



## 9.26 TOWN OF LYNDON

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

### 9.26.1 Hazard Mitigation Planning Team

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

**Table 9.26-1. Hazard Mitigation Planning Team**

Primary Point of Contact	Alternate Point of Contact
Name/Title: George Schneider Jr/Highway Superintendent Address: 852 Lyndon Center Road, Cuba, NY 14727 Phone Number: (716) 676-9928 Email: lyndonhighway@yahoo.com	Name/Title: Frank Puglisi/Clerk Address: 852 Lyndon Center Road, Cuba, NY 14727 Phone Number: (716) 676-9928 Email:townclerk14737@yahoo.com
NFIP Floodplain Administrator	
Name/Title: Phil Tremblay /Code Enforcement Officer Address:852 Lyndon Center Rd, Cuba, NY 14727 Phone Number: (716) 548-2372 Email: N/A	

### 9.26.2 Municipal Profile

The Town of Lyndon lies on the eastern border of Cattaraugus County in western New York State. The Town of Lyndon has a total area of 33.27 square miles. Gates Creek is a stream that flows out the west town line and Oil Creek is a stream by the east town line. The town is bordered to the north by the Town of Farmersville, the east border is formed by New Hudson in Allegany County, west by the Town of Franklinville, and south by Town of Ischua.

There are two hamlets located within the town: Elgin and Rawson. The estimated 2018 population was 696, a 1.56 percent decrease in population from 2010 (707 persons).

Data from the 2018 U.S. Census American Community Survey indicate that 5.5 percent of the town population is 5 years of age or younger and 15.9 percent is 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 Lyndon was first settled in 1806 and founded in 1829 from a portion of the Town of Franklinville. The North Lyndon Schoolhouse is listed on the National Register of Historical Places.

### 9.26.3 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 9.26-2 summarizes recent and expected future development trends, including major residential/commercial development and major infrastructure development. Figure 9.26-1 at the end of this annex illustrates the geographically delineated hazard areas and the location of potential new development, where available.

**Table 9.26-2. Recent and Expected Future Development**

Type of Development	2014		2015		2016		2017		2018	
<b>Number of Building Permits for New Construction Issued Since the Previous HMP* (within regulatory floodplain/ Outside regulatory floodplain)</b>										
	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>	<b>Total</b>	<b>Within SFHA</b>
Single Family	8	1	6	0	2	0	5	0	7	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
<b>Total</b>	<b>8</b>	<b>1</b>	<b>6</b>	<b>0</b>	<b>2</b>	<b>0</b>	<b>5</b>	<b>0</b>	<b>7</b>	<b>0</b>
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		
<b>Recent Major Development and Infrastructure from 2014 to Present</b>										
N/A										
<b>Known or Anticipated Major Development and Infrastructure in the Next Five (5) Years</b>										
N/A										

SFHA Special Flood Hazard Area (1% flood event)

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

### 9.26.4 Capability Assessment

The Town of Lyndon 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 9.26.4). The Town of Lyndon 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 Lyndon and where hazard mitigation has been integrated.

**Table 9.26-3. 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?
<b>Codes, Ordinances, &amp; Requirements</b>							
Building Code	Yes	NY State Uniform Fire Prevention and Building Code, 1-2006	Local	CEO	Yes	No	2020-Lyndon-012
Comment: none							
Zoning Code	No	-	-	-	No	-	-
Comment: none							
Subdivisions	No	-	-	-	No	-	-
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	No	-	-	-	No	-	-
Comment: None							
Environmental Protection	No	-	-	-	Yes	-	-
Comment: None							
Flood Damage Prevention	Yes	1-1992	Local	CEO	Yes - BFE+2 feet for all construction in the SFHA (residential and non-residential)	No	2020-Lyndon-004
Comment: none							
Municipal Separate Storm Sewer System (MS4)	No	-	-	-	Yes	No	-
Comment: none							



	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?	
Emergency Management	Yes	8/15/2006 EOP	Local	OEM	Yes	No	2020-Lyndon-011
Comment: none							
Climate Change	No	-	-	-	Yes	-	-
Comment: none							
Disaster Recovery Ordinance	No	-	-	-	No	-	-
Comment: None							
Disaster Reconstruction Ordinance	No	-	-	-	No	-	-
Comment: None							
Other	No	-	-	-	-	-	-
<b>Planning Documents</b>							
Comprehensive Plan	No	-	-	-	No	-	-
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	-	-



	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?	
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							
<b>Response/Recovery Planning</b>							
Comprehensive Emergency Management Plan	Yes	CC CEMP	County	CC OES	Yes	No	2020-Lyndon-011
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	Yes	PHEP	County	Health	No	Yes	-
Comment: none							
Other	No	-	-	-	No	-	-

**Table 9.26-4. Development and Permitting Capability**

Indicate if your jurisdiction implements the following	Response Yes/No; Provide further detail
Development Permits. If yes, what department?	Yes Clerk, CEO
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 -20%

**Administrative and Technical Capability**

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





**Table 9.26-5. Administrative and Technical Capabilities**

Resources	Available? (Yes or No)	Department/ Agency/Position
<b>Administrative Capability</b>		
Planning Board	Yes	Town 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	County
Maintenance programs to reduce risk	No	-
Mutual aid agreements	Yes	State, County Highway, Fire
<b>Technical/Staffing Capability</b>		
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	CEO
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 Lyndon.

**Table 9.26-6. Fiscal Capabilities**

Financial Resources	Accessible or Eligible to Use (Yes/No)
Community development Block Grants (CDBG, CDBG-DR)	No
Capital improvements project funding	No
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	Yes
Withhold public expenditures in hazard-prone areas	No
Other federal or state Funding Programs	No
Open Space Acquisition funding programs	No
Other	No



### Education and Outreach Capability

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

**Table 9.26-7. 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.	No
Citizen boards or commissions that address issues related to hazard mitigation; if yes, briefly describe.	No
Other programs already in place that could be used to communicate hazard-related information; if yes, briefly describe.	No
Warning systems for hazard events; if yes, briefly describe.	Yes, the State and County
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 Lyndon.

**Table 9.26-8. 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.



- The town does not currently have access to resources to determine the possible impacts of climate change upon the municipality and would rely on the county.

Table 9.26-9. Adaptive Capacity

Hazard	Adaptive Capacity (Capabilities) - High/Medium/Low
Flood	Medium
Landslide	Medium
Severe Storm	High
Severe Winter Storm	High
Utility Failure	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 Lyndon’s floodplain administrator is Phil Tremblay, the Code Enforcement Officer.

#### National Flood Insurance Program (NFIP) Summary

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

Table 9.26-10. NFIP Summary

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

Source: NYS DHES, 2020  
 RL Repetitive Loss; SRL Severe Repetitive Loss

### Resources

The town’s Code Enforcement Officer is responsible for floodplain management however, there are no certified floodplain managers on staff. The town has access to resources to determine possible future flooding conditions for climate change through DEC. The town’s floodplain management staff needs certification training to support its floodplain management program. NFIP administration services is provided by the Code Enforcement The town did not identify any barriers.

### Compliance History

The most recent Community Assistance Visit (CAV) was on May 12, 2009.

### Regulatory

The Town of Lyndon’s flood damage prevention ordinance does not meet the requirements because it is outdated and does not include the required freeboard.





### Additional Areas of Existing Integration

---

**Town Website:** The Town of Lyndon’s website (<http://lyndontown.org/>) hosts town information 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 identified County roads to State Road 16, 24, 47, 63 as potential evacuation routes to use in the event of an emergency.

#### Sheltering

---

The town identified 828 Fire Department as a potential shelter. It accommodates pets, is ADA compliant, has back up power, and provides basic medical services.

#### Temporary Housing

---

The Town of Lyndon did not identify temporary housing locations. Action 2020-Lyndon-007 was created to identify temporary housing locations.

#### Permanent Housing

---

The Town of Lyndon did not identify permanent housing locations, but the county identified locations shown in Figure 9.26-1 and



Figure 9.26-2.

### 9.26.5 Hazard Event History Specific to the Town of Lyndon

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 Lyndon’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 9.26-11 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 9.26-11. 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 to western and north central New York. Rainfall amounts of two to five inches were measured across the area with some area creeks reaching bankful. The high winds downed trees and power lines throughout the region. Wind gusts were measured to 60 mph.	Although the county was impacted, the Town of Lyndon did not report any damages.
May 13-22, 2014	Severe Storms and Flooding (FEMA-DR-4180)	Yes	Heavy showers and embedded thunderstorms trained across the western Southern tier. Rainfall amounts of one to three inches in just a few hours resulted in flash flooding across the region. Roads and culverts were washed out. Numerous roads were water-covered and closed.	Although the county was impacted, the Town of Lyndon did not report any damages.
November 17-26, 2014	Severe Winter Storm, Snowstorm, and Flooding (FEMA-DR-4204)	Yes	Lake effect snow resulted in heavy snowfall across the region.	Although the county was impacted, the Town of Lyndon did not report any damages.
July 14, 2015	Flash Flood	No	Numerous rounds of storms along a stationary cold front resulted in flash flooding. Damaging winds occurred in some areas of the county.	Although the county was impacted, the Town of Lyndon did not report any damages.
March 8, 2017	High Wind	No	A strong low-pressure system brought strong and damaging winds to the entire region.	Although the county was impacted, the Town of Lyndon did not report any damages.

Notes:

EM Emergency Declaration (FEMA)

FEMA Federal Emergency Management Agency

DR Major Disaster Declaration (FEMA)

N/A Not applicable

### 9.26.6 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 Lyndon’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 Lyndon. The Town of Lyndon 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 Lyndon indicated the following:

- The town decided to change severe storm and severe winter storm from low to high due to recent severe storm and severe winter storm events.

Table 9.26-12. Hazard Ranking Input

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

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

\*The town changed the initial ranking of this hazard based on event history, experience, and feedback

### 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 annual chance 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 9.26-13. Potential Flood Losses to Critical Facilities**

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

Source: Cattaraugus County, 2020

### Identified Issues

The municipality has identified the following vulnerabilities within their community:

- Flooding along Livingston Road
- Reoccurring flooding along Porter Road and Town Line Road
- Outdated town FIRMs
- The Town of Lyndon has an outdated Flood Damage Prevention Ordinance.
- The Town of Lyndon currently does not have a temporary housing location in the event of an emergency.
- Floodplain Administration staff require additional training.
- Additional public education on wildfire risk is needed
- Poor water supply (well water) at highway shop and town offices, which is an emergency shelter
- Debris in streams in ditches throughout the town.
- 20 miles of dirt roads erode during heavy rain events.
- Poor cell service

### 9.26.7 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 9.26-14. 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		
B2.27	Install culvert on Livingston Road	Flood	Town	Undersized culvert pipe	No progress	Cost		Include in 2020 plan, Action 2020- Lyndon-001
						Level of Protection		
						Damages Avoided; Evidence of Success		



### **Completed Mitigation Initiatives Not Identified in the Previous Mitigation Strategy**

The Town of Lyndon 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 Lyndon 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 9.26-15 summarizes the comprehensive range of specific mitigation initiatives the Town of Lyndon 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 9.26-16 provides a summary of the prioritization of all proposed mitigation initiatives for the Plan update.



Table 9.26-15. 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-Lyndon-001	Install culvert on Livingston Road	2	Flood, Severe Storm	<b>Problem:</b> Flooding along Livingston Road. During extreme rain events, washouts on road occur. <b>Solution:</b> Install culvert along road to mitigate flooding.	No	None	Within 5 years	Highway Department	\$6,000	Culvert installed and flood risk reduced	HMGP, BRIC, operating budget	High	SIP	SP
2020-Lyndon-002	Rock line ditches along Porter Road and Town Line Road	2	Flood, Severe Storms	<b>Problem:</b> Reoccurring flooding along Porter Road and Town Line Road <b>Solution:</b> Install rock line ditches to reduce flooding	No	None	Within 1 year	Town, Cattaraugus County, DPW	\$75,000	Proper drainage along Porter Road and Town Line Road	HMGP, BRIC, operating budget	High	SIP	SP
2020-Lyndon-003	Update town FIRMs	1,3	Flood	<b>Problem:</b> Outdated town FIRMs <b>Solution:</b> Update flood hazard mapping in the town	No	None	Within 5 years	Cattaraugus County Soil and Water	\$50,000	Best available flood mapping established	County Budget	High	EAP	PI
2020-Lyndon-004	Update Flood Damage Prevention Ordinance	2	Flood	<b>Problem:</b> The Town of Lyndon has an outdated Flood Damage Prevention Ordinance <b>Solution:</b> The town will develop an updated flood damage prevention ordinance	No	None	Within 6 months	Town board	<\$100	Meet NFIP requirements, buildings built to a higher standard	Town Budget	High	LPR	PR
2020-Lyndon-005	Floodplain Administrator to attend training on floodplain management	3	Flood	<b>Problem:</b> Floodplain Managers require training. Those responsible for floodplain management are lacking in their knowledge of required duties. <b>Solution:</b> Obtain/host training and certification for floodplain managers	No	None	Within 5 years	Cattaraugus County Emergency Management/ Cattaraugus County Codes Department	\$3,000	Certified floodplain managers trained Floodplain management improved.	County budget	High	LPR	PR
2020-Lyndon-006	Provide information to residents,	3	Wildfires	<b>Problem:</b> Additional public education on wildfire risk is needed	No	None	1 year	Town board	\$4,000	Public educated and better	Town budget	High	EAP	PI





Table 9.26-15. 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
	business owners, and organizations about what they can do to prevent their structures from wildfires.			<b>Solution:</b> The town will develop an outreach program to educate the public about wildfires and what they can do to protect their structures.						prepared and protected from hazards				
2020-Lyndon-007	Identify temporary housing location(s) for residents in the event of an emergency.	2	All Hazards	<b>Problem:</b> The Town of Lyndon currently does not have a temporary housing location in the event of an emergency. <b>Solution:</b> The town will confirm locations and notify households and businesses through mailing.	No	None	6 months	Town Supervisor/ Town Clerk	\$250	Temporary housing for populations effected by hazard	Municipal Budget	Med.	EAP	PI
2020-Lyndon-008	Update water supply wells at highway shop and Town offices	2	Utility Failure	<b>Problem:</b> Poor water supply (well water for drinking and bathrooms) at Shop, Town offices, which is an emergency building/shelter <b>Solution:</b> Clean old well out or drill a new well for the Shop and Town offices.	Yes	None	Within 5 years	DPW, Town	\$50,000-80,000	Efficient water supply at Shop and Town	HMGP, Municipal Budget	High	SIP	PP
2020-Lyndon-009	Clean streams and ditches throughout the town	2	Flood, Severe storm	<b>Problem:</b> Debris in streams and ditches throughout the town causing flooding. <b>Solution:</b> Develop a stream maintenance program to clear out debris in streams and ditches regularly to prevent flooding	No	None	Within 1 year	DPW, Highway Department	\$1,000	Streams and ditches cleared mitigating flood risk	HMGP, Operating Budget	High	SIP	SP





Table 9.26-15. 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-Lyndon-010	Pave 20 miles of dirt roads throughout the town	2	Flood, Severe Storm	<b>Problem:</b> 20 miles of dirt roads erode during heavy rain events.	No	None	Within 5 years	Highway Department	\$75,000	Roads protected from eroding	HMGP, Operating budget	High	SIP	PR
				<b>Solution:</b> Pave dirt roads that are prone to flooding/eroding.										
2020-Lyndon-011	Update the Emergency Operations Plan.	2	All Hazards	<b>Problem:</b> Outdated Emergency Operations Plan	No	None	Within 1 year	County, Town	<\$100	EOPs updated	Municipal budget	High	LPR	ES
				<b>Solution:</b> Update town's Emergency Operation Plan to include current hazards.										
2020-Lyndon-012	Update Building Code	2	All Hazards	<b>Problem:</b> Building codes are outdated.	No	None	Within 1 year	County, Town	<\$100	Building Codes to provide standards to protect buildings from hazards	Municipal Budget	High	LPR	PP
				<b>Solution:</b> Update building codes so buildings are built to withstand hazards they face.										
2020-Lyndon-013	Update cell service	2	Utility Failure	<b>Problem:</b> Slow or no cell service or internet service for emergencies.	No	None	Within 5 years	Town	<\$100 to work with telecommunications companies	The town has reliable cell service and internet especially in the event of emergencies	Municipal budget	Med.	SIP	PR
				<b>Solution:</b> The town will work with telecommunications companies to install towers.										

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

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.






- FEMA Federal Emergency Management Agency
- FPA Floodplain Administrator
- HMA Hazard Mitigation Assistance
- Med. Medium
- N/A Not applicable
- NFIP National Flood Insurance Program
- OEM Office of Emergency Management

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 9.26-16. 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- Lyndon-001	Install culvert on Livingston Road	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020- Lyndon-002	Rock line ditches along Porter Road and Town Line Road	1	1	1	1	1	1	0	1	1	1	1	0	1	1	12	High
2020- Lyndon-003	Update town FIRMs	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020- Lyndon-004	Update Flood Damage Prevention Ordinance	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020- Lyndon-005	Floodplain Administrator to attend training on floodplain management	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020- Lyndon-006	Provide information to residents, business owners, and organizations about what they can do to prevent their structures from wildfires.	1	1	1	1	1	1	1	1	1	1	0	1	1	1	13	High
2020- Lyndon-007	Identify temporary housing location(s) for residents in the event of an emergency.	1	0	1	1	1	1	0	0	1	1	1	0	0	1	9	Medium
2020- Lyndon-008	Update water supply wells at highway shop and Town offices	1	1	1	1	1	0	0	1	1	1	0	1	0	1	10	High
2020- Lyndon-009	Clean streams and ditches throughout the town	1	1	1	1	1	1	0	1	1	1	1	1	1	0	12	High
2020- Lyndon-010	Pave 20 miles of dirt roads throughout the town	1	1	1	1	1	1	0	1	1	1	1	0	0	1	11	High
2020- Lyndon-011	Update the Emergency Operations Plan.	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020- Lyndon-012	Update Building Code	0	1	1	1	1	1	1	1	1	1	0	1	1	1	12	High
2020-Lyndon-013	Update cell service	1	0	1	1	1	0	0	0	1	1	0	0	0	0	6	Medium

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





### 9.26.8 Proposed Mitigation Action Types

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

Table 9.26-17. 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
Landslide	X	X			X	X				X
Severe Storm	X	X				X			X	X
Severe Winter Storm	X	X				X				X
Utility Failure	X	X				X	X			X
Wildfire	X	X		X		X	X			X

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

### 9.26.9 Staff and Local Stakeholder Involvement in Annex Development

The Town of Lyndon 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. The Highway Superintendent 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 (Meetings).

### 9.26.10 Hazard Area Extent and Location

Hazard area extent and location maps have been generated for the Town of Lyndon that illustrates 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 is 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 Lyndon has significant exposure. The maps are illustrated below.



Figure 9.26-1. Town of Lyndon Hazard Area Extent and Location Map 1

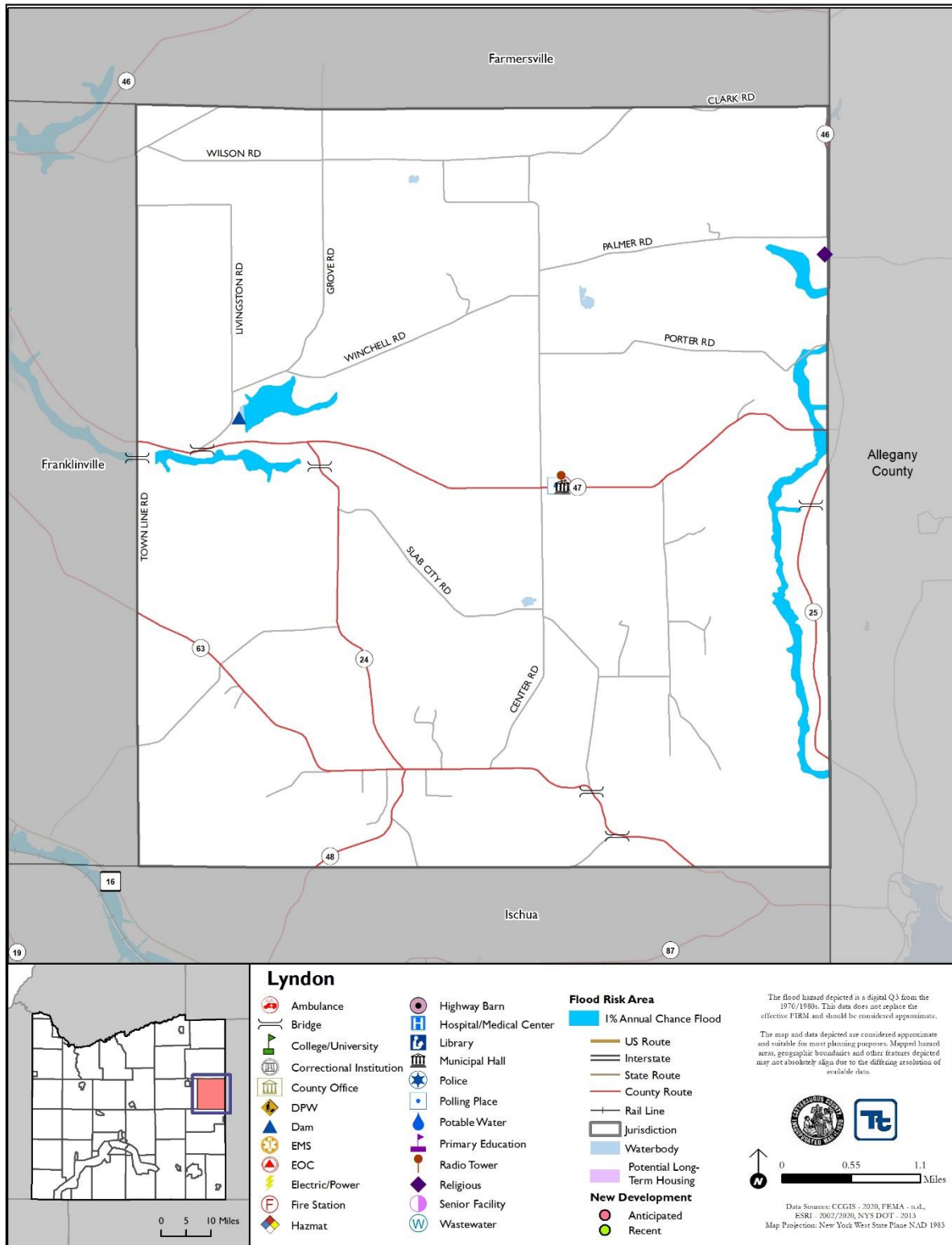
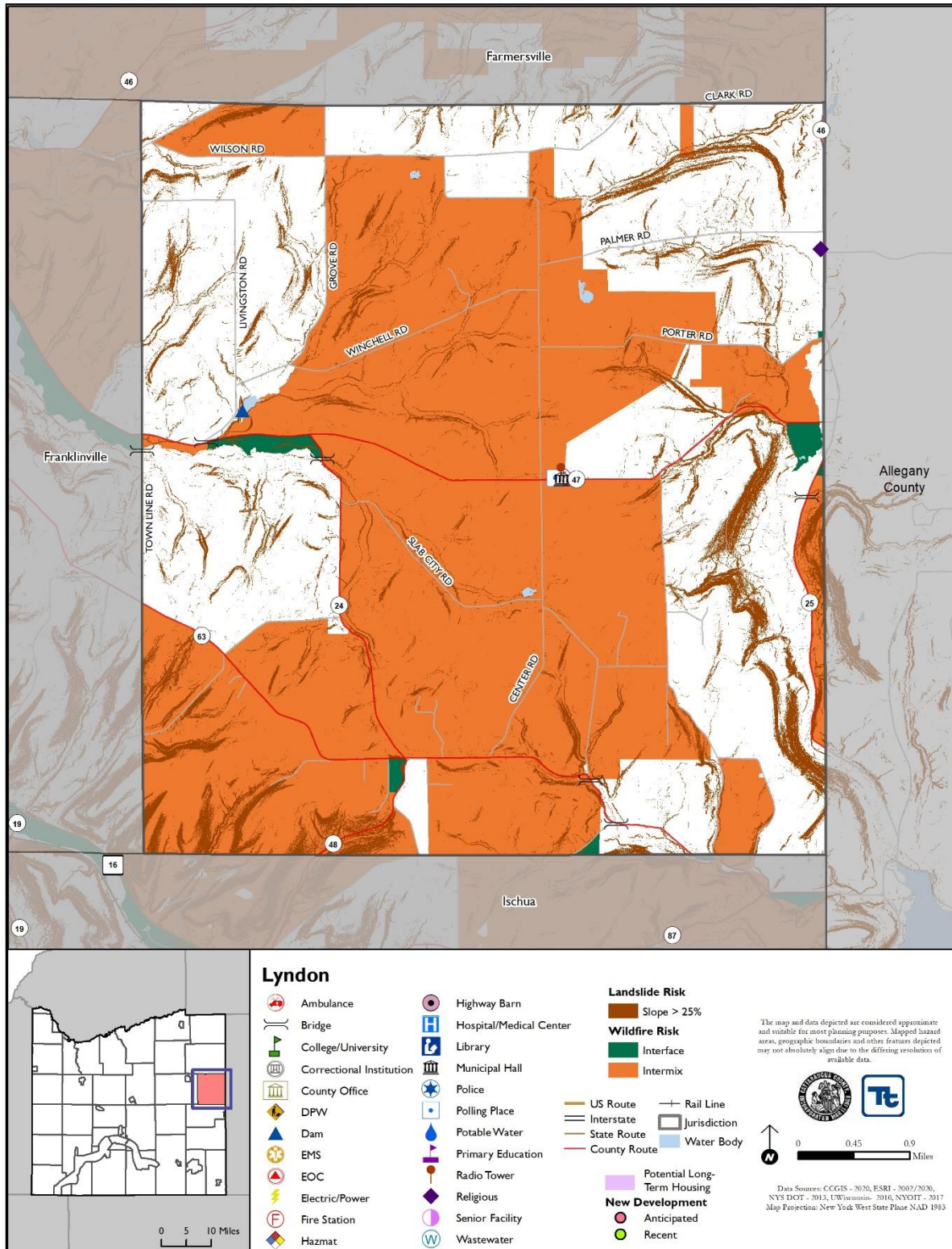




Figure 9.26-2. Town of Lyndon Hazard Area Extent and Location Map 2





Town of Lyndon Action Worksheet			
<b>Project Name:</b>	Install culvert on Livingston Road		
<b>Project Number:</b>	2020- Lyndon-001		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Flood, Severe Storm		
<b>Description of the Problem:</b>	Flooding along Livingston Road. During extreme rain events, washouts on road occur.		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	Install a culvert along road to mitigate flooding.		
<b>Is this project related to a Critical Facility?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Is this project related to a Critical Facility located within the 100-year floodplain?</b>	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)			
<b>Level of Protection:</b>	To be determined	<b>Estimated Benefits (losses avoided):</b>	Culvert installed and flood risk reduced
<b>Useful Life:</b>	30 years	<b>Goals Met:</b>	2
<b>Estimated Cost:</b>	\$6,000	<b>Mitigation Action Type:</b>	Structure and Infrastructure
<b>Plan for Implementation</b>			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within 5 years
<b>Estimated Time Required for Project Implementation:</b>	1 year	<b>Potential Funding Sources:</b>	HMGP, BRIC, operating budget
<b>Responsible Organization:</b>	Highway Department	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation
<b>Three Alternatives Considered (including No Action)</b>			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	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
<b>Progress Report (for plan maintenance)</b>			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Install culvert on Livingston Road	
<b>Project Number:</b>	2020- Lyndon-001	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
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	Highway Department
Other Community Objectives	1	
<b>Total</b>	12	
<b>Priority (High/Med/Low)</b>	High	





Town of Lyndon Action Worksheet			
<b>Project Name:</b>	Rock line ditches along Porter Road and Town Line Road		
<b>Project Number:</b>	2020- Lyndon-002		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Flood, Severe Storm		
<b>Description of the Problem:</b>	Reoccurring flooding along Porter Road and Town Line Road		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	Install rock line ditches to reduce flooding		
<b>Is this project related to a Critical Facility?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Is this project related to a Critical Facility located within the 100-year floodplain?</b>	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)			
<b>Level of Protection:</b>	N/A	<b>Estimated Benefits (losses avoided):</b>	Proper drainage along Porter Road and Town Line Road
<b>Useful Life:</b>	30 years	<b>Goals Met:</b>	2
<b>Estimated Cost:</b>	\$75,000	<b>Mitigation Action Type:</b>	Structure and Infrastructure
<b>Plan for Implementation</b>			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within 5 years
<b>Estimated Time Required for Project Implementation:</b>	Within 1 year	<b>Potential Funding Sources:</b>	HMGP, BRIC, operating budget
<b>Responsible Organization:</b>	Town, Cattaraugus County, DPW	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation
<b>Three Alternatives Considered (including No Action)</b>			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	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
<b>Progress Report (for plan maintenance)</b>			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Rock line ditches along Porter Road and Town Line Road	
<b>Project Number:</b>	2020- Lyndon-002	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	
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	Highway Department
Other Community Objectives	1	
<b>Total</b>	12	
<b>Priority (High/Med/Low)</b>	High	



Town of Lyndon Action Worksheet			
<b>Project Name:</b>	Update water supply wells at highway shop and Town offices		
<b>Project Number:</b>	2020- Lyndon-008		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Utility Failure		
<b>Description of the Problem:</b>	Poor water supply (well water for drinking and bathrooms) at Shop, Town offices, which is an emergency building/shelter		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	Clean old well out or drill a new well for the Shop and Town offices		
<b>Is this project related to a Critical Facility?</b>	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
<b>Is this project related to a Critical Facility located within the 100-year floodplain?</b>	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)			
<b>Level of Protection:</b>	N/A	<b>Estimated Benefits (losses avoided):</b>	Efficient water supply at Shop and Town
<b>Useful Life:</b>	100 years	<b>Goals Met:</b>	2
<b>Estimated Cost:</b>	\$50,000-80,000	<b>Mitigation Action Type:</b>	Structure and Infrastructure
<b>Plan for Implementation</b>			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within 5 years
<b>Estimated Time Required for Project Implementation:</b>	5 years	<b>Potential Funding Sources:</b>	HMGP, municipal budget
<b>Responsible Organization:</b>	DPW, Town	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation
<b>Three Alternatives Considered (including No Action)</b>			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	Problem continues.
	Only update water infrastructure	N/A	Water and wastewater infrastructure are both outdated and need updated
	Increase chlorine in water to prevent bacteria growth	N/A	Not feasible, still have outdated infrastructure
<b>Progress Report (for plan maintenance)</b>			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Update water supply wells at highway shop and Town offices	
<b>Project Number:</b>	2020- Lyndon-008	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Water supply infrastructure upgraded
Property Protection	1	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	0	
Fiscal	0	
Environmental	1	Updated wastewater infrastructure, preventing spills into the environment
Social	1	Public supports this project
Administrative	1	
Multi-Hazard	0	Utility Failure
Timeline	1	
Agency Champion	0	
Other Community Objectives	1	Viable shelter in the event of an emergency,
<b>Total</b>	10	
<b>Priority (High/Med/Low)</b>	High	



Town of Lyndon Action Worksheet			
<b>Project Name:</b>	Clean streams and ditches throughout the town		
<b>Project Number:</b>	2020- Lyndon-009		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Flood, Severe Storm		
<b>Description of the Problem:</b>	Debris in streams and ditches throughout the town causing flooding		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	Develop a stream maintenance program to clear out debris in streams and ditches regularly to prevent flooding.		
<b>Is this project related to a Critical Facility?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Is this project related to a Critical Facility located within the 100-year floodplain?</b>	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)			
<b>Level of Protection:</b>	N/A	<b>Estimated Benefits (losses avoided):</b>	Streams and ditches cleared out, mitigating flood risk
<b>Useful Life:</b>	N/A	<b>Goals Met:</b>	2
<b>Estimated Cost:</b>	\$1,000	<b>Mitigation Action Type:</b>	Structure and Infrastructure
<b>Plan for Implementation</b>			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within 1 year
<b>Estimated Time Required for Project Implementation:</b>	1 year	<b>Potential Funding Sources:</b>	HMGP, operating budget
<b>Responsible Organization:</b>	DPW, Highway Department	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation
<b>Three Alternatives Considered (including No Action)</b>			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	Problem continues.
	Install Culvert	\$15,000-30,000	Costly
	Abandon road	N/A	Roadway needs to be maintained for access
<b>Progress Report (for plan maintenance)</b>			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Clean streams and ditches throughout the town	
<b>Project Number:</b>	2020- Lyndon-009	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Travelers on roads near streams and ditches protected from flooding
Property Protection	1	Project will protect roadway from flooding
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The town has the legal authority to complete the project.
Fiscal	0	
Environmental	1	
Social	1	
Administrative	1	
Multi-Hazard	1	Flood, severe storm
Timeline	1	Within 1 year
Agency Champion	1	
Other Community Objectives	0	
<b>Total</b>	12	
<b>Priority (High/Med/Low)</b>	High	



Town of Lyndon Action Worksheet			
<b>Project Name:</b>	Pave 20 miles of dirt roads throughout the town		
<b>Project Number:</b>	2020- Lyndon-010		
Risk / Vulnerability			
<b>Hazard(s) of Concern:</b>	Flood, Severe Storms		
<b>Description of the Problem:</b>	20 miles of dirt roads erode during heavy rain events		
Action or Project Intended for Implementation			
<b>Description of the Solution:</b>	Determine which dirt roads to pave that are prone to flooding/eroding		
<b>Is this project related to a Critical Facility?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Is this project related to a Critical Facility located within the 100-year floodplain?</b>	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)			
<b>Level of Protection:</b>	N/A	<b>Estimated Benefits (losses avoided):</b>	Roads protected from eroding
<b>Useful Life:</b>	50 years	<b>Goals Met:</b>	2
<b>Estimated Cost:</b>	\$1,000	<b>Mitigation Action Type:</b>	Structure and Infrastructure
Plan for Implementation			
<b>Prioritization:</b>	High	<b>Desired Timeframe for Implementation:</b>	Within 5 years
<b>Estimated Time Required for Project Implementation:</b>	5 years	<b>Potential Funding Sources:</b>	HMGP, operating budget
<b>Responsible Organization:</b>	Highway Department	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation
Three Alternatives Considered (including No Action)			
Alternatives:	Action	Estimated Cost	Evaluation
	No Action	\$0	Problem continues.
	Relocate road to other location	N/A	Roadway will still need to cross streams and low-lying areas.
Abandon road	N/A	Roadway needs to be maintained for access	
Progress Report (for plan maintenance)			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Pave 20 miles of dirt roads throughout the town	
<b>Project Number:</b>	2020- Lyndon-010	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Travelers on roads will be protected from flooding roads
Property Protection	1	Project will protect roadway from being washed out
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	1	The town has the legal authority to complete the project.
Fiscal	0	
Environmental	1	
Social	1	Public support for this project.
Administrative	1	
Multi-Hazard	1	
Timeline	0	Within 5 years
Agency Champion	0	
Other Community Objectives	1	
<b>Total</b>	11	
<b>Priority (High/Med/Low)</b>	High	





Town of Lyndon Action Worksheet			
<b>Project Name:</b>	Update cell service		
<b>Project Number:</b>	2020- Lyndon-013		
<b>Risk / Vulnerability</b>			
<b>Hazard(s) of Concern:</b>	Utility Failure		
<b>Description of the Problem:</b>	Slow or no cell service or internet service for emergencies		
<b>Action or Project Intended for Implementation</b>			
<b>Description of the Solution:</b>	The town will work with telecommunications companies to install towers.		
<b>Is this project related to a Critical Facility?</b>	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
<b>Is this project related to a Critical Facility located within the 100-year floodplain?</b>	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)			
<b>Level of Protection:</b>	N/A	<b>Estimated Benefits (losses avoided):</b>	The town has reliable cell service and internet especially in the event of emergencies
<b>Useful Life:</b>	50 years	<b>Goals Met:</b>	2
<b>Estimated Cost:</b>	<\$100 to work with telecommunications companies	<b>Mitigation Action Type:</b>	Structure and Infrastructure
<b>Plan for Implementation</b>			
<b>Prioritization:</b>	Medium	<b>Desired Timeframe for Implementation:</b>	5 years
<b>Estimated Time Required for Project Implementation:</b>	5 years	<b>Potential Funding Sources:</b>	Municipal Budget
<b>Responsible Organization:</b>	Town	<b>Local Planning Mechanisms to be Used in Implementation if any:</b>	Hazard Mitigation
<b>Three Alternatives Considered (including No Action)</b>			
<b>Alternatives:</b>	<b>Action</b>	<b>Estimated Cost</b>	<b>Evaluation</b>
	No Action	\$0	Problem continues.
	Town will install own towers	\$100,000	Costly, not reliable
	N/A	N/A	N/A
<b>Progress Report (for plan maintenance)</b>			
<b>Date of Status Report:</b>			
<b>Report of Progress:</b>			
<b>Update Evaluation of the Problem and/or Solution:</b>			



Action Worksheet		
<b>Project Name:</b>	Update cell service	
<b>Project Number:</b>	2020- Lyndon-013	
Criteria	Numeric Rank (-1, 0, 1)	Provide brief rationale for numeric rank when appropriate
Life Safety	1	Emergency services will have reliable cell phone service
Property Protection	0	
Cost-Effectiveness	1	
Technical	1	
Political	1	
Legal	0	
Fiscal	0	Project requires funding support.
Environmental	0	
Social	1	Public support for this project.
Administrative	1	
Multi-Hazard	0	Utility Failure
Timeline	0	Within 5 years
Agency Champion	0	
Other Community Objectives	0	
<b>Total</b>	6	
<b>Priority (High/Med/Low)</b>	Medium	