



9.35 TOWN OF PERSIA

This section presents the jurisdictional annex for the Town of Persia. 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 Persia’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.

9.35.1 Hazard Mitigation Planning Team

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

Table 9.35-1. Hazard Mitigation Planning Team

Primary Point of Contact	Alternate Point of Contact
Name/Title: Daniel Ackley, Highway Superintendent Address: 8 West Main Street, Gowanda, NY 14070 Phone Number: (716) 353-6384 Email: PersiaHighway@townofpersia.com	Name/Title: John T. Walgus, Supervisor Address: 8 West Main Street, Gowanda, NY 14070 Phone Number: (716) 532-4042 Email: JohnWalgus@townofpersia.com
NFIP Floodplain Administrator	
Name/Title: Mel Shaw, Code Enforcement Officer Address: 8 West Main Street, Gowanda, NY 14070 Phone Number: (716) 532-3006	

9.35.2 Municipal Profile

The Town of Persia lies in the northern part of Cattaraugus County in western New York State and has a total area of 20.99 square miles. Cattaraugus Creek partially forms the northern and eastern town borders of the town. The town is bordered to the north by the Town of Collins in Erie County, to the east is the Town of Otto, to the south is the Town of New Albion, and to the west is the Towns of Dayton and Perrysburg.

Data from the 2018 U.S. Census American Community Survey indicate that town has a total population of 2,458, with 4.3 percent of the town population 5 years of age or younger and 22.4 percent of the town population 65 years of age or older.

History and Cultural Resources

The Town of Persia was formed on February 7, 1835 from part of the Town of Perrysburg. Saw milling was the primary industry in the town following its formation, leading to the creation of several blacksmith, wool carding and clothing factories.

9.35.3 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 9.35-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. Figure 9.35-1 at the end of this annex illustrates the geographically-delineated hazard areas and the location of potential new development, where available.





Table 9.35-2. 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	Data Unavailable									
Multi-Family										
Other (commercial, mixed-use, etc.)										
Total	7	0	5	0	8	0	6	0	7	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.

9.35.4 Capability Assessment

The Town of Persia 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 9.35.4). The Town of Persia 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 Persia and where hazard mitigation has been integrated.



Table 9.35-3. 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 #.	
Codes, Ordinances, & Requirements							
Building Code	Yes	Building Code	Local	CEO	Yes	Yes	-
Comment: None							
Zoning Code	Yes	Town of Persia Zoning Ordinance	Local	CEO ZBA	No	Yes	-
Comment: For the purpose of promoting the public health, safety, comfort and general welfare; conserving and protecting property and property values; securing the most appropriate use of land; lessening or avoiding congestion in the public streets and highways; minimizing flood losses in areas subject to periodic inundation; and facilitating adequate but economical provision of public improvements, all in accordance with a comprehensive plan.							
Subdivisions	Yes	Subdivisions	Local	CEO	No	Yes	-
Comment: None							
Stormwater Management	No	-	-	-	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	Yes	-
Comment: None							
Growth Management	No	-	-	-	No	-	-
Comment: None							
Site Plan Review	Yes	Site Plan Review	Local	CEO	No	Yes	-
Comment: None							
Environmental Protection	No	-	-	-	Yes	-	-
Comment: None							
Flood Damage Prevention	Unknown	-	-	-	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	-	2020-Persia-013
Comment: The town only had one home/building located in a flood plain and it was destroyed in the flood of 2009. The owner rebuilt on higher ground out of the flood plain.							
Municipal Separate Storm Sewer System (MS4)	No	-	-	-	Yes	-	-
Comment: None							
Emergency Management	Yes	Emergency Management	County	CC EMS	Yes	Yes	-
Comment: None							
Climate Change	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 #.	
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	Comprehensive Plan	Local	Planning Board	No	Yes	-
Comment: None							
Capital Improvement Plan	No	-	-	-	No	-	-
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	-	-
Comment: None							
Forest Management Plan	No	-	-	-	No	-	-
Comment: None							
Transportation 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 #.	
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 9.35-4. Development and Permitting Capability

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

Administrative and Technical Capability

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





Table 9.35-5. Administrative and Technical Capabilities

Resources	Available? (Yes or No)	Department/ Agency/Position
Administrative Capability		
Planning Board	Yes	Planning 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	Fire Department Cattaraugus County Emergency E911 Dispatch
Maintenance programs to reduce risk	No	-
Mutual aid agreements	Yes	Fire Department, Highway Department
Technical/Staffing Capability		
Planners or engineers with knowledge of land development and land management practices	No	-
Engineers or professionals trained in building or infrastructure construction practices	No	-
Planners or engineers with an understanding of natural hazards	No	-
Staff with expertise or training in benefit/cost analysis	No	-
Professionals trained in conducting damage assessments	No	-
Personnel skilled or trained in GIS and/or Hazards United States (HAZUS) – Multi-Hazards (MH) applications	No	-
Scientist familiar with natural hazards	No	-
NFIP Floodplain Administrator (FPA)	Yes	Code Enforcement Officer
Surveyor(s)	No	-
Emergency Manager	Yes	Cattaraugus County EMS
Grant writer(s)	No	-
Resilience Officer	No	-
Other	No	-

Fiscal Capability

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

Table 9.35-6. Fiscal Capabilities

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
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	No
Stormwater utility fee	No
Incur debt through general obligation bonds	Yes
Incur debt through special tax bonds	Yes
Incur debt through private activity bonds	N/A
Withhold public expenditures in hazard-prone areas	N/A
Other federal or state Funding Programs	Yes
Open Space Acquisition funding programs	N/A
Other	N/A



Education and Outreach Capability

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

Table 9.35-7. Education and Outreach Capabilities

Indicate if your jurisdiction has the following resources	Yes/No; Please describe
Public information officer or communications office?	Yes, Disaster Coordinator-Supervisor
Personnel skilled or trained in website development?	Yes, Southern Tier West Regional Planning and Development Board
Hazard mitigation information available on your website; if yes, describe	No
Social media for hazard mitigation education and outreach; if yes, briefly describe.	No
Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe.	No
Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe.	Social Media, Town website: www.persiany.org
Warning systems for hazard events; if yes, briefly describe.	No
Natural disaster/safety programs in place for schools; if yes, briefly describe.	No
Other	No

Community Classifications

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

Table 9.35-8. Community Classifications

Program	Participating? (Yes/No)	Classification (if applicable)	Date Classified (if applicable)
Community Rating System (CRS)	No	-	-
Building Code Effectiveness Grading Schedule (BCEGS)	No	-	-
Public Protection (ISO Fire Protection Classes 1 to 10)	No	-	-
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.



The Town of Persia has access to information from the National Weather Service to determine future impacts from climate change. The town does not currently have any climate change related actions taking place but would be supportive of integrating climate change in the future.

Table 9.35-9. 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)

Mel Shaw, Code Enforcement Officer (CEO)

National Flood Insurance Program (NFIP) Summary

The Town of Persia 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 does not make Substantial Damage Determinations for flood events.

One property has been mitigated within the town. The town only had one home/building located in a floodplain and it was destroyed in the flood of 2009. The owner rebuilt on higher ground out of the floodplain.

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

Table 9.35-10. NFIP Summary

Municipality	# Policies	# Claims (Losses)	Total Loss Payments	# RL Properties
Town of Persia	1	0	\$0	0

Source: FEMA Region 2, 2020

Notes:

RL Repetitive Loss

Resources

The Town of Persia’s Code Enforcement Officer is responsible for floodplain management, but is not a Certified Floodplain Manager (CFM). The town does not have access to resources to determine possible future flooding conditions from climate change. Floodplain management staff within the town requests assistance or training to support its floodplain management program. The town did not identify any barriers within the community to running an effective NFIP program. The town does not qualify proposed development on an existing structure as a substantial improvement.



Compliance History

The Town of Persia does not have any outstanding NFIP compliance violations that need to be addressed, as they have never had a Community Assistance Visit (CAV) or Community Assistance Contact (CAC).

Regulatory

The town does not participate in the CRS program. The status of the flood damage prevention ordinance is unknown.

Additional Areas of Existing Integration

Town Website: The Town of Persia maintains a municipal website (<http://www.persiany.org/>) which hosts information on the town government, events, 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 Persia has identified US Route 62, NYS Routes 39 and 353, and County Road 4 as evacuation routes.

Sheltering

The Town of Persia has identified the Gowanda Volunteer Fire Department located at 230 Aldrich Street as an emergency shelter. The Gowanda Volunteer Fire Department capacity is 50 persons, accommodates pets, is ADA compliant, includes backup power, can provide emergency first aid, AED and CPR, and has food, water and restroom facilities.

Temporary Housing

The Town of Persia has identified that there are no temporary housing locations available. The Town of Persia will work with Cattaraugus County to identify regional locations for temporary housing (2020-Persia-014).

Permanent Housing

The Town of Persia has identified that there are no permanent housing locations available. A buildable land analysis is noted in Section 4 (County Profile). The Town of Persia will work with Cattaraugus County to identify regional locations for permanent housing (2020-Persia-014).

9.35.5 Hazard Event History Specific to the Town of Persia

Cattaraugus County has a history of natural and non-natural hazard events as detailed in Volume I, Section 5 (Risk Assessment) of this plan. A summary of historical events is provided in each of the hazard profiles and includes a chronology of events that have affected the county and its municipalities. The Town of Persia's history of federally-declared (as presented by FEMA) and significant hazard events (as presented in NOAA-NCEI) is consistent with that of Cattaraugus County. Table 9.35-11 provides details regarding municipal-specific loss and damages the town experienced during hazard events. Information provided in the table below is based on reference material or local sources. For details of these and additional events, refer to Volume I, Section 5.0 of this plan.



Table 9.35-11. Hazard Event History

Dates of Event	Event Type (Disaster Declaration if applicable)	County Designated?	Summary of Event	Municipal Summary of Damages and Losses
October 27- November 8, 2012	Hurricane Sandy (FEMA-EM-3351)	Yes	Remnants of Hurricane Sandy brought strong winds and heavy rains downing trees and powerlines.	Although the county was impacted, the Town of Persia did not report any damages.
May 13-22, 2014	Severe Storms and Flooding (FEMA-DR-4180)	Yes	The torrential rains produced flash flooding and washed out roads inundated with flowing water	Debris-laden water from heavy rains, which caused extensive road surface and shoulder damage totaling \$100,000.00
November 17-26, 2014	Severe Winter Storm, Snowstorm, and Flooding (FEMA-DR-4204)	Yes	Winter storm brought record rainfall heavy snow resulting in travel and school disruptions.	Although the county was impacted, the Town of Persia did not report any damages.
July 14, 2015	Flash Flood	No	Showers and thunderstorms brought heavy rainfall resulting in flash flooding and washed out roads.	Damages from this flash flood totaled \$429,237.88.
March 8, 2017	High Wind	No	High winds brought down powerlines and trees and damaged several buildings.	Although the county was impacted, the Town of Persia did not report any damages.

Notes:

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

9.35.6 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 Persia’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 Persia. The Town of Persia 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 of Persia indicated the following:

- The Town of Persia changed the hazard ranking for flood from low to medium, noting that past flooding events have resulted in major damages and loss to life.
- The Town of Persia changed the hazard ranking for landslide from low to medium, noting that Point Peter Road is in danger of being lost if a landslide event takes place.
- The Town of Persia agreed with the remaining calculated hazard rankings.

Table 9.35-12. Hazard Ranking Input

Flood*	Landslide*	Severe Storm	Severe Winter Storm	Utility Failure	Wildfire
Medium	Medium	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 0.2-percent annual chance flood event, or worst damage scenario. For those that do not meet this criteria, the jurisdiction must identify an action to achieve this level of protection (NYS DHSES 2017).

The table below identifies critical facilities in the community located in the 1-percent 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 9.35-13. Potential Flood Losses to Critical Facilities

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

Source: Town of Persia 2020, Cattaraugus County 2020



Identified Issues

The municipality has identified the following vulnerabilities within their community:

- Landslide on Point Peter Road above the Cattaraugus Creek near the Village of Gowanda Reservoir Area.
- Cross culvert failure on Hawkins Road- a no-outlet, dead end road. The cross culvert is at the beginning of Hawkins Road, leaving the residents of Hawkins Rd. with no outlet or evacuation route if and when the road does wash out and falls into the adjacent ravine.
- Town Hall and the Highway Garages require backup power.
- Town Hall is located in the floodplain and requires floodproofing.
- Thatcher Brook is prone to debris jams and requires an additional trash rack.
- A salt and sand shed is needed to protect the salt and sand supply from rainfall and protect the town's winter storm response.
- Zoar Valley's popularity has led to issues with emergency vehicle access, need for search and rescue, and increased wildfire risk.

9.35.7 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 9.35-14. Status of Previous Mitigation Actions

Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in 2020 HMP or Discontinue 2. If including action in the 2020 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
						Cost	Level of Protection; Damages Avoided; Evidence of Success	
B1.4	Evaluate areas that need a flood warning system constructed.	Flood	Village of Gowanda	No response time for flash flooding	Ongoing Capability			1. Include in 2020 HMP 2. 3.
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	205 Army Corps of Engineers	Ongoing Capability			1. Include in 2020 HMP 2. 3.
B2.10	Replace repetitively damaged/undersized culvert in Town of Persia on Hawkins Rd.	Flood	Town	Erosion/washout	Ongoing Capability			1. Include in 2020 HMP 2. 3.
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, streams, and other drainage features.	Flood	Cattaraugus County	Thatcher Brook Task Force	Ongoing Capability			1. Include in 2020 HMP 2. 3.
C1.2	Investigate a Tree Maintenance program to identify susceptible trees.	Severe Storm	County DPW	Mature trees/emergency callouts	No Progress			1. Include in 2020 HMP 2. 3.
G1.12	Study slide conditions in the Town of Persia near	Landslide	Town	Steep bank, poor soils	No Progress			1. Include in 2020 HMP



Project #	Project Name	Hazard(s) Addressed	Responsible Party	Brief Summary of the Original Problem and the Solution (Project)	Status (In Progress, Ongoing, No Progress, Complete)	Evaluation of Success (if complete)		Next Steps 1. Project to be included in 2020 HMP or Discontinue 2. If including action in the 2020 HMP, revise/reword to be more specific (as appropriate). 3. If discontinue, explain why.
	the Gowanda water reservoir on Point Peter Rd.					Damages Avoided; Evidence of Success		2. 3.



Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy

The Town of Persia 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:

- None identified

Proposed Hazard Mitigation Initiatives for the Plan Update

The Town of Persia 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 9.35-15 summarizes the comprehensive-range of specific mitigation initiatives the Town of Persia 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 9.35-16 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.35-15. 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-Persia-001	Replace repetitively damaged/undersized culvert in Town of Persia on Hawkins Rd.	1	Flood, Severe Storm	<p>Problem: Erosion/washout due to damaged/undersized culvert on Hawkins Rd. The Culvert underneath Hawkins Rd is located directly up slope (200' + -) from the Village of Gowanda's drinking water reservoir. If the culvert fails, the ensuing silt, brush etc. would wash down the slope into the villages drinking water system. If enough debris is washed into the reservoir, presumably because of and rain/flood event, it could possibly plug the reservoirs outflow and cause a catastrophic event with the berm, reservoir culvert and Pt. Peter Rd which the culvert flows underneath on its way to the Cattaraugus Creek and Lake Erie.</p> <p>Solution: The town will complete engineering studies to replace and upsize the repetitively damaged/undersized culvert and complete upstream and downstream improvements.</p>	No	None	2 years	Public Works	\$350,000	Reduction in culvert damages and flood risk	HMGP, BRIC, CHIPS, town budget	High	SIP	SP
2020-Persia-002	Investigate a Tree Maintenance program to identify susceptible trees.	1	Severe Storm, Severe Winter Storm, Utility Failure	<p>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.</p> <p>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.</p>	No	No	3 months	DPW	\$5,000	Reduction in power loss, property damage.	HMGP, BRIC, town budget	High	NSP	NR
	Study slide conditions in	1	Landslide	<p>Problem: The town needs to determine local vulnerabilities to landslides</p>	No	No	Within 6 months	Town of Persia	Staff time	Local vulnerability	Town budget	High	LPR, SIP	





Table 9.35-15. 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-Persia-003	the Town of Persia near the Gowanda water reservoir on Point Peter Road.			<p>threatening property and roads. Point Peter Road has been identified as being at high risk for landslide and could result in loss of the roadway.</p> <p>Solution: Work with county to conduct surveys to determine local vulnerabilities to landslides threatening property and roads, coordinate with municipalities to limit development in these areas and develop remedial measures for existing vulnerabilities.</p>						ies to landslides threatening property and roads determined				PR, PP
2020-Persia-004	Implement/Encourage Training for Code Enforcement Officers.	2, 3	Flood	<p>Problem: Floodplain managers require training. Those 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. Very little zoning precludes homeowners from building in floodplains, leading to problems later.</p> <p>Solution: Obtain/host specialist training and certification for floodplain managers.</p>	No	None	Within 5 years	Administration	\$3,000	Certified floodplain managers trained. Floodplain management improved.	County/town budget	High	EAP	PI
2020-Persia-005	Continuous Public Education	3	Wildfire	<p>Problem: Public needs to be educated on what they can do to protect their structures from wildfires</p> <p>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</p>	No	None	Within 5 years	Town	\$2,000	Public Educated	Town Budget	High	EAP	PI
	Backup Power for Town Hall	1	Utility Failure	<p>Problem: Town Hall and the Highway Garages require backup power.</p>	Yes	None	Within 5 years	OEM, DPW		Ensures continuity	FEMA HMGP and	High	SIP	ES





Table 9.35-15. 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-Persia-006	and Highway Garages			Solution: The town will research what size generator is necessary to supply backup power to the DPW/Maintenance Facilities. The town will then install a backup power generator and necessary electrical components.					\$50,000 per generator	of operations of Town Hall and Highway Garages	BRIC, USDA Community Facilities Grant Program, EMPG, Municipal Budget			
2020-Persia-007	Town Hall Floodproofing	1	Flood, Severe Storm	Problem: Town Hall is located in the floodplain and requires floodproofing. Solution: The town will complete an engineering study to determine the best floodproofing methods. The Town DPW will then implement the desired floodproofing actions.	Yes	None	Within 5 years	DPW	Medium-High	Reduction in flood risk to Town Hall	FEMA HMGP, BRIC, USDA Community Facilities Grant Program, Municipal Budget	High	SIP	PP
2020-Persia-008	Thatcher Brook Trash Rack	2	Flood	Problem: Thatcher Brook is prone to debris jams which cause flooding. Solution: The town will work to install a trash rack along Thatcher Brook.	No	May require permitting	Within 5 years	DPW, Administration	Medium	Reduction in debris jams, flooding	HMGP, BRIC, Municipal budget	High	SIP	PP
2020-Persia-009	Salt and Sand Barn	1	Severe Storm, Severe Winter Storm	Problem: The town's salt and sand supply is exposed to rainfall. This leads to runoff and degradation of the Town's ability to respond to winter storm events. Solution: The town will construct a salt sand barn with a structurally sound and weather-proof structure to protect the Town salt and sand supply for winter storm response. The DPW will be responsible for construction and maintenance.	Yes	Yes, addresses runoff	Within 1 year	DPW	\$50,000	Continuity of road clearing services in winter, reduction in runoff	FEMA HMGP, BRIC, WQIP, USDA Community Facilities Grant Program, Municipal Budget	High	SIP	PP
2020-Persia-010	Zoar Valley Emergency Access	1	All Hazards	Problem: Zoar Valley Multiple Use Area's popularity has led to issues with emergency vehicle access, need for search and rescue, and increased wildfire risk.	No	May require permitting	Within 5 years	Administration, NYS DEC	Medium	Emergency access and wildfire firefighting	NYS DEC, town budget	High	SIP	ES



Table 9.35-15. 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 will work with NYS DEC to increase emergency access roadways for emergency response and fire fighting capabilities.						capabilities maintained				
2020-Persia-011	Zoar Valley Educational Kiosks	3	All Hazards	<p>Problem: The town has needed to respond to members of the public which have placed themselves in hazardous situations in the Zoar Valley Multiple Use Area. Better public education is necessary to prevent emergencies.</p> <p>Solution: The town will work with NYS DEC to construct information kiosks to warn of potential hazards in the Multiple Use Area.</p>	No	None	2 years	Administration, NYS DEC	\$5,000	Educated public, decrease in need for emergency response	NYS DEC, town budget	High	EAP	PI
2020-Persia-012	Drone for Emergency Response and Hazard Monitoring	1, 2, 3	All Hazards	<p>Problem: Remote locations in the town are not easily accessible. This makes emergency response and monitoring of potential hazard areas or ongoing hazard events difficult. The Zoar Valley Multiple Use Area in particular is a high risk area containing a 400 foot deep gorge that regularly results in stranded hikers during hazard events.</p> <p>Solution: The town will purchase a drone equipped with visual equipment to allow for monitoring and emergency search capabilities. Staff will undergo training.</p>	No	None	1 year	OEM	\$2,500	Increased emergency response and hazard monitoring capabilities	HMGP, EMPG, town budget	High	LPR	ES
2020-Persia-013	Flood Damage Prevention Ordinance	1, 2	Flood	<p>Problem: The Town of Persia is unaware of the location of the flood damage prevention ordinance.</p> <p>Solution: The town will adopt an updated flood damage prevention ordinance to maintain NFIP compliance.</p>	No	None	Within 6 months	FPA	Staff time	NFIP compliance	Town budget	High	LPR	PR
2020-Persia-014	Identification of Temporary and Permanent	1	All Hazards	Problem: The Town of Persia needs to identify locations for the placement of	No	None	Within 6 months	Administration	Staff time	Temporary and permanent	Town budget	High	LPR	ES





Table 9.35-15. 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
	Housing Locations			temporary housing and permanent housing. Solution: The Town of Persia will work with Cattaraugus County to identify regional locations for temporary and permanent housing.						housing locations identified				

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 9.35-16. 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-Persia-001	Replace repetitively damaged/undersized culvert in Town of Persia on Hawkins Road.	0	1	1	1	1	1	0	1	1	1	1	0	1	1	11	High
2020-Persia-002	Investigate a Tree Maintenance program to identify susceptible trees.	1	1	1	1	1	1	0	1	1	1	1	1	1	1	13	High
2020-Persia-003	Study Slide Conditions in the Town of Persia Near the Gowanda water reservoir on Point Peter Road.	1	1	0	0	1	1	0	1	1	1	0	0	1	1	9	High
2020-Persia-004	Implement/Encourage training for Code Enforcement Officers.	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020-Persia-005	Continuous Public Education	1	1	1	1	1	1	1	1	1	1	1	1	1	1	14	High
2020-Persia-006	Backup Power for Town Hall and Highway Garages	1	1	1	1	1	1	0	1	1	1	0	1	1	1	12	High
2020-Persia-007	Town Hall Floodproofing	1	1	1	1	1	1	0	1	1	1	0	1	1	1	12	High
2020-Persia-008	Thatcher Brook Trash Rack	0	1	1	1	1	0	0	1	1	1	0	0	1	1	9	High
2020-Persia-009	Salt and Sand Barn	1	0	1	1	1	1	0	1	1	1	1	1	1	1	12	High
2020-Persia-010	Zoar Valley Emergency Access	1	0	1	1	0	0	0	0	1	1	1	0	1	1	8	Medium
2020-Persia-011	Zoar Valley Educational Kiosks	1	0	1	1	1	0	1	1	1	1	1	1	1	1	12	High
2020-Persia-012	Drone for Emergency Response and Hazard Monitoring	1	0	0	1	1	1	0	1	1	1	1	1	1	1	11	High
2020-Persia-013	Flood Damage Prevention Ordinance	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Persia-014	Identification of Temporary and Permanent Housing Locations	1	0	1	1	1	1	1	1	1	1	1	1	1	1	13	High

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





9.35.8 Proposed Mitigation Action Types

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

Table 9.35-17. 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		X	X
Landslide	X	X		X	X	X	X			X
Severe Storm	X	X	X	X		X	X	X	X	X
Severe Winter Storm	X	X	X	X		X	X	X		X
Utility Interruption	X	X	X	X			X	X		X
Wildfire	X	X		X			X			X

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

9.35.9 Staff and Local Stakeholder Involvement in Annex Development

The Town of Persia 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 Supervisor. The Supervisor 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).

9.35.10 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Town of Persia 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 Persia has significant exposure. These maps are illustrated below.



Figure 9.35-1. Town of Persia Hazard Area Extent and Location Map 1

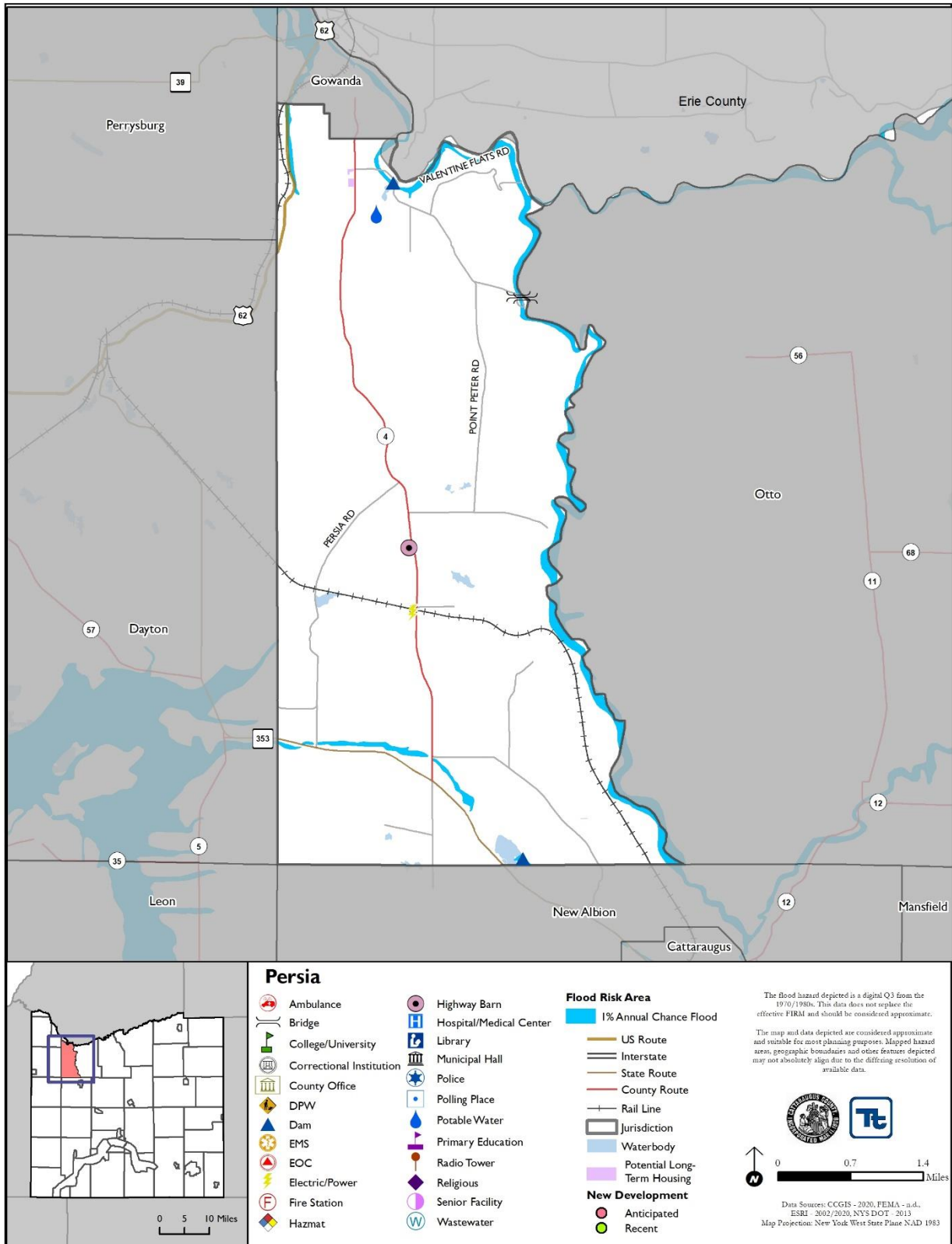
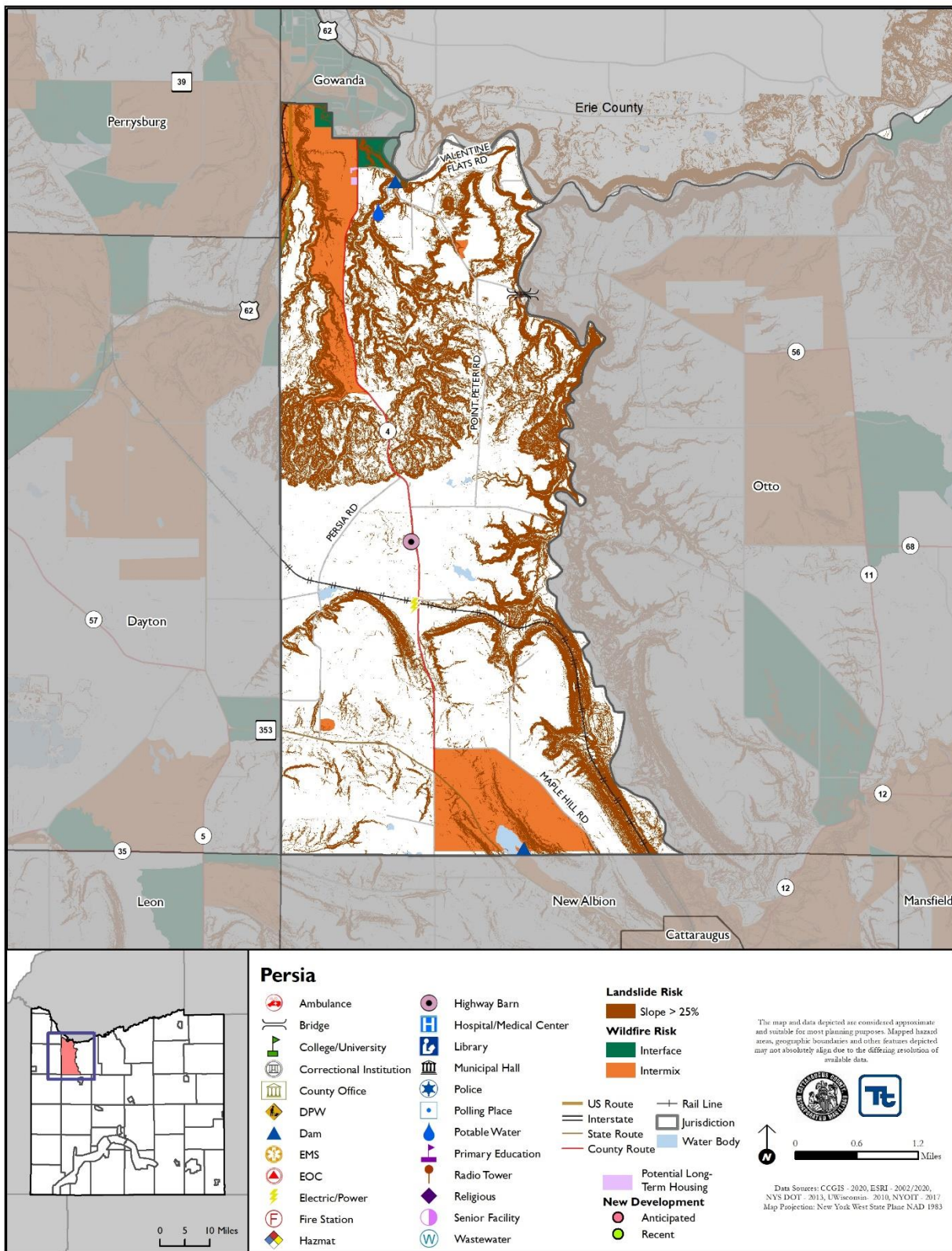




Figure 9.35-2. Town of Persia Hazard Area Extent and Location Map 2





Action Worksheet			
Project Name:	Replace repetitively damaged/undersized culvert in Town of Persia on Hawkins Road		
Project Number:	2020-Persia-001		
Risk / Vulnerability			
Hazard(s) of Concern:	Flood, Severe Storm		
Description of the Problem:	Erosion and washout occur due to a damaged and undersized culvert on Hawkins Road. The Culvert underneath Hawkins Rd is located directly up slope (200' + -) from the Village of Gowanda's drinking water reservoir. If the culvert fails, the ensuing silt, brush etc. would wash down the slope into the villages drinking water system. If enough debris is washed into the reservoir, presumably because of and rain/flood event, it could possibly plug the reservoirs outflow and cause a catastrophic event with the berm, reservoir culvert and Pt. Peter Rd which the culvert flows underneath on its way to the Cattaraugus Creek and Lake Erie.		
Action or Project Intended for Implementation			
Description of the Solution:	The town will complete engineering studies to replace and upsize the repetitively damaged/undersized culvert and complete upstream and downstream improvements. The town will then carry out the identified upgrades.		
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:	\$350,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	2 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:	Replace repetitively damaged/undersized culvert in Town of Persia on Hawkins Road	
Project Number:	2020-Persia-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	0	
Property Protection	1	Project will protect roadway 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 Town Hall and Highway Garages		
Project Number:	2020-Persia-006		
Risk / Vulnerability			
Hazard(s) of Concern:	Severe Storm, Severe Winter Storm, Utility Failure		
Description of the Problem:	Backup power sources are necessary to maintain critical services for critical facilities. DPW/Maintenance facilities require permanent backup power. These facilities are currently serviced by a manual generator.		
Action or Project Intended for Implementation			
Description of the Solution:	The town will research what size generator is necessary to supply backup power to the DPW/Maintenance Facilities. 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 Town Hall and Highway Garages
Useful Life:	20 years	Goals Met:	1
Estimated Cost:	\$50,000 per generator	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:	OEM, 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 Town Hall and Highway Garages	
Project Number:	2020-Persia-006	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Project will protect critical services of Town Hall and Highway Garages
Property Protection	1	Project will protect Town Hall and Highway Garages 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	OEM, DPW
Other Community Objectives	1	
Total	12	
Priority (High/Med/Low)	High	



Action Worksheet			
Project Name:	Salt and Sand Barn		
Project Number:	2020-Persia-009		
Risk / Vulnerability			
Hazard(s) of Concern:	Severe Storm, Winter Storm, Nor'Easter, Groundwater Contamination		
Description of the Problem:	The town requires a sand/salt structure to protect the salt and sand supplies from exposure to precipitation and runoff.		
Action or Project Intended for Implementation			
Description of the Solution:	The town will construct a salt sand barn with a structurally sound and weather-proof structure to protect the town salt and sand supply for winter storm response. The DPW will be responsible for construction and maintenance.		
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 to the 500-year flood event or the actual worse case damage scenario, whichever is greater)			
Level of Protection:	Structure to meet building code	Estimated Benefits (losses avoided):	Continuity of road clearing services in winter, reduction in runoff
Useful Life:	50 years	Goals Met:	1
Estimated Cost:	\$50,000	Mitigation Action Type:	Structure and Infrastructure Project
Plan for Implementation			
Prioritization:	High	Desired Timeframe for Implementation:	Within 1 year
Estimated Time Required for Project Implementation:	3 months	Potential Funding Sources:	FEMA HMGP, BRIC, WQIP, USDA Community Facilities Grant Program, Municipal Budget
Responsible Organization:	DPW	Local Planning Mechanisms to be Used in Implementation if any:	Capital Improvements, Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Hire contractor for roadway treatment	Variable based on rate and number of applications per year; assumed at \$600 per mile	Costly, most contractors are too small to service the entire town
	Contract with neighboring town for roadway treatment	Variable based on rate and number of applications per year; assumed at \$600 per mile	Costly
Progress Report (for plan maintenance)			
Date of Status Report:			
Report of Progress:			
Update Evaluation of the Problem and/or Solution:			



Evaluation and Prioritization		
Project Name:	Salt and Sand Barn	
Project Number:	2020-Persia-009	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Protects continuity of services to keep roadways clear for safe travel and emergency response.
Property Protection	0	
Cost-Effectiveness	1	
Technical	1	The project is technically sound
Political	1	There is public support for the project
Legal	1	The town has the legal authority to complete the project
Fiscal	0	Project requires funding support
Environmental	1	Project will reduce chance of runoff and groundwater contamination
Social	1	
Administrative	1	
Multi-Hazard	1	Severe Storm, Winter Storm, Nor'Easter, Groundwater Contamination
Timeline	1	Within 2 years
Agency Champion	1	DPW
Other Community Objectives	1	Continuity of critical services
Total	12	
Priority (High/Med/Low)	High	