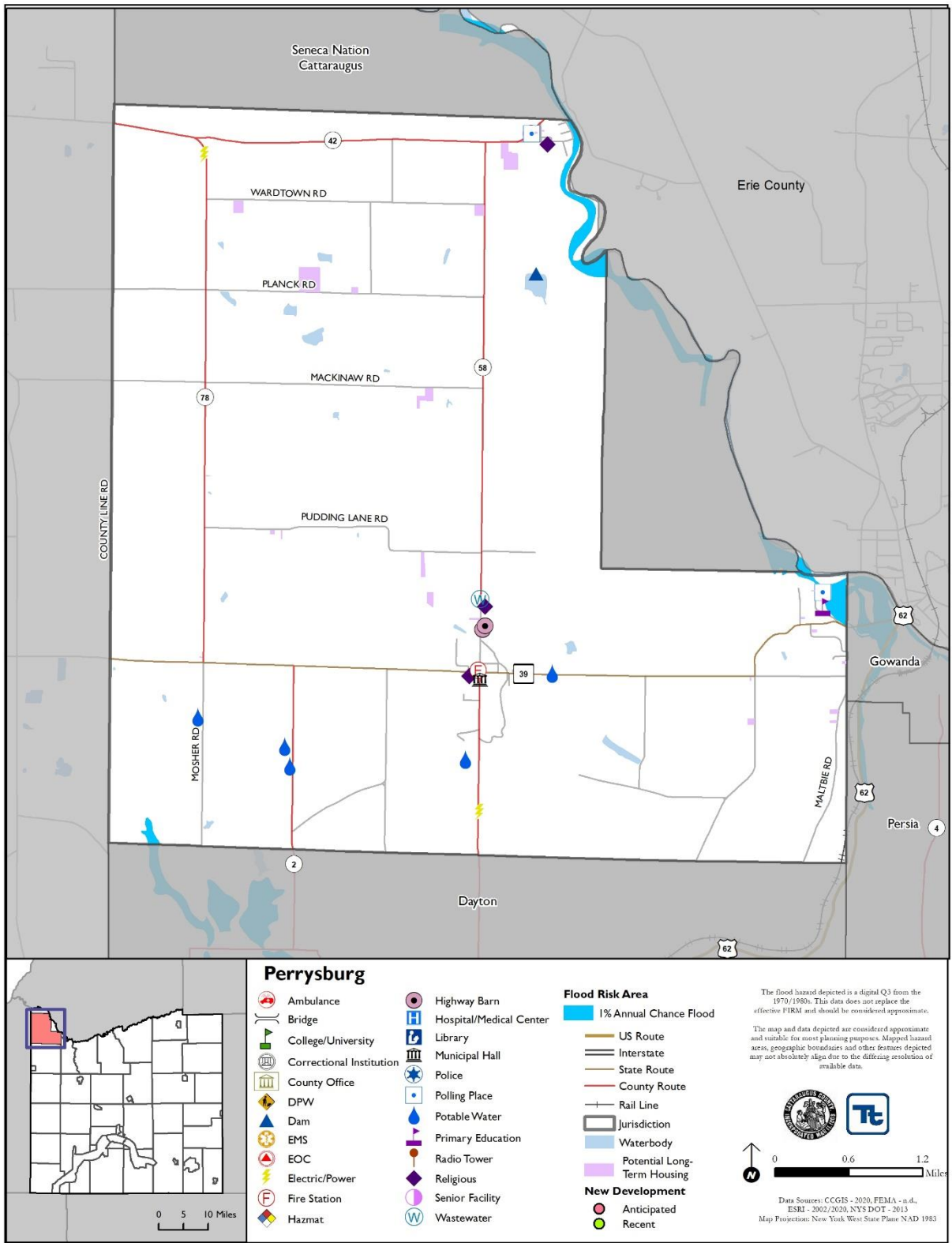
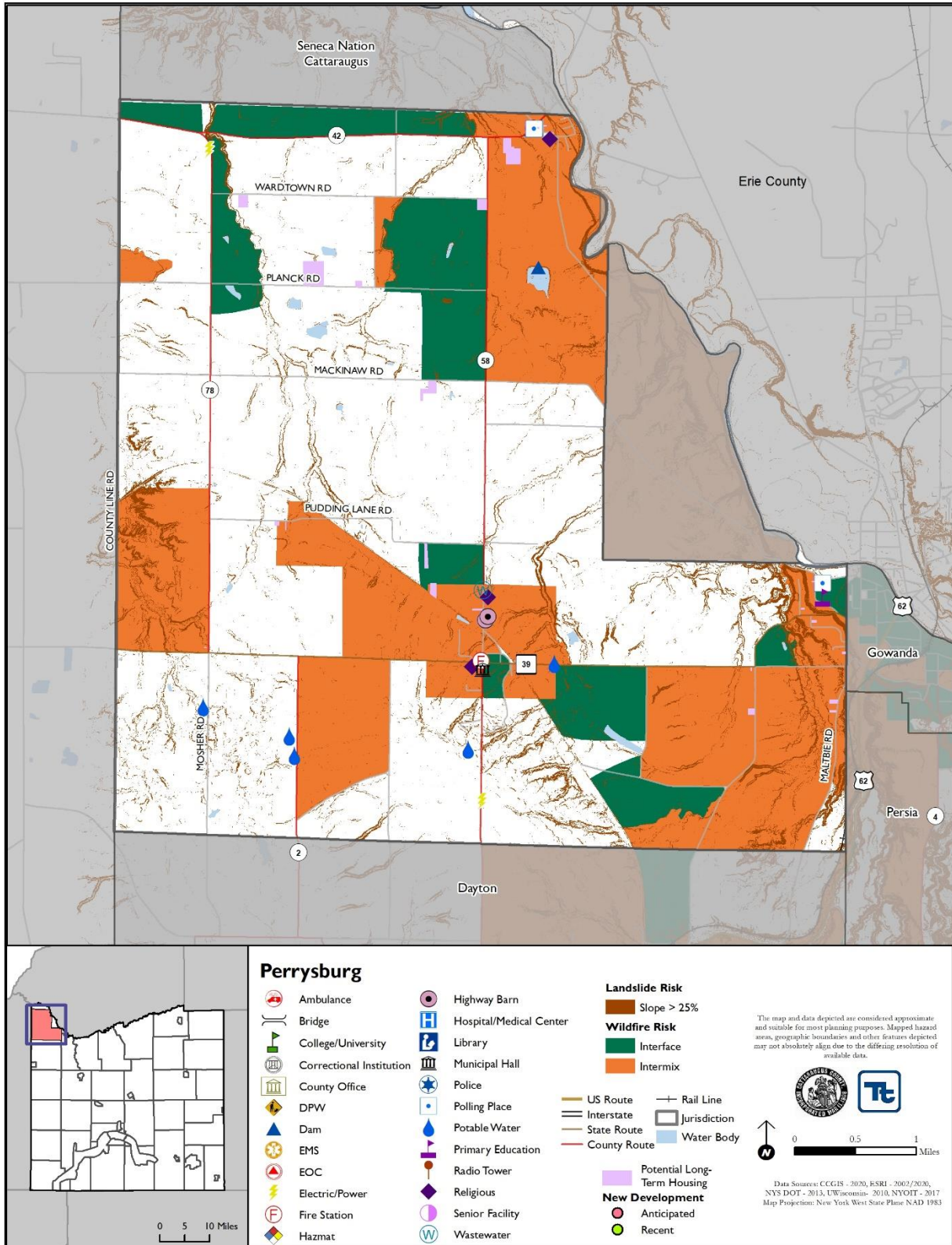




Figure 9.34-2. Town of Perrysburg Hazard Area Extent and Location Map 2





Action Worksheet			
Project Name:	Culvert Upgrades		
Project Number:	2020-Perrysburg-001		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Repetitively damaged/undersized culverts in Town of Perrysburg include east/west roads cross pipes, Mackinaw, Wardtown, and Planck lead to damages and increased flood risk.		
Action or Project Intended for Implementation			
Description of the Solution:	The town will complete engineering studies to replace and upsize the repetitively damaged/undersized culverts.		
Is this project related to a Critical Facility?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Is this project related to a Critical Facility located within the Special Flood Hazard 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:	At least a 5-year event; will be determined once project is complete	Estimated Benefits (losses avoided):	Reduction in culvert damages and flood risk
Useful Life:	30 years	Goals Met:	1
Estimated Cost:	\$5,000 per culvert	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	HMGP, BRIC, CHIPS, town budget
Responsible Organization:	Public Works	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Current problem continues
	Remove road	\$20,000	Roadway cannot be removed
	Relocate road to another location	\$50,000	Roadway will still need to cross stream, costly
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Culvert Upgrades	
Project Number:	2020-Perrysburg-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Project will protect roadways from flooding, culvert damages
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The town has the legal authority to complete the project.
Fiscal	0	Project requires funding support.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Storm, Flood
Timeline	0	Within 5 years
Agency Champion	1	Public Works
Other Community Objectives	1	
Total	11	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Backup Power for Sewer & Water Treatment Plant		
Project Number:	2020-Perrysburg-007		
Risk / Vulnerability			
Hazard(s) of Concern:	Utility Failure		
Description of the Problem:	Backup power sources are necessary to maintain critical services for critical facilities. The Sewer & Water Treatment Plant requires permanent backup power.		
Action or Project Intended for Implementation			
Description of the Solution:	The Town Engineer will research what size generator is necessary to supply backup power to the Sewer & Water Treatment Plant. The town will then install a backup power generator and necessary electrical components.		
Is this project related to a Critical Facility?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Is this project related to a Critical Facility located within the Special Flood Hazard 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:	N/A	Estimated Benefits (losses avoided):	Ensures continuity of operations of Sewer & Water Treatment Plant
Useful Life:	20 years	Goals Met:	1
Estimated Cost:	\$75,000	Mitigation Action Type:	Structure and Infrastructure Projects (SIP)
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 5 years
Estimated Time Required for Project Implementation:	1 year	Potential Funding Sources:	FEMA HMGP and BRIC, USDA Community Facilities Grant Program, Emergency Management Performance Grants (EMPG) Program, Municipal Budget
Responsible Organization:	Engineer, DPW	Local Planning Mechanisms to be Used in Implementation if any:	Hazard Mitigation, Emergency Management
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Install solar panels	\$100,000	Weather dependent; need large amount of space for installation; expensive if repairs needed
	Install wind turbine	\$100,000	Weather dependent; poses a threat to wildlife; expensive repairs if needed
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Action Worksheet		
Project Name:	Backup Power for Sewer & Water Treatment Plant	
Project Number:	2020-Perrysburg-007	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of Sewer & Water Treatment Plant
Property Protection	1	Project will protect Sewer & Water Treatment Plant from power loss.
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The town has the legal authority to complete the project.
Fiscal	0	Project requires funding support.
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	0	Utility Failure
Timeline	1	1 year
Agency Champion	1	Engineer, DPW
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	