

# ANNEX S: TOWN OF NORTHUMBERLAND

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*The Saratoga County Hazard Mitigation Action Plan Update 2025 relates to the multiple jurisdictions therein from a county wide perspective. The shared plan includes the detailed hazard identification and risk assessment, a complete hazard event history, climate change trends and future impacts, location maps, extent tables and summary statements on both probability and potential severity. This annex is supplemental data provided specific to the municipality herein and focuses on the unique local risks and mitigation strategies.*

## JURISDICTION PROFILE

### OVERVIEW

The Town of Northumberland is located in Saratoga County, New York, with a population of 5,245. The Town of Northumberland is bounded by the towns of Moreau, Saratoga, Wilton and the Hudson River. Immediately north of Schuylerville and northeast of Saratoga Springs. According to the United States Census Bureau, the town has a total area of 32.9 square miles, of which 32.3 square miles is land and 0.6 square miles (1.67%) is water. The eastern town line is the border of Washington County and is located on the west bank of the Hudson River. Figure S-1 shows the general location of the Town of Northumberland.

## TOWN OF NORTHUMBERLAND CONTACT INFORMATION

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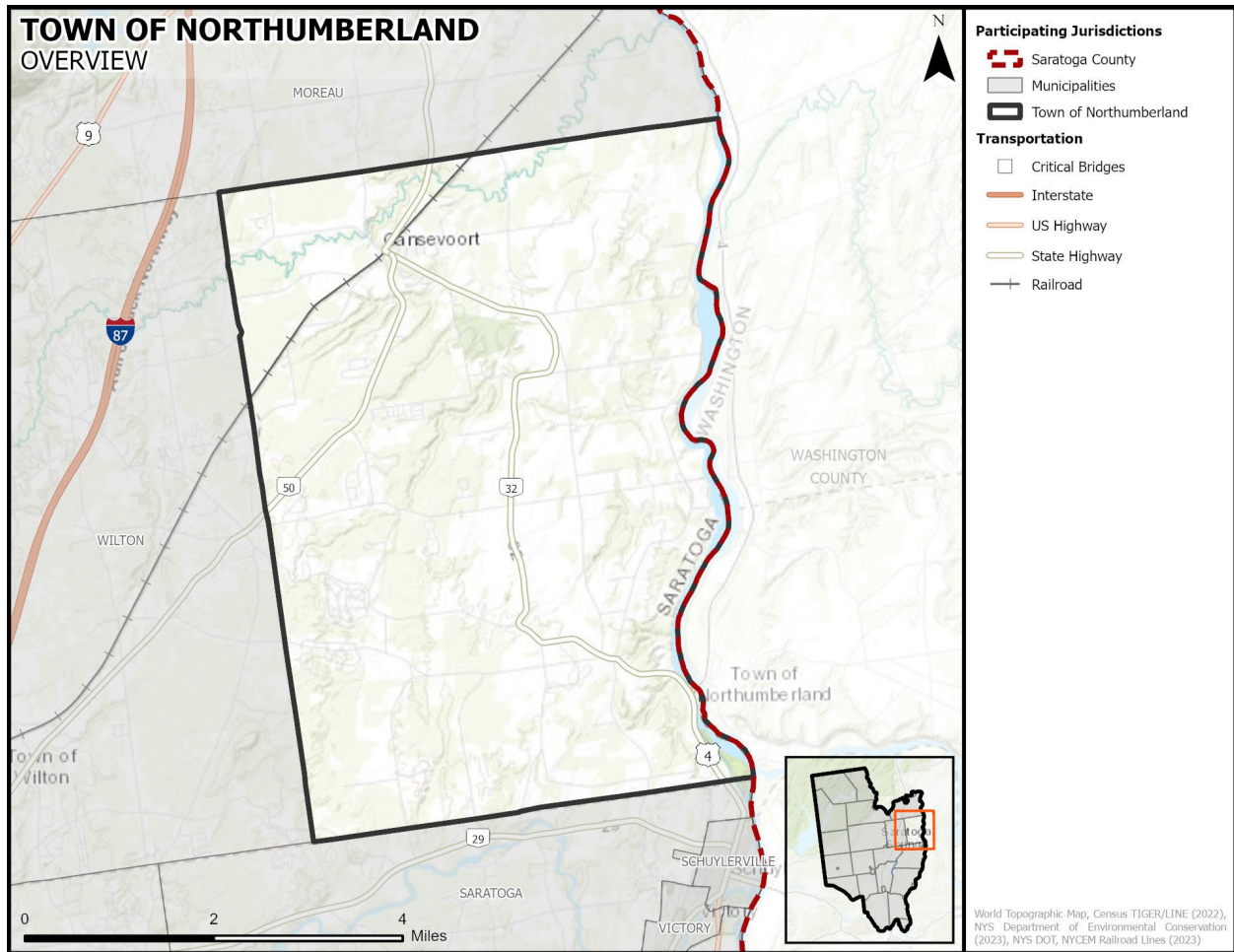
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**Figure S-1. Town of Northumberland Planning Area**



## POPULATION AND DEMOGRAPHICS

According to the 2020 Census population count, the Town of Northumberland has an official population of 5,242 residents, a 3 percent increase since the 2010 census. Table S-1 shows the population distribution in the Town of Northumberland in 2010, 2020 (Census population count), and 2022 (2022 American Community Survey (ACS) five-year estimates. Note that in some cases the 2022 ACS estimates may differ from the 2020 Census count; the ACS estimates are used throughout this section for consistency.<sup>1</sup>

**Table S-1. Population Distribution for the Town of Northumberland**

JURISDICTION	TOTAL 2010 POPULATION	TOTAL 2020 POPULATION (Census)	TOTAL 2022 POPULATION (ACS Estimates)	PERCENTAGE CHANGE 2010-2022
Town of Northumberland	5,087	5,242	5,245	3%

<sup>1</sup> Source: <https://demographics.texas.gov/Data/Decennial/2010/>, <https://www.census.gov/en.html> and <https://www.census.gov/acs/www/data/data-tables-and-tools/data-profiles/2022/>

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Table S-2 summarizes select characteristics of vulnerable or sensitive populations in the Town of Northumberland using data from the U.S. Census Bureau 2022 American Community Survey (ACS) five-year estimates.

Between official U.S. Census population counts, the estimate uses a formula based on new residential building permits and household size. It is simply an estimate and there are many variables involved in achieving an accurate estimation of people living in a given area at a given time.

**Table S-2. Populations at Greater Risk for the Town of Northumberland**

JURISDICTION	65 AND OLDER	UNDER 5	WITH A DISABILITY	BELOW POVERTY LEVEL	LIMITED ENGLISH SPEAKING
Town of Northumberland	822	259	541	330	126

### POPULATION GROWTH

The official 2020 Town of Northumberland population is 5,242. Overall, the Town of Northumberland experienced an increase in population between 1990 and 2020 of 44 percent, or an increase of 1,597 residents. Between 2010 and 2020, the Town of Northumberland experienced a population growth. Table S-3 provides historic change rates in the Town of Northumberland.

**Table S-3. Population Growth for the Town of Northumberland, 1980-2020<sup>2</sup>**

JURISDICTION	1990 <sup>3</sup>	2000 <sup>4</sup>	2010	2020	POP CHANGE 1990-2020	PERCENT OF CHANGE	POP CHANGE 2010-2020	PERCENT OF CHANGE
Town of Northumberland	3,645	4,603	5,087	5,242	1,597	44%	155	3%

### EXISTING LAND USE AND DEVELOPMENT TRENDS

A review of building permits can also give a picture of the built environment and the number of buildings that are being constructed in the Town of Northumberland. Table S-4 lists the number of residential buildings and total units authorized through a permit from the Town of Northumberland, where data was available, between 2019 and 2023.

**Table S-4. Building Permits for the Town of Northumberland, 2019-2023<sup>5</sup>**

JURISDICTION	2019		2020		2021		2022		2023	
	Total Buildings	Total Units	Total Buildings	Total Units	Total Buildings	Total Units	Total Buildings	Total Units	Total Buildings	Total Units
Town of Northumberland	8	8	6	6	7	7	0	0	6	6

<sup>2</sup> U.S. Census Bureau

<sup>3</sup> Source: <https://www2.census.gov/library/publications/decennial/1990/cp-1/cp-1-34-2.pdf?#>

<sup>4</sup> Source: <https://www2.census.gov/library/publications/2001/compendia/ccdb00/2000ccdb.pdf>

<sup>5</sup> U.S. Census Bureau, Building Permit Survey, 1992-2022, <https://www.census.gov/construction/bps/>

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Certain types of housing found in the Town of Northumberland are more vulnerable than typical site-built, newly constructed residential structures. This includes mobile or manufactured homes, and single-family residences (SFR) that are built before 1980, as they are typically built to lower or less stringent construction standards than newer construction. Table S-5 includes housing inventory data for the Town of Northumberland per the American Community Survey five-year estimates.

**Table S-5. Housing Inventory and Vulnerable Structures, for the Town of Northumberland<sup>6</sup>**

JURISDICTION	TOTAL HOUSING UNITS	BUILT PRIOR TO 1980	MOBILE HOMES
Town of Northumberland	1,970	528	499

### CHANGES IN VULNERABILITY

The Town of Northumberland has experienced an increase in overall population of 3 percent between 2010 and 2020. The American Community Survey estimates the 2022 total housing units for the Town of Northumberland to be 1,970. The total building permits issued between 2019 and 2023 represent approximately 1.37 percent of the total housing units available in the Town of Northumberland. The overall population increase, combined with the increase in housing units indicates a slight increase in vulnerability to all hazards in terms of populations and the built environment.

**Table S-6. Changes in Vulnerability, for the Town of Northumberland**

JURISDICTION	POPULATION TREND	HOUSING TREND	OVERALL VULNERABILITY CHANGES
Town of Northumberland	Increasing	Stagnant	Slight Increase

Table S-7 lists the total number of building permits issued in the Town of Northumberland from 2019-2023, including the number of permits issued in the Special Flood Hazard Area and the percentage of SFHA permits issued overall.

**Table S-7. Building Permits, Town of Northumberland, 2019-2023**

JURISDICTION	TOTAL BUILDING PERMITS	SFHA PERMITS	PERCENT OF PERMITS IN SFHA
Town of Northumberland	27	0	0

No permits were issued in the SFHA during that same time period, indicating no increase in flood risk due to new development.

Changes in vulnerability are applicable to all natural hazards except when discussing dam failure as vulnerability for this hazard is discussed in relation to changes in the estimated inundation areas for profiled dams. The Town of Northumberland does not own any dams and is not located

<sup>6</sup> The Housing Inventory and Vulnerable Structures are based off the 2022 American Community Survey 5-Year Estimates Data Profiles.

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in any estimated dam inundation areas, therefore changes in vulnerability in the estimated inundation areas for profiled dams does not pertain to the Town of Northumberland. While flood and wildfire hazards feature geographical boundaries, increases in population and building inventory can increase overall vulnerability for these hazards even when the trends occur outside of the known hazard boundary. Development decreases permeable surface areas and increases runoff, increasing flood risk. As population density increases, the Wildland Urban Interface (WUI) typically increases. WUI growth often results in more wildfire ignitions, which puts more houses and lives at risk.

### FUTURE DEVELOPMENT

To better understand how future growth and development in the Town of Northumberland might affect hazard vulnerability, it is useful to consider population growth, occupied and vacant land, the potential for future development in hazard areas, and current planning and growth management efforts. This section includes an analysis of the projected population change, and economic impacts.

Population projections from 2010 to 2040 are listed in Table S-8, as provided Cornell University's Program on Applied Demographics<sup>7</sup>. **This information is only available at the County level;** however, the population projection shows an increase in population density for the County, which would mean an overall increase for the planning area.

**Table S-8. Saratoga County Population Projections**

LAND AREA (square miles)	2010		2020		2030		2040	
	Population							
	Total Number	Density (Land Area, sq. miles)	Total Number	Density (Land Area, sq. miles)	Total Number	Density (Land Area, sq. miles)	Total Number	Density (Land Area, sq. miles)
810	219,607	271.12	234,009	288.90	246,743	304.62	252,521	311.75

### PLAN MAINTENANCE

The Saratoga County Hazard Mitigation Plan Update provides explanation on how each participating jurisdiction will be involved in implementing, evaluating, and enhancing the Plan over time. Please see Section 24 of this Plan for additional information regarding plan maintenance for the entire planning area.

Periodic revisions of the Plan are required to ensure that goals, objectives, and mitigation actions are kept current. When the plan is discussed in these sections it includes the risk assessment and mitigation actions as a part of the monitoring, evaluating, updating and review process. Revisions may be required to ensure the Plan remains in compliance with federal and state statutes and regulations. Table S-9 indicates the department and title of the party responsible for Plan monitoring, evaluating, updating, and review of the Plan.

<sup>7</sup> Source: <https://pad.human.cornell.edu/counties/projections.cfm>

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**Table S-9. Team Member Responsible for Plan Monitoring, Evaluating, Updating, and Review of the Plan**

JURISDICTION	TITLE
Town of Northumberland	Town Supervisor

### PUBLIC PARTICIPATION

A series of public meetings were held throughout the Saratoga County planning area to collect public and stakeholder input. Topics of discussion included the purpose of hazard mitigation, discussion of the planning process, and types of natural hazards. In addition, a public survey was developed to solicit public input during the planning process from citizens and stakeholders and to obtain data regarding the identification of any potential hazard mitigation actions or problem areas. The survey was promoted by local officials and a link to the survey was posted on the Town of Northumberland’s website. A total of two surveys were completed for the Town of Northumberland. Additional meeting documentation and survey results can be viewed in Appendix E and Appendix B, respectively.

The draft Plan was made available to the general public for review and comment on Saratoga County’s website for 30 days. To ensure opportunities are given to all citizens including those without internet access, a paper copy of the draft plan annexes was also available at municipal offices and public library locations with a comment form that included an email and phone number for the public to provide feedback. Refer to Section 2 for additional information on public involvement in the planning process.

Public input was an integral part of the preparation of this Plan and will continue to be essential for Plan updates. The public will be directly involved in the annual evaluation, monitoring, reviews and cyclical updates. Changes or suggestions to improve or update the Plan will provide opportunities for additional public input. The public can review the Plan on the Town of Northumberland’s website, where officials and the public are invited to provide ongoing feedback, via email.

The Planning Team is responsible for notifying stakeholders and community members on an annual basis and maintaining the Plan. Media, including local newspaper and radio stations, will be used to notify the public of any maintenance or periodic review activities during the implementation, monitoring, and evaluation phases. Additionally, local news media will be contacted to cover information regarding Plan updates, status of grant applications, and project implementation. Local and social media outlets, such as Facebook and Instagram, will keep the public and stakeholders apprised of potential opportunities to fund and implement mitigation projects identified in the Plan.

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### HAZARD PROFILES

#### DAM FAILURE

The Town of Northumberland is not profiling dam failure. The community does not own any dams and is not located in any estimated dam inundation zones. Dam failure has not impacted the community in the past and is not anticipated to impact the community in the future. Any localized flooding the community may experience due to a dam breach is addressed in the flood hazard profile. Therefore, this hazard does not require further analysis.



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## DROUGHT

### HAZARD DESCRIPTION, LOCATION, EXTENT, & HISTORICAL OCCURRENCES

The Saratoga County Hazard Mitigation Plan Update provides a hazard description, location, and extent of the drought hazard for each participating jurisdiction (Section 6). Drought conditions are not confined to specific geographic boundaries and are considered similar for all participating jurisdictions throughout the planning area. Historical drought data for the County, including the Town of Northumberland, are provided on a County-wide basis per the NCEI database. Therefore, all historical events are listed in Section 6 of the Plan Update.

### PROBABILITY OF FUTURE EVENTS

According to historical records for the Saratoga County planning area, the Town of Northumberland can expect to experience a drought event approximately once every one to two years. This frequency supports a “Highly Likely” probability of future events.

### VULNERABILITY AND IMPACT

While the entirety of the Saratoga County planning area, including the Town of Northumberland, is exposed to drought events, existing buildings, infrastructure, and critical facilities are not likely to sustain significant damage from these events. However, drought impacts are mostly experienced in water shortages, breaks in water lines, or crop and livestock losses on agricultural lands and typically have minimal impact on buildings.

The Town of Northumberland planning team members identified critical facilities as assets that are considered the most important to the planning area and are susceptible to a range of potential hazard impacts caused by drought events. Drought impacts to critical facilities are similar across the entire planning area and are listed in detail in the drought hazard profile (Section 6). The following critical facilities would be vulnerable to drought events in the Town of Northumberland:

**Table S-10. Critical Facilities at Risk**

JURISDICTION	CRITICAL FACILITIES
Town of Northumberland	2 Fire Stations, 1 Municipal Facility, 1 Police Station

The population over 65 in the Town of Northumberland is estimated at 15.7 percent of the Town’s total population and children under the age of 5 are estimated at 4.9 percent. The population with a disability is estimated at 10.3 percent of the Town’s total population. An estimated 6.3 percent of the Town of Northumberland’s population live below the poverty level and 2.4 percent of the populations speak a language other than English (Table S-11).

**Table S-11. Populations at Greater Risk**

JURISDICTION	65 AND OLDER	UNDER 5	WITH A DISABILITY	BELOW POVERTY LEVEL	LIMITED ENGLISH SPEAKING
Town of Northumberland	822	259	541	330	126

Historic losses are reported on a county-wide basis. Please see Section 6 of this Plan for additional information on historical and annualized losses for the entire planning area.

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## EARTHQUAKE

### *HAZARD DESCRIPTION, LOCATION, EXTENT, & HISTORICAL OCCURRENCES*

The Saratoga County Hazard Mitigation Plan Update provides a hazard description, location, and extent of the earthquake hazard for each participating jurisdiction (Section 7). The concentration of earthquakes in New York State is located in three general regions. The Saratoga Planning area is located in one of these general regions that includes the northeast third of the State. There is no geographic boundary to the hazard within the planning area therefore the risk is considered similar for all participating jurisdictions throughout Saratoga County. Historical earthquake data for the County, including the Town of Northumberland, are provided on a County-wide basis per the USGS database. Therefore, all historical events are listed in Section 7 of the Plan Update.

### *PROBABILITY OF FUTURE EVENTS*

According to the USGS, the entire Saratoga County planning area, including Town of Northumberland, has a five to twenty-five percent chance of a slightly damaging (or greater) earthquake within 100 years. Based on historical records, the probability of an earthquake affecting the planning area is “Unlikely,” meaning that an event is probable in the next 10 years.

### *VULNERABILITY AND IMPACT*

While the entirety of the Saratoga County planning area, including the Town of Northumberland, is exposed to earthquake events, damaging earthquakes for the planning area are exceedingly rare. With no significant historical events recorded, neither annualized loss-estimates or a breakdown of potential dollar losses of critical facilities and infrastructure from earthquakes are available. According to the New York State Hazard Mitigation Plan there have been no known impacts to structures or infrastructure in the area due to earthquakes.

The lack of historical events or impacts supports a “Limited” severity of impact meaning injuries and/or illnesses are treatable with first aid, shutdown of facilities and services for 24 hours or less, and less than 10 percent of property is destroyed or with major damage.

The Town of Northumberland planning team members identified critical facilities as assets that are considered the most important to the planning area and are susceptible to a range of potential hazard impacts caused by earthquake events. Earthquake impacts to critical facilities are similar across the entire planning area and are listed in detail in the earthquake hazard profile (Section 7). The following critical facilities would be vulnerable to earthquake events in the Town of Northumberland:

**Table S-12. Critical Facilities at Risk**

JURISDICTION	CRITICAL FACILITIES
Town of Northumberland	2 Fire Stations, 1 Municipal Facility, 1 Police Station

The population over 65 in the Town of Northumberland is estimated at 15.7 percent of the Town’s total population and children under the age of 5 are estimated at 4.9 percent. The population with a disability is estimated at 10.3 percent of the Town’s total population. An estimated 6.3 percent of the Town of Northumberland’s population live below the poverty level and 2.4 percent of the populations speak a language other than English (Table S-13).

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**Table S-13. Populations at Greater Risk**

<b>JURISDICTION</b>	<b>65 AND OLDER</b>	<b>UNDER 5</b>	<b>WITH A DISABILITY</b>	<b>BELOW POVERTY LEVEL</b>	<b>LIMITED ENGLISH SPEAKING</b>
Town of Northumberland	822	259	541	330	126

Historic losses are reported on a county-wide basis. Please see Section 7 of this Plan for additional information on historical and annualized losses for the entire planning area.

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## EXTREME COLD

### HAZARD DESCRIPTION, LOCATION, EXTENT, & HISTORICAL OCCURRENCES

The Saratoga County Hazard Mitigation Plan Update provides a hazard description, location, and extent of the extreme cold hazard for each participating jurisdiction (Section 8). Extreme cold events are not confined to specific geographic boundaries and are considered similar for all participating jurisdictions throughout the planning area. For the purposes of evaluating this hazard, the following NCEI reporting categories are included under extreme cold: cold/wind chill, extreme cold, and frost/freeze. Historical extreme cold data for the County, including the Town of Northumberland, are provided on a county-wide basis per the NCEI database. Therefore, all historical events are listed in Section 8 of the Plan Update.

### PROBABILITY OF FUTURE EVENTS

According to historical records for the Saratoga County planning area, the Town of Northumberland can expect to experience approximately three to four extreme cold events each year. This frequency supports a “Highly Likely” probability of future events.

### VULNERABILITY AND IMPACT

While the entirety of the Saratoga County planning area, including the Town of Northumberland, is exposed to extreme cold events, existing buildings, infrastructure, and critical facilities are not likely to sustain significant damage from these events. However, the Town of Northumberland planning team members identified the following critical facilities (Table S-14) as assets that are considered the most important to the planning area. These facilities are susceptible to a range of impacts caused by this hazard. Extreme cold impacts to critical facilities are similar across the entire planning area and are listed in detail in the extreme cold hazard profile (Section 8). The following critical facilities would be vulnerable to extreme cold events in the Town of Northumberland:

**Table S-14. Critical Facilities at Risk**

JURISDICTION	CRITICAL FACILITIES
Town of Northumberland	2 Fire Stations, 1 Municipal Facility, 1 Police Station

The population over 65 in the Town of Northumberland is estimated at 15.7 percent of the Town’s total population and children under the age of 5 are estimated at 4.9 percent. The population with a disability is estimated at 10.3 percent of the Town’s total population. An estimated 6.3 percent of the Town of Northumberland’s population live below the poverty level and 2.4 percent of the populations speak a language other than English (Table S-15).

**Table S-15. Populations at Greater Risk**

JURISDICTION	65 AND OLDER	UNDER 5	WITH A DISABILITY	BELOW POVERTY LEVEL	LIMITED ENGLISH SPEAKING
Town of Northumberland	822	259	541	330	126

Historic losses are reported on a county-wide basis. Please see Section 8 of this Plan for additional information on historical and annualized losses for the entire planning area.

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## EXTREME HEAT

### HAZARD DESCRIPTION, LOCATION, EXTENT, & HISTORICAL OCCURRENCES

The Saratoga County Hazard Mitigation Plan Update provides a hazard description, location, and extent of the extreme heat hazard for each participating jurisdiction (Section 9). Extreme heat events are not confined to specific geographic boundaries and are considered similar for all participating jurisdictions throughout the planning area. Historical extreme heat data for the County, including the Town of Northumberland, are provided on a County-wide basis per the NCEI database. Therefore, all historical events are listed in Section 9 of the Plan Update.

### PROBABILITY OF FUTURE EVENTS

According to historical records for the Saratoga County planning area, the Town of Northumberland can expect to experience an extreme heat event approximately once every year. This frequency supports a “Highly Likely” probability of future events.

### VULNERABILITY AND IMPACT

While the entirety of the Saratoga County planning area, including the Town of Northumberland, is exposed to extreme heat events, existing buildings, infrastructure, and critical facilities are not likely to sustain significant damage from these events. However, the Town of Northumberland planning team members identified the following critical facilities (Table S-16) as assets that are considered the most important to the planning area. These facilities are susceptible to a range of impacts caused by this hazard. Extreme heat impacts to critical facilities are similar across the entire planning area and are listed in detail in the extreme heat hazard profile (Section 9). The following critical facilities would be vulnerable to extreme heat events in the Town of Northumberland:

**Table S-16. Critical Facilities at Risk**

JURISDICTION	CRITICAL FACILITIES
Town of Northumberland	2 Fire Stations, 1 Municipal Facility, 1 Police Station

The population over 65 in the Town of Northumberland is estimated at 15.7 percent of the Town’s total population and children under the age of 5 are estimated at 4.9 percent. The population with a disability is estimated at 10.3 percent of the Town’s total population. An estimated 6.3 percent of the Town of Northumberland’s population live below the poverty level and 2.4 percent of the populations speak a language other than English (Table S-17).

**Table S-17. Populations at Greater Risk**

JURISDICTION	65 AND OLDER	UNDER 5	WITH A DISABILITY	BELOW POVERTY LEVEL	LIMITED ENGLISH SPEAKING
Town of Northumberland	822	259	541	330	126

Historic losses are reported on a county-wide basis. Please see Section 9 of this Plan for additional information on historical and annualized losses for the entire planning area.

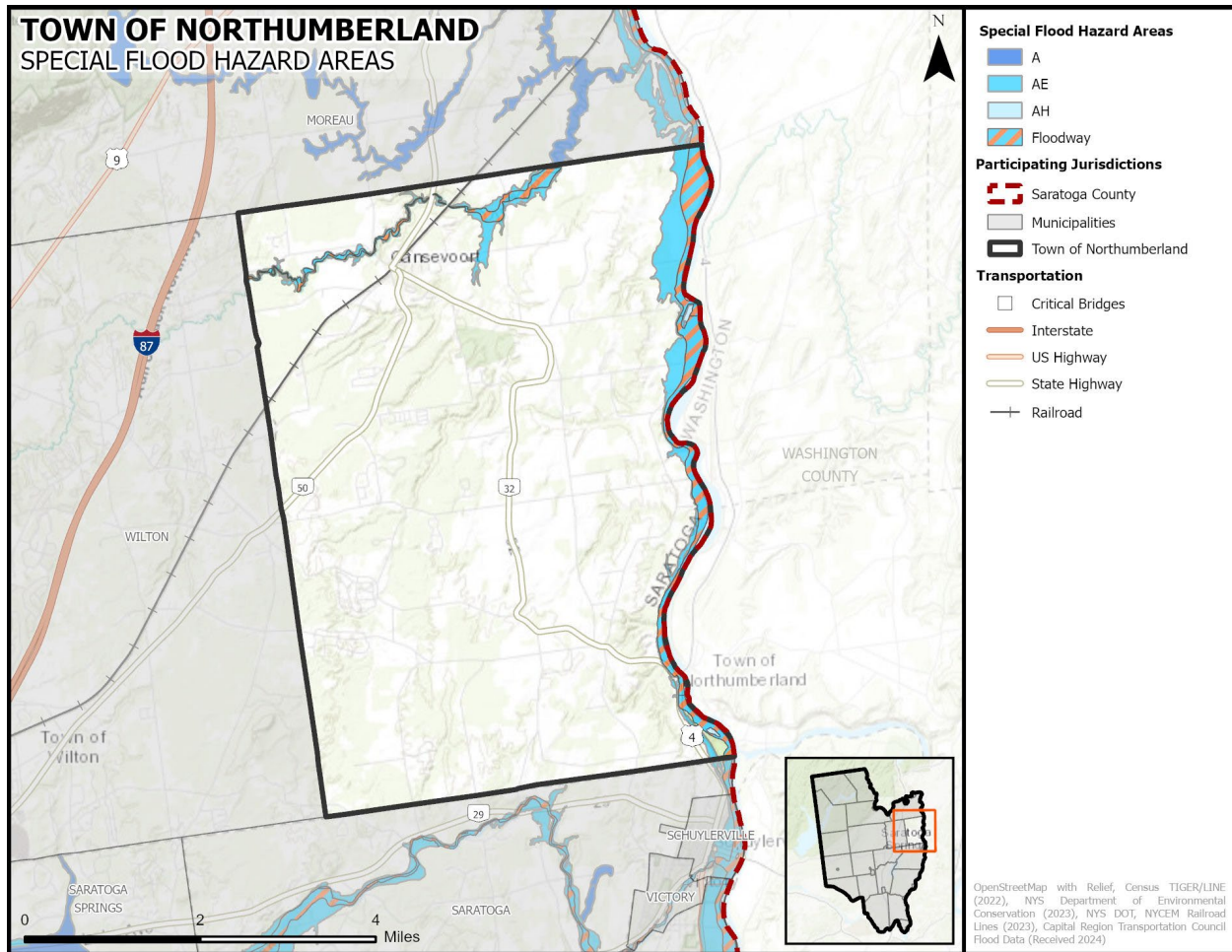
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## FLOOD

### HAZARD DESCRIPTION, LOCATION, & EXTENT

The Saratoga County Hazard Mitigation Plan Update provides a hazard description and extent of the flood hazard for the entire Saratoga County planning area in Section 10. Full flood zone delineations are available in the Town of Northumberland including some areas with base flood elevations. The location of estimated flood zones for the Town of Northumberland, based on data provided by the Capitol Region Transportation Council, is provided in Figure S-2. FEMA's regulatory flood insurance rate maps are available for all jurisdictions in Appendix H.

**Figure S-2. Estimated Flood Zones in the Town of Northumberland**



### HISTORICAL OCCURRENCES

Table S-18 provides the historical occurrences of flood events for the Town of Northumberland according to the National Oceanic and Atmospheric Administration (NOAA) Storm Prediction Center, National Centers for Environmental Information (NCEI) database for Saratoga County. From January 1996 through June 2024, six flood events were known to have impacted the Town of Northumberland, based upon NCEI records. Flood events are often reported on a county-wide basis, or under-reported for individual municipalities, particularly in smaller communities.

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**Table S-18. Historical Flood Events, 1996-2024**

JURISDICTION	DATE	DEATHS	INJURIES	PROPERTY DAMAGE	CROP DAMAGE
Town of Northumberland	11/17/2006	0	0	\$0	\$0
	8/28/2011	0	0	\$0	\$0
	4/15/2019	0	0	\$1,300	\$0
	7/29/2021	0	0	\$0	\$0
	7/29/2021	0	0	\$0	\$0
	9/15/2021	0	0	\$0	\$0
<b>Totals</b>		<b>0</b>	<b>0</b>	<b>\$1,300</b>	

Based on the list of historical flood events for the Town of Northumberland, four reported events have occurred since the 2019 Plan.

### *PROBABILITY OF FUTURE EVENTS*

While some incidents may be reported at the local municipal level, as indicated above, County level events provide a more robust risk assessment for each participating jurisdiction. According to historical records for the Saratoga County planning area, the Town of Northumberland can expect to experience approximately five flood events every year. This frequency supports a “Highly Likely” probability of future events.

### *VULNERABILITY AND IMPACT*

The Town of Northumberland planning team members identified critical facilities as assets that are considered the most important to the planning area and are susceptible to a range of potential impacts from a variety of natural hazards, including those facilities located in the regulatory floodplain. There are no critical facilities located in the floodplain in the Town of Northumberland.

Historic loss estimates due to flood are presented in Table S-19 below.

**Table S-19. Potential Annualized Losses, 1996-2024<sup>8</sup>**

JURISDICTION	NUMBER OF EVENTS	PROPERTY & CROP LOSS	ANNUAL LOSS ESTIMATES
Town of Northumberland	6	\$1,300	\$0 <sup>9</sup>

While all citizens are at risk of the impacts of a flood, forced relocation and disaster recovery drastically impacts low-income residents who lack the financial means to travel, afford a long-term stay away from home, and to rebuild or repair their homes. The population over 65 in the Town of Northumberland is estimated at 15.7 percent of the Town’s total population and children under the age of 5 are estimated at 4.9 percent. The population with a disability is estimated at 10.3 percent of the Town’s total population. An estimated 6.3 percent of the Town of Northumberland’s

<sup>8</sup> Historical events are reported from 1996 through 2024; values are in 2024 dollars.

<sup>9</sup> Due to low reported property and crop losses, the annual loss estimate is considered negligible over the 28.5 year reporting period.

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population live below the poverty level and 2.4 percent of the populations speak a language other than English (Table S-20).

**Table S-20. Populations at Greater Risk**

JURISDICTION	65 AND OLDER	UNDER 5	WITH A DISABILITY	BELOW POVERTY LEVEL	LIMITED ENGLISH SPEAKING
Town of Northumberland	822	259	541	330	126

The severity of a flooding event varies depending on the relative risk to citizens and structures located within each jurisdiction. Table S-21 depicts the level of impact for the Town of Northumberland.

**Table S-21 Town of Northumberland Impact**

JURISDICTION	IMPACT	DESCRIPTION
Town of Northumberland	Limited	The Town of Northumberland could have limited property damage with critical facilities typically shut down for 24 hours or less, and less than 10 percent of property would be destroyed or damaged.

### *NATIONAL FLOOD INSURANCE PROGRAM (NFIP) PARTICIPATION*

The Town of Northumberland currently participates in the National Flood Insurance Program and is in good standing. The community has adopted a flood damage prevention ordinance that includes the minimum requirements for development in special flood hazard areas.

### *NFIP COMPLIANCE AND MAINTENANCE*

The Town of Northumberland has developed mitigation actions that relate to NFIP participation, maintenance or compliance. Compliance and maintenance actions can be found in Section 23. Flooding was identified by the Town of Northumberland as a high-risk hazard during hazard ranking activities at the Risk Assessment Workshop. Many of the mitigation actions for the jurisdiction were developed with flood mitigation in mind.

The Town of Northumberland Zoning Administrator is designated as the local floodplain administrator and is responsible for maintaining compliance in the NFIP through development regulations as outlines in the community flood damage prevention ordinance (Table S-22). The local flood damage prevention ordinance is available for review at the local floodplain administrator’s office. In addition, the ordinance can be viewed using the link provided below (Table S-22)

**Table S-22. Flood Damage Prevention Ordinance**

JURISDICTION	FLOOD DAMAGE PREVENTION ORDINANCE
Town of Northumberland	<a href="https://documents.dps.ny.gov/search/Home/ViewDoc/Find?id=%7BEF735C13-6FF9-457B-8D8F-F9A309B96E0C%7D&amp;ext=pdf">https://documents.dps.ny.gov/search/Home/ViewDoc/Find?id=%7BEF735C13-6FF9-457B-8D8F-F9A309B96E0C%7D&amp;ext=pdf</a>

The floodplain administrator is responsible for

- Permitting and inspecting construction activity in the floodplain



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- Ensuring conformance with floodplain permit requirements
- Enforcing floodplain regulations
- Identifying Substantially Damaged structures and ensuring compliance during reconstruction
- Identifying Substantial Improvements in proposed development permit applications and ensuring compliance during construction
- Providing floodplain map and flood insurance information to the public
- Coordinating with FEMA to maintain the community's participation in the NFIP
- Keeping records of construction in the floodplain

Table S-23 provides the most recent Community Assistance Visits (CAV) and Community Assistance Calls (CAC) dates along with the current status for the jurisdiction.

**Table S-23. Compliance History**

JURISDICTION	DATE OF LAST CAV	DATE OF LAST CAC	CURRENT NFIP STATUS	POLICIES IN FORCE
Town of Northumberland	N/A	10/12/2018	Good Standing	6

### *REPETITIVE LOSS*

The Town of Northumberland currently has no repetitive loss or severe repetitive loss properties.

# ANNEX S: TOWN OF NORTHUMBERLAND

## HAIL

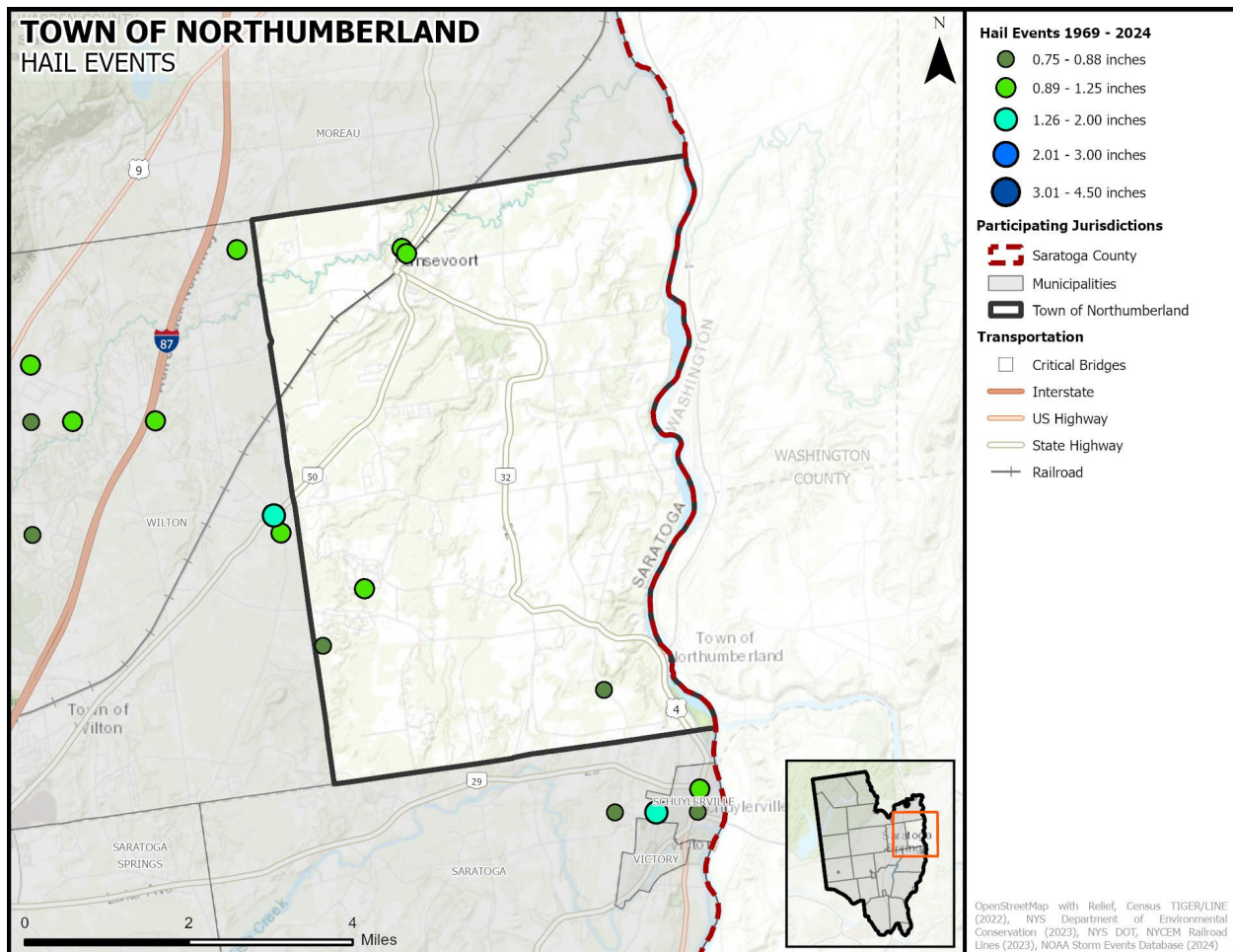
### HAZARD DESCRIPTION, LOCATION, & EXTENT

The Saratoga County Hazard Mitigation Plan Update provides a hazard description, location and extent of the hail hazard for each participating jurisdiction (Section 11). Hail events are not confined to specific geographic boundaries and are considered similar for all participating jurisdictions throughout the planning area.

### HISTORICAL OCCURRENCES

Historical evidence shown in Figure S-3 demonstrates that the Town of Northumberland is vulnerable to hail events overall. Historical events are shown in Table S-24. A total of seven reported historical hail events impacted the Town of Northumberland from January 1969 through June 2024; these events were reported to NCEI and NOAA databases and may not represent all hail events to have occurred during the past 55.5 years. Only those events for the Town of Northumberland with latitude and longitude available were plotted (Figure S-3).

Figure S-3. Historical Hail Events, 1968-2024



# ANNEX S: TOWN OF NORTHUMBERLAND

**Table S-24. Historical Hail Events, 1969-2024<sup>10</sup>**

JURISDICTION	DATE	MAGNITUDE (inches)	DEATHS	INJURIES	PROPERTY DAMAGE	CROP DAMAGE
Town of Northumberland	7/25/1994	0.88	0	0	\$0	\$0
	6/30/2009	0.75	0	0	\$0	\$0
	6/9/2011	1.25	0	0	\$0	\$0
	5/16/2012	1	0	0	\$0	\$0
	5/16/2012	0.88	0	0	\$0	\$0
	5/15/2020	0.75	0	0	\$0	\$0
	7/20/2021	0.75	0	0	\$0	\$0
	7/20/2021	1.25	0	0	\$0	\$0
<b>TOTALS</b>		<b>(Max Extent)</b>	<b>0</b>	<b>0</b>	<b>\$0</b>	<b>\$0</b>

Based on the list of historical hail events for the Town of Northumberland, three reported events have occurred since the 2019 Plan.

### *PROBABILITY OF FUTURE EVENTS*

Historical hail events are reported on a county-wide basis. While some incidents may be reported at the local municipal level, as indicated above, county level events provide a more robust risk assessment for each participating jurisdiction. According to historical records for the Saratoga County planning area, the Town of Northumberland can expect approximately three to four hail events every year. This frequency supports a “Highly Likely” probability of future events.

### *VULNERABILITY AND IMPACT*

The Town of Northumberland planning team members identified the following critical facilities as assets that are considered the most important to the planning area. These facilities are susceptible to a range of impacts caused by hailstorm events. Hail impacts to critical facilities are similar across the entire planning area and are listed in detail in the hail hazard profile (Section 11).

**Table S-25. Critical Facilities at Risk**

JURISDICTION	CRITICAL FACILITIES
Town of Northumberland	2 Fire Stations, 1 Municipal Facility, 1 Police Station

The U.S. Census data indicates a total of 135 (7 percent of total housing stock) manufactured homes located in the Town of Northumberland. In addition, 27 percent (approximately 528 structures) of the housing structures in the Town of Northumberland were built before 1980. These structures would typically be built to lower or less stringent construction standards than newer construction and may be more susceptible to damages during significant hail events.

<sup>10</sup> Historical events are reported from 1969 through 2024; values are in 2024 dollars.

## ANNEX S: TOWN OF NORTHUMBERLAND

**Table S-26. Structures at Greater Risk**

JURISDICTION	MANUFACTURED HOMES	SFRR STRUCTURES BUILT BEFORE 1980
Town of Northumberland	135	528

While all citizens are at risk of the impacts of hail, forced relocation and disaster recovery drastically impacts low-income residents who lack the financial means to travel, afford a long-term stay away from home, and to rebuild or repair their homes. The population over 65 in the Town of Northumberland is estimated at 15.7 percent of the Town’s total population and children under the age of 5 are estimated at 4.9 percent. The population with a disability is estimated at 10.3 percent of the Town’s total population. An estimated 6.3 percent of the Town of Northumberland’s population live below the poverty level and 2.4 percent of the populations speak a language other than English (Table S-27).

**Table S-27. Populations at Greater Risk**

JURISDICTION	65 AND OLDER	UNDER 5	WITH A DISABILITY	BELOW POVERTY LEVEL	LIMITED ENGLISH SPEAKING
Town of Northumberland	822	259	541	330	126

Overall, the average loss estimate of property and crops in the Town of Northumberland is \$0 with an average annualized loss of \$0. Based on historic loss and damages, the impact of hail damages on the Town of Northumberland can be considered “Limited” severity of impact, meaning minor quality of life lost, critical facilities and services shut down for 24 hours or less, and less than 10 percent of property destroyed or with major damage.

**Table S-28. Estimated Annualized Losses**

JURISDICTION	TOTAL PROPERTY & CROP LOSS	ANNUAL LOSS ESTIMATE
Town of Northumberland	\$0	\$0

# ANNEX S: TOWN OF NORTHUMBERLAND

## HURRICANE / TROPICAL STORM

### HAZARD DESCRIPTION, LOCATION, EXTENT, & HISTORICAL OCCURRENCES

The Saratoga County Hazard Mitigation Plan Update provides a hazard description, location, and extent of the hurricane/tropical storm hazard for each participating jurisdiction (Section 12). The location of the Saratoga County planning area is approximately 170 miles from the coast making the planning area, including Town of Northumberland, vulnerable to threats directly and indirectly related to a hurricane event, such as high-force winds and flooding. There is no geographic boundary to the hazard therefore the risk is considered similar for all participating jurisdictions throughout Saratoga County, including the Town of Northumberland. Historical hurricane data for the planning area, including the Town of Northumberland, are provided on a regional basis per the NCEI database. Therefore, all historical events are listed in Section 12 of the Plan Update.

### PROBABILITY OF FUTURE EVENTS

According to NOAA Historical Hurricane Tracks there have been six hurricanes or tropical storms track across or near the planning area between January 1996 and June 2024. The probability of a hurricane or tropical storm affecting the planning area is considered “Occasional”, meaning that an event is probable in the next five years.

### VULNERABILITY AND IMPACT

Hurricane and tropical storm events can cause major damage to large areas; hence, all existing buildings, facilities, and populations are equally exposed and vulnerable to this hazard and could potentially be impacted. The lack of historical impacts to the entire Saratoga County planning area supports a “Limited” severity of impact meaning injuries and/or illnesses are treatable with first aid, shutdown of facilities and services for 24 hours or less, and less than ten percent of property is destroyed or with major damage.

The Town of Northumberland planning team members identified the following critical facilities as assets that are considered the most important to the planning area. These facilities are susceptible to a range of impacts caused by hurricane events. Hurricane impacts to critical facilities are similar across the entire planning area and are listed in detail in the hurricane hazard profile (Section 12). The following critical facilities would be vulnerable to earthquake events in the Town of Northumberland:

**Table S-29. Critical Facilities at Risk**

JURISDICTION	CRITICAL FACILITIES
Town of Northumberland	2 Fire Stations, 1 Municipal Facility, 1 Police Station

The population over 65 in the Town of Northumberland is estimated at 15.7 percent of the Town’s total population and children under the age of 5 are estimated at 4.9 percent. The population with a disability is estimated at 10.3 percent of the Town’s total population. An estimated 6.3 percent of the Town of Northumberland’s population live below the poverty level and 2.4 percent of the populations speak a language other than English (Table S-30).

## ANNEX S: TOWN OF NORTHUMBERLAND

**Table S-30. Populations at Greater Risk**

<b>JURISDICTION</b>	<b>65 AND OLDER</b>	<b>UNDER 5</b>	<b>WITH A DISABILITY</b>	<b>BELOW POVERTY LEVEL</b>	<b>LIMITED ENGLISH SPEAKING</b>
Town of Northumberland	822	259	541	330	126

Historic losses are typically reported on a county-wide basis. Please see Section 12 of this Plan for additional information on historical and annualized losses for the entire planning area.

# ANNEX S: TOWN OF NORTHUMBERLAND

## ICE STORM

### HAZARD DESCRIPTION, LOCATION, EXTENT, & HISTORICAL OCCURRENCES

The Saratoga County Hazard Mitigation Plan Update provides a hazard description, location, and extent of the ice storm hazard for each participating jurisdiction (Section 13). Ice storm events are not confined to specific geographic boundaries and are considered similar for all participating jurisdictions throughout the planning area. For the purposes of evaluating this hazard, the following NCEI reporting categories are included under ice storm: sleet, freezing fog, and ice storm. Historical ice storm data for the county, including the Town of Northumberland, are provided on a county-wide basis per the NCEI database. Therefore, all historical events are listed in Section 13 of the Plan Update.

### PROBABILITY OF FUTURE EVENTS

According to historical records for the Saratoga County planning area, the Town of Northumberland can expect to experience an ice storm event approximately every five years. This frequency supports a “Occasional” probability of future events.

### VULNERABILITY AND IMPACT

While the entirety of the Saratoga County planning area, including the Town of Northumberland, is exposed to ice storm events, existing buildings, infrastructure, and critical facilities are not likely to sustain significant damage from these events. However, the Town of Northumberland planning team members identified the following critical facilities (Table S-31) as assets that are considered the most important to the planning area. These facilities are susceptible to a range of impacts caused by this hazard. Ice storm impacts to critical facilities are similar across the entire planning area and are listed in detail in the ice storm hazard profile (Section 13). The following critical facilities would be vulnerable to ice storm events in the Town of Northumberland:

**Table S-31. Critical Facilities at Risk**

JURISDICTION	CRITICAL FACILITIES
Town of Northumberland	2 Fire Stations, 1 Municipal Facility, 1 Police Station

The population over 65 in the Town of Northumberland is estimated at 15.7 percent of the Town’s total population and children under the age of 5 are estimated at 4.9 percent. The population with a disability is estimated at 10.3 percent of the Town’s total population. An estimated 6.3 percent of the Town of Northumberland’s population live below the poverty level and 2.4 percent of the populations speak a language other than English (Table S-32).

**Table S-32. Populations at Greater Risk**

JURISDICTION	65 AND OLDER	UNDER 5	WITH A DISABILITY	BELOW POVERTY LEVEL	LIMITED ENGLISH SPEAKING
Town of Northumberland	822	259	541	330	126

Historic losses are reported on a county-wide basis. Please see Section 13 of this Plan for additional information on historical and annualized losses for the entire planning area.

## ANNEX S: TOWN OF NORTHUMBERLAND

### LANDSLIDE

#### *HAZARD DESCRIPTION, LOCATION, EXTENT, & HISTORICAL OCCURRENCES*

The Saratoga County Hazard Mitigation Plan Update provides a hazard description, location and extent of the landslide hazard for all participating jurisdictions prone to landslides (Section 14). The majority of Saratoga County is categorized as having a low landslide incidence overall with the eastern section along the Hudson River categorized as having a high landslide incidence, including the Town of Northumberland.

Since 1996, the Saratoga County planning area has had 3 reported incidents and \$70,000 in damages due to landslides. It is noted however, that most landslide incidences within New York State have not been well documented.

#### *PROBABILITY OF FUTURE EVENTS*

Based on available records of historic events there are no known historic events of landslide in the Town of Northumberland over the 28.5-year reporting period which provides a probability of one event every five years. This frequency supports an “Occasional” probability of future events for the Town of Northumberland.

#### *VULNERABILITY AND IMPACT*

The only known areas susceptible to landslide within the planning area are located in the eastern and southern portions of the County along the Hudson River. Structures and infrastructure in close proximity to steep slopes along the river are vulnerable to landslide impacts. There have been minimal impacts to structures or infrastructure in the area due to landslide and there are no critical facilities located in the areas considered at greater risk. The lack of historical events or impacts supports a “Limited” severity of impact meaning injuries and/or illnesses are treatable with first aid, shutdown of facilities and services for 24 hours or less, and less than 10 percent of property is destroyed or with major damage.



# ANNEX S: TOWN OF NORTHUMBERLAND

## LIGHTNING

### HAZARD DESCRIPTION, LOCATION, & EXTENT

The Saratoga County Hazard Mitigation Plan Update provides a hazard description, location and extent of the lightning hazard for each participating jurisdiction (Section 15). Lightning events are not confined to specific geographic boundaries and are considered similar for all participating jurisdictions throughout the planning area.

### HISTORICAL OCCURRENCES

There have been no recorded lightning events in the Town of Northumberland from 1996 through June 2024. The NCEI is a national data source organized under the National Oceanic and Atmospheric Administration and considered a reliable resource for hazards. However, historical lightning events have only been reported as independent events to the NCEI in recent years and remain widely underreported. The flash density for the planning area along with input from local team members was utilized in evaluating the jurisdiction’s risk. The flash density for the entire planning area indicates regular occurrences of lightning events that simply are not being reported.

### PROBABILITY OF FUTURE EVENTS

Based on historical records and input from the planning team the probability of occurrence for future lightning events in the Town of Northumberland is considered “Highly Likely,” or an event probable in the next year. The planning team stated that lightning occurs regularly in the area.

### VULNERABILITY AND IMPACT

The Town of Northumberland planning team members identified the following critical facilities as assets that are considered the most important to the planning area. These facilities are susceptible to a range of impacts caused by lightning events. Lightning impacts to critical facilities are similar across the entire planning area and are listed in detail in the lightning hazard profile (Section 15).

**Table S-33. Critical Facilities at Risk**

JURISDICTION	CRITICAL FACILITIES
Town of Northumberland	2 Fire Stations, 1 Municipal Facility, 1 Police Station

While all citizens are at risk to the impacts of lightning, forced relocation and disaster recovery drastically impacts low-income residents who lack the financial means to travel, afford a long-term stay away from home, and to rebuild or repair their homes. The population over 65 in the Town of Northumberland is estimated at 15.7 percent of the Town’s total population and children under the age of 5 are estimated at 4.9 percent. The population with a disability is estimated at 10.3 percent of the Town’s total population. An estimated 6.3 percent of the Town of Northumberland’s population live below the poverty level and 2.4 percent of the populations speak a language other than English (Table S-34).

**Table S-34. Populations at Greater Risk**

JURISDICTION	65 AND OLDER	UNDER 5	WITH A DISABILITY	BELOW POVERTY LEVEL	LIMITED ENGLISH SPEAKING
Town of Northumberland	822	259	541	330	126

## ANNEX S: TOWN OF NORTHUMBERLAND

With no historical lightning events or losses, the impacts of lightning events can be considered “Limited” with injuries or illness treatable with first aid, critical facilities and services shut down for 24 hours or less, and less than 10 percent of property destroyed. Overall, the average losses anticipated for the Town of Northumberland due to lightning are considered negligible.

# ANNEX S: TOWN OF NORTHUMBERLAND

## SNOW STORM

### HAZARD DESCRIPTION, LOCATION, EXTENT, & HISTORICAL OCCURRENCES

The Saratoga County Hazard Mitigation Plan Update provides a hazard description, location, and extent of the snow storm hazard for each participating jurisdiction (Section 16). Snow storm events are not confined to specific geographic boundaries and are considered similar for all participating jurisdictions throughout the planning area. For the purposes of evaluating this hazard, the following NCEI reporting categories are included under snow storm: blizzard, heavy snow, and winter storm. Historical snow storm data for the County, including the Town of Northumberland, are provided on a county-wide basis per the NCEI database. Therefore, all historical events are listed in Section 16 of the Plan Update.

### PROBABILITY OF FUTURE EVENTS

According to historical records for the Saratoga County planning area, the Town of Northumberland can expect to experience a snow storm event approximately 13 times each year. This frequency supports a “Highly Likely” probability of future events.

### VULNERABILITY AND IMPACT

While the entirety of the Saratoga County planning area, including the Town of Northumberland, is exposed to snow storm events, existing buildings, infrastructure, and critical facilities are not likely to sustain significant damage from these events. However, the Town of Northumberland planning team members identified the following critical facilities (Table S-35) as assets that are considered the most important to the planning area. These facilities are susceptible to a range of impacts caused by this hazard. Snow storm impacts to critical facilities are similar across the entire planning area and are listed in detail in the snow storm hazard profile (Section 16). The following critical facilities would be vulnerable to snow storm events in the Town of Northumberland:

**Table S-35. Critical Facilities at Risk**

JURISDICTION	CRITICAL FACILITIES
Town of Northumberland	2 Fire Stations, 1 Municipal Facility, 1 Police Station

The population over 65 in the Town of Northumberland is estimated at 15.7 percent of the Town’s total population and children under the age of 5 are estimated at 4.9 percent. The population with a disability is estimated at 10.3 percent of the Town’s total population. An estimated 6.3 percent of the Town of Northumberland’s population live below the poverty level and 2.4 percent of the populations speak a language other than English (Table S-36).

**Table S-36. Populations at Greater Risk**

JURISDICTION	65 AND OLDER	UNDER 5	WITH A DISABILITY	BELOW POVERTY LEVEL	LIMITED ENGLISH SPEAKING
Town of Northumberland	822	259	541	330	126

Historic losses are reported on a county-wide basis. Please see Section 16 of this Plan for additional information on historical and annualized losses for the entire planning area.

# ANNEX S: TOWN OF NORTHUMBERLAND

## TORNADO

### HAZARD DESCRIPTION, LOCATION, & EXTENT

The Saratoga County Hazard Mitigation Plan Update provides a hazard description, location and extent of the tornado hazard for each participating jurisdiction (Section 17). The risk of a tornado is not confined to specific geographic boundaries and the risk of an event is considered similar for all participating jurisdictions throughout the planning area.

### HISTORICAL OCCURRENCES

Table S-37 provides the historical occurrences of tornado events for the Town of Northumberland according to the National Centers for Environmental Information (NCEI) Storm Events database. From January 1974 through June 2024, one tornado event is known to have impacted the Town of Northumberland, based upon NCEI records.

**Table S-37. Historical Tornado Events, 1974-2024<sup>11</sup>**

JURISDICTION	DATE	MAGNITUDE	DEATHS	INJURIES	PROPERTY DAMAGE	CROP DAMAGE
Town of Northumberland	11/16/1989	F0	0	0	\$61,000	\$0
<b>TOTALS</b>		<b>(MAX EXTENT)</b>	<b>0</b>	<b>0</b>	<b>\$61,000</b>	<b>\$0</b>

Based on the list of historical tornado events for the Town of Northumberland, there have been no recorded events since the 2019 Plan.

### PROBABILITY OF FUTURE EVENTS

With one historical tornado event over a 50-year reporting period, the Town of Northumberland can anticipate a tornado touchdown approximately once every three to four years. This frequency supports an “Likely” probability of future events.

### VULNERABILITY AND IMPACT

The Town of Northumberland planning team members identified the following critical facilities as assets that are considered the most important to the planning area. These facilities are susceptible to a range of impacts caused by tornado events. Tornado impacts to critical facilities are similar across the entire planning area and are listed in detail in the tornado hazard profile (Section 17).

**Table S-38. Critical Facilities at Risk**

JURISDICTION	CRITICAL FACILITIES
Town of Northumberland	2 Fire Stations, 1 Municipal Facility, 1 Police Station

According to the American Community Survey (ACS) five-year estimates for 2022, a total of 135 manufactured homes are located in the Town of Northumberland (7 percent of total housing stock). In addition, 27 percent (approximately 528 structures) of the housing units were built before 1980. These structures would typically be built to lower or less stringent construction

<sup>11</sup> Historical events are reported from 1974 through 2023. Magnitude is listed when available. Damage values are in 2024 dollars.

## ANNEX S: TOWN OF NORTHUMBERLAND

standards than newer construction and may be more susceptible to damage during tornado events.

**Table S-39. Structures at Greater Risk**

JURISDICTION	SFR STRUCTURES BUILT BEFORE 1980	MANUFACTURED HOMES
Town of Northumberland	528	135

While all citizens are at risk to the impacts of a tornado event, forced relocation and disaster recovery drastically impacts low-income residents who lack the financial means to travel, afford a long-term stay away from home, and to rebuild or repair their homes. The population over 65 in the Town of Northumberland is estimated at 15.7 percent of the Town’s total population and children under the age of 5 are estimated at 4.9 percent. The population with a disability is estimated at 10.3 percent of the Town’s total population. An estimated 6.3 percent of the Town of Northumberland’s population live below the poverty level and 2.4 percent of the populations speak a language other than English (Table S-40).

**Table S-40. Populations at Greater Risk**

JURISDICTION	65 AND OLDER	UNDER 5	WITH A DISABILITY	BELOW POVERTY LEVEL	LIMITED ENGLISH SPEAKING
Town of Northumberland	822	259	541	330	126

The total annual loss estimate due to tornado events is \$61,000 (in 2024 dollars), having an approximate annual loss estimate of \$1,200. Based on historic damages and best available data the impact of a tornado event on the Town of Northumberland would be considered “Limited,” with injuries and illness treatable with first aid, critical facilities and services shutdown for 24-hours or less and less than 10 percent of properties destroyed or with major damage.

**Table S-41. Estimated Average Annual Losses**

JURISDICTION	TOTAL PROPERTY & CROP LOSS	ANNUAL LOSS ESTIMATE
Town of Northumberland	\$61,000	\$1,200

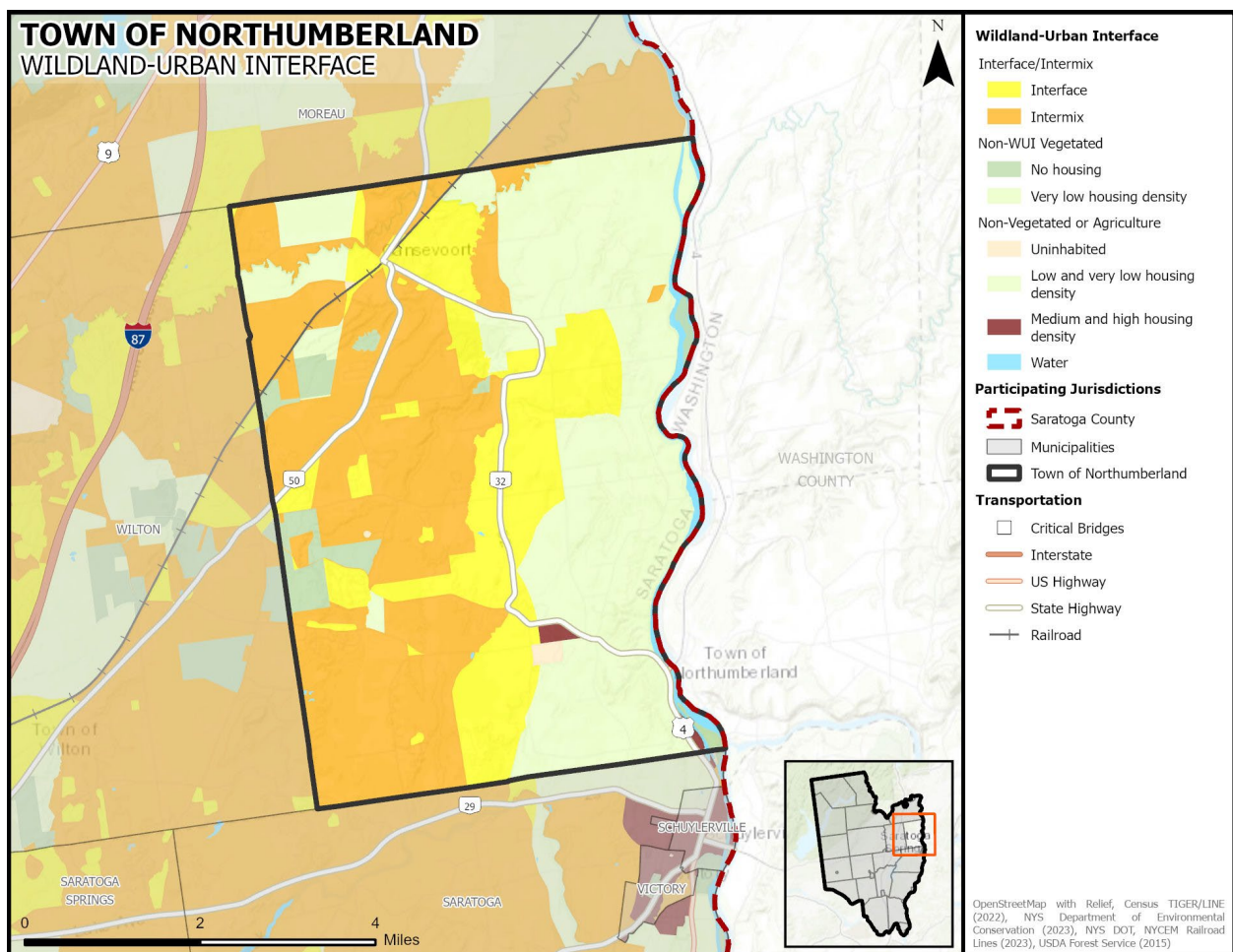
# ANNEX S: TOWN OF NORTHUMBERLAND

## WILDFIRE

### HAZARD DESCRIPTION, & LOCATION

The Saratoga County Hazard Mitigation Plan Update provides a hazard description of the wildfire hazard for each participating jurisdiction (Section 18). A wildfire event can be a potentially damaging consequence of drought conditions, lightning, or wind event, if the conditions allow. Wildfires can vary greatly in terms of size, location, intensity, and duration. While wildfires are not confined to any specific geographic location, they are most likely to occur in open grasslands, highly vegetative areas, or along the forest floor, when conditions are favorable. The threat to people and property from a wildfire event is greater in the fringe areas where developed areas meet open grass lands, such as the Wildland Urban Interface (WUI). (Figure S-4). The Town of Northumberland planning area is considered at low risk for wildfires with limited WUI areas.

**Figure S-4. Town of Northumberland Wildland Urban Interface Map**



The New York State Department of Environmental Conservation (NYS DEC), Division of Forest Protection regularly identifies Fire Danger Rating Area (FDRA) Risk across the state. Reviewing a combination of temperature, wind, relative humidity, fuel and/or drought conditions, the Division of Forest Protection issues color coded danger alerts. The entire planning area, including the Town of Northumberland, had a “Moderate” FDRA Risk rating as of October 2024 (Section 18, Figure 18-2).

## ANNEX S: TOWN OF NORTHUMBERLAND

### *EXTENT*

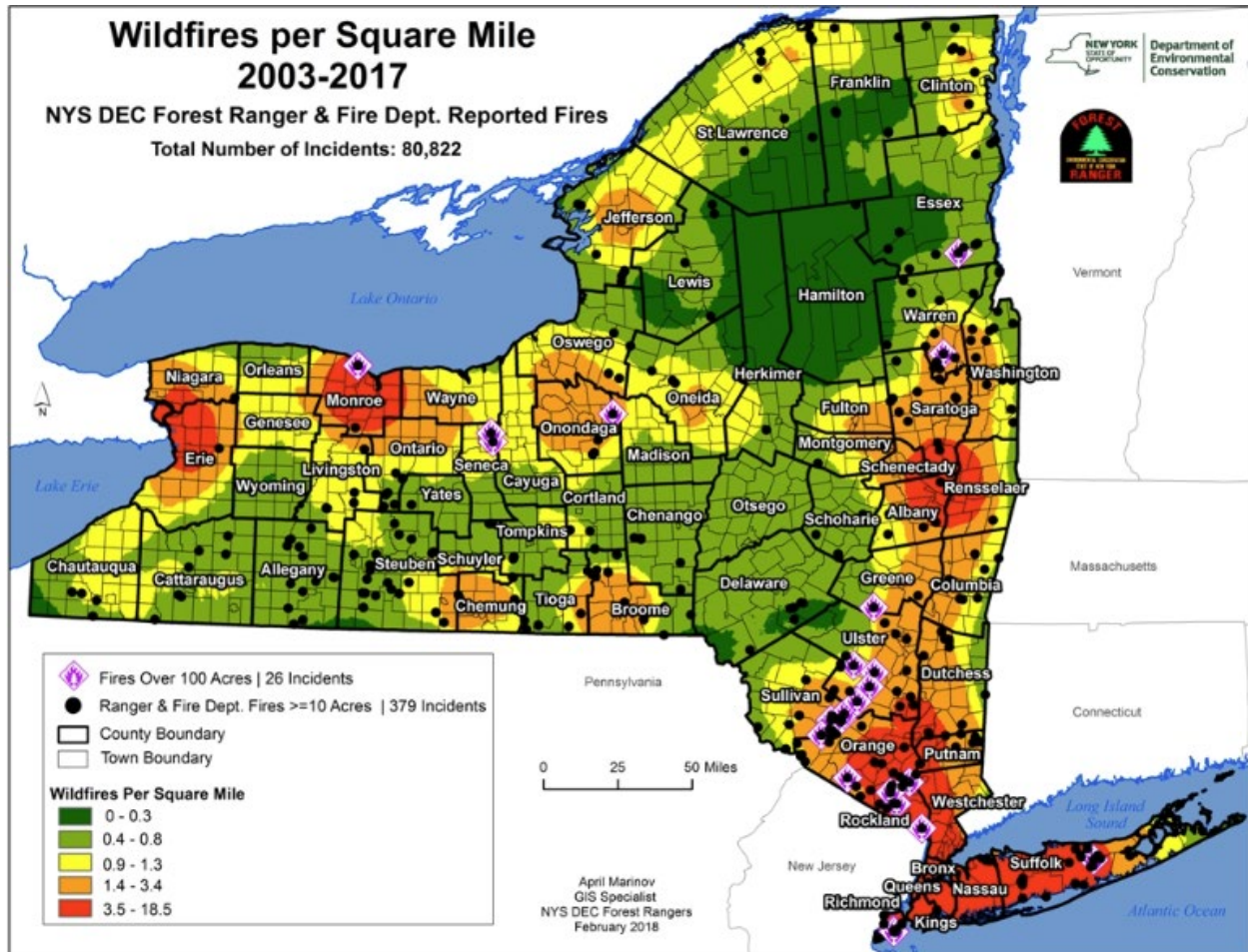
Risk for a wildfire event is measured in terms of magnitude and intensity using the Keetch Byram Drought Index (KBDI), a mathematical system for relating current and recent weather conditions to potential or expected fire behavior. The KBDI is available at the county level. The Saratoga County Hazard Mitigation Plan Update provides KBDI levels and descriptions along with the range of historical KBDI levels for the planning area (Section 18).

The average extent to be mitigated for the planning area is a KBDI of 300 to 400. At this level fires more readily burn and will carry across an area with no gaps. Heavier fuels will not readily ignite and burn. Expect smoldering and the resulting smoke to carry into and possibly through the night. Based on historical records and readily available fuel, the planning area can anticipate a KBDI range from 0 to 500. At the high end of this range fire intensity begins to significantly increase. Fires will readily burn in all directions exposing mineral soils in some locations. Larger fuels may burn or smolder for several days creating possible smoke and control problems.

The NYS DEC provides historical wildfire statistics from 2003 through 2017 (Figure S-5). Detailed data on historic wildfires in the planning area, including damages, acres burned, fatalities, or injuries, was not available. There were ten wildfires greater than 10 acres in Saratoga County during that same period, with the greatest wildfires per square mile occurring in the southern portions of the county. The Saratoga County planning area can anticipate limited future wildfire events, typically burning less than 10 acres with infrequent events exceeding 10 acres.

# ANNEX S: TOWN OF NORTHUMBERLAND

Figure S-5. Wildfires per Square Mile, 2003-2017



## HISTORICAL OCCURRENCES

Between 2008 and 2022 there were 62 wildfire events in Saratoga County. These incidents are reported county-wide. Most of the incidents were timber fires (48), followed by grass fires (8), brush (4), and slash (2). Based on data provided for historical wildfire events for Saratoga County planning area, 19 events have occurred since the 2019 Plan.

## PROBABILITY OF FUTURE EVENTS

With 62 events in a 15-year period, a wildfire event within Saratoga County planning area, including Saratoga County, is “Highly Likely” meaning an event is probable within the next year.

## VULNERABILITY AND IMPACT

The Town of Northumberland planning team members identified the following critical facilities as assets that are considered the most important to the planning area. These facilities are susceptible to a range of impacts caused by wildfire events. Wildfire impacts to critical facilities are similar across the entire planning area and are listed in detail in the wildfire hazard profile (Section 18).



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**Table S-42. Critical Facilities at Risk**

JURISDICTION	CRITICAL FACILITIES
Town of Northumberland	2 Fire Stations, 1 Municipal Facility, 1 Police Station

For the Town of Northumberland, the impact from a wildfire event can be considered “Limited,” meaning injuries and/or illnesses are treatable with first aid, complete shutdown of facilities and services for 24-hours or less and less than 10 percent of property is destroyed or with major damage. Severity of impact is gauged by acreage burned, homes and structures lost, injuries and fatalities.

# ANNEX S: TOWN OF NORTHUMBERLAND

## WIND

### HAZARD DESCRIPTION, LOCATION, & EXTENT

The Saratoga County Hazard Mitigation Plan Update provides a hazard description, location and extent of the wind hazard for each participating jurisdiction (Section 19). Wind events are not confined to specific geographic boundaries and are considered similar for all participating jurisdictions throughout the planning area.

### HISTORICAL OCCURRENCES

Since 1960, 30 wind events are known to have occurred in the Town of Northumberland. Table S-43 presents information on known historical events impacting the Town of Northumberland.

**Table S-43. Historical Wind Events, 1960-2024<sup>12</sup>**

JURISDICTION	DATE	TIME	MAGNITUDE (knots)	DEATHS	INJURIES	PROPERTY DAMAGE	CROP DAMAGE
Town of Northumberland	8/19/1987	1450	0	0	0	\$0	\$0
	9/10/1992	1647	0	0	0	\$0	\$0
	7/26/1994	1415	0	0	0	\$10,400	\$0
	8/24/1998	1405	-	0	0	\$2,900	\$0
	7/18/1999	1410	-	0	0	\$1,900	\$0
	4/19/2004	2100	60	0	0	\$0	\$0
	7/1/2005	1655	60	0	0	\$0	\$0
	6/19/2006	1457	60	0	0	\$0	\$0
	7/6/2007	1100	50	0	0	\$0	\$0
	4/28/2011	650	50	0	0	\$0	\$0
	8/5/2012	1917	50	0	0	\$0	\$0
	7/19/2013	2110	55	0	0	\$0	\$0
	7/3/2014	1720	50	0	0	\$0	\$0
	6/9/2015	1415	50	0	0	\$0	\$0
	7/24/2015	1347	50	0	0	\$0	\$0
	7/24/2015	1355	50	0	0	\$0	\$0
	8/12/2016	1503	50	0	0	\$0	\$0
	7/17/2017	1555	50	0	0	\$0	\$0
	7/17/2017	1533	50	0	0	\$0	\$0
	6/18/2018	1452	50	0	0	\$0	\$0
6/18/2018	1520	50	0	0	\$0	\$0	
8/17/2018	1810	50	0	0	\$0	\$0	

<sup>12</sup> Historical events are reported from 1960 through 2023. Magnitude is listed when available. Damage values are in 2024 dollars.

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JURISDICTION	DATE	TIME	MAGNITUDE (knots)	DEATHS	INJURIES	PROPERTY DAMAGE	CROP DAMAGE
	7/30/2019	1714	50	0	0	\$0	\$0
	8/21/2019	1445	50	0	0	\$0	\$0
	5/15/2020	1704	50	0	0	\$0	\$0
	5/15/2020	1706	50	0	0	\$0	\$0
	5/16/2022	1553	50	0	0	\$0	\$0
	7/12/2022	1310	50	0	0	\$0	\$0
	8/4/2022	1535	50	0	0	\$0	\$0
	7/13/2023	1745	50	0	0	\$0	\$0
<b>TOTALS</b>			<b>(MAX EXTENT)</b>	<b>0</b>	<b>0</b>	<b>\$15,200</b>	<b>\$0</b>

Based on the list of historical wind events for the Town of Northumberland, eight of the reported events have occurred since the 2019 Plan.

### *PROBABILITY OF FUTURE EVENTS*

Historical wind events are typically reported on a county-wide basis. While some incidents may be reported at the local municipal level, as indicated above, county level events provide a more robust risk assessment for each participating jurisdiction. According to historical records for the Saratoga County planning area, the Town of Northumberland can expect to experience a wind event every year. This frequency supports a “Highly Likely” probability of future events.

### *VULNERABILITY AND IMPACT*

The Town of Northumberland planning team members identified the following critical facilities as assets that are considered the most important to the planning area. These facilities are susceptible to a range of impacts caused by wind events. Wind impacts to critical facilities are similar across the entire planning area and are listed in detail in the wind hazard profile (Section 19).

**Table S-44. Critical Facilities at Risk**

JURISDICTION	CRITICAL FACILITIES
Town of Northumberland	2 Fire Stations, 1 Municipal Facility, 1 Police Station

According to the American Community Survey (ACS) five-year estimates for 2022, a total of 135 manufactured homes are located in the Town of Northumberland (7 percent of total housing stock). In addition, 27 percent (approximately 528 structures) of the housing units were built before 1980. These structures would typically be built to lower or less stringent construction standards than newer construction and may be more susceptible to damage during significant wind events.

## ANNEX S: TOWN OF NORTHUMBERLAND

**Table S-45. Structures at Greater Risk**

JURISDICTION	SFR STRUCTURES BUILT BEFORE 1980	MANUFACTURED HOMES
Town of Northumberland	528	135

While all citizens are vulnerable to the impacts of wind events, forced relocation and disaster recovery drastically impacts low-income residents who lack the financial means to travel, afford a long-term stay away from home, and to rebuild or repair their homes. The population over 65 in the Town of Northumberland is estimated at 15.7 percent of the Town’s total population and children under the age of 5 are estimated at 4.9 percent. The population with a disability is estimated at 10.3 percent of the Town’s total population. An estimated 6.3 percent of the Town of Northumberland’s population live below the poverty level and 2.4 percent of the populations speak a language other than English (Table S-46).

**Table S-46. Populations at Greater Risk**

JURISDICTION	65 AND OLDER	UNDER 5	WITH A DISABILITY	BELOW POVERTY LEVEL	LIMITED ENGLISH SPEAKING
Town of Northumberland	822	259	541	330	126

Structural impact of wind events experienced in the Town of Northumberland would be considered “Limited,” with injuries or illness treatable with first aid, less than 10 percent of property destroyed and critical facilities shut down for less than 24-hours. Over the 64.5-year reporting period there has been a total of \$15,200 damages (in 2024 dollars) in the Town of Northumberland due to wind events. The estimated average annual loss from a wind event is \$200.

**Table S-47. Estimated Annualized Losses**

JURISDICTION	TOTAL PROPERTY & CROP LOSS	ANNUAL LOSS ESTIMATES
Town of Northumberland	\$15,200	\$200

## ANNEX S: TOWN OF NORTHUMBERLAND

### CLIMATE CHANGE CONSIDERATIONS

The Saratoga County Hazard Mitigation Plan Update provides climate change considerations for all natural hazards for the entire planning area as climate change impacts are considered similar across all participating jurisdictions in Saratoga County unless otherwise stated. Please see Sections 5 through 19 of this Plan Update for additional information on climate change considerations by hazard.

### HUMAN-CAUSED HAZARDS

The Saratoga County Hazard Mitigation Plan update provides a detailed hazard profile for the human-caused hazard invasive species. Information for this hazard is limited and typically reported at the county level. As such, the evaluation of human-caused hazards is considered similar for all jurisdictions in the Saratoga County planning area. Please see Section 20 of this Plan Update for additional information on the human-caused hazard evaluated for this plan.

# ANNEX S: TOWN OF NORTHUMBERLAND

## PREVIOUS MITIGATION ACTIONS

TOWN OF NORTHUMBERLAND PREVIOUS ACTIONS											
Initiative	Mitigation Initiative	Applies to New and/or Existing Structures	Hazards Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline	2025 Analysis
TN-1	Where appropriate, support retrofitting of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for retrofitting based on cost-effectiveness versus relocation. Where retrofitting is determined to be a viable option, consider implementation of that action based on available funding.	Existing	Flood, Severe Storm	1, 2, 3, 5	1-1, 1-2, 1-3, 2-2, 2-3, 2-4, 3-1, 3-5	NFIP Floodplain Administrator	NYS DHSES, FEMA	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Long Term	Defer to plan update.
TN-2	Where appropriate, support purchase, or relocation of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for relocation based on cost-effectiveness versus retrofitting. Where relocation is determined to be a viable option, consider implementation of that action based on available funding.	Existing	Flood, Severe Storm	1, 2, 3, 5	1-1, 1-2, 1-3, 2-2, 2-3, 2-4, 3-1, 3-5	NFIP Floodplain Administrator	NYS DHSES, FEMA	High	FEMA Mitigation Grant Programs and local budget (or property owner) for cost share	Short Term	Defer to plan update.
TN-3	Consider participation in incentive-based programs such as CRS.	New & Existing	Flood	1, 2, 5	1-1, 1-3, 1-6, 2-1, 2-2, 2-3, 2-4, 5-2	NFIP Floodplain Administrator	NYS DHSES, ISO, FEMA	Low - Medium	Local Budget	Short Term	Defer to plan update.
TN-4	Continue to support the implementation, monitoring,	New & Existing	All Hazards	All	All	NFIP Floodplain	County (through Mitigation	Low – High (for 5-year	Local Budget, possibly FEMA	Long Term	Defer to plan update.

# ANNEX S: TOWN OF NORTHUMBERLAND

TOWN OF NORTHUMBERLAND PREVIOUS ACTIONS											
Initiative	Mitigation Initiative	Applies to New and/or Existing Structures	Hazards Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline	2025 Analysis
	maintenance, and updating of this Plan, as defined in Section 7.0.					Administrator	Planning Coordinator), NYS DHSES	update)	Mitigation Grant Funding for 5-year update		
TN-5	Strive to maintain compliance with, and good standing in the National Flood Insurance program.	New & Existing	Flood	1, 2, 4	1-1, 1-2, 1-3, 1-8, 2-2, 2-3, 2-4, 4-1, 4-2, 4-3, 4-4	NFIP Floodplain Administrator	NYS DHSES, ISO, FEMA	Low - Medium	Local Budget	Ongoing	Defer to plan update.
TN-6	Continue to develop, enhance, and implement existing emergency plans.	New & Existing	All Hazards	1, 3	1-1, 1-7, 3-2, 3-4, 3-5	Emergency Management with support from County OEM and NYS DHSES	County Emergency Management, NYS DHSES	Low - Medium	Local Budget	Ongoing	Defer to plan update.
TN-7	Create/enhance/ maintain mutual aid agreements with neighboring communities.	New & Existing	All Hazards	3, 5	3-4, 5-1, 5-3	Emergency Management, DPW and Roads	Surrounding municipalities and County	Low - Medium	Local Budget	Ongoing	Defer to plan update.
TN-8	Support County-wide initiatives identified in Section 9.1 of the County Annex.	New & Existing	All Hazards	All	All	Local departments (as applicable for specific initiative)	County and Regional agencies (as appropriate for initiative)	Low - High	Existing programs and grant funding where applicable	Ongoing	Defer to plan update.
TN-9	Create/update the Emergency Action Plans for all dams located within the municipality.	Existing	Flood, Severe Storm	1, 3	1-1, 1-6, 1-7, 3-1, 3-2, 3-4	NFIP Floodplain Administrator	Watershed districts (if applicable); neighboring municipalities; County (if applicable); NYS	Medium	FEMA	Ongoing – Long-term depending on initiative	Delete Action. Jurisdiction is not profiling dam failure in Plan Update.
TN-10	Implement dam structure repairs as required by dam safety report/protocols.	Existing	Flood	3	3-1, 3-3, 3-6	NFIP Floodplain Administrator; Engineering Department	Watershed districts (if applicable); neighboring municipalities; County (if applicable); NYS	Medium	FEMA HMA	Long Term	Delete Action. Jurisdiction is not profiling dam failure in Plan Update.

## ANNEX S: TOWN OF NORTHUMBERLAND

TOWN OF NORTHUMBERLAND PREVIOUS ACTIONS											
Initiative	Mitigation Initiative	Applies to New and/or Existing Structures	Hazards Mitigated	Goals Met	Objectives Met	Lead	Support	Estimated Cost	Sources of Funding	Timeline	2025 Analysis
TN-11	Support the Installation/Implementation of Community Emergency Alert System.	New & Existing	All Hazards	1, 3, 5	1-1, 3-1, 3-3, 3-5, 3-6, 5-1	LEMC	Watershed districts (if applicable); neighboring municipalities; County (if applicable); NYS	Medium	FEMA HMA	Ongoing- to be completed in 2010	Defer to plan update.
TN-12	Create a mitigation support fund to provide matching funds on an ongoing basis for municipality and residential mitigation projects which will fund cost-sharing portions of projects and be replenished during the annual budget cycle.	New & Existing	All Hazards	1, 2, 3, 5	1-3, 1-9, 2-5, 3-1, 5-2	Town Board	Not Provided	Medium	Operating Budget	Short Term	Defer to plan update.
TN-13	Mitigate Brownville Road Flooding by installing new 8' by 40' culvert and increasing sub-base material to a depth of 18"-24" above existing grad & repave.	New	Flood	1	1-1, 1-8	Town of Northumberland Highway Department	Not Provided	Low	Local Budget	Short Term	Defer to plan update. In progress. Awaiting approval from DEC.
TN-14	Mitigate flooding of Wells Lane by increasing the sub-base material by two-feet compacted and installing two more 15" by 40' culverts two allow disbursement.	New & Existing	Flood	1	1-1, 1-8	Town of Northumberland Highway Department	Not Provided	Low	Local Budget	Short Term	Completed.



# ANNEX S: TOWN OF NORTHUMBERLAND

## NEW MITIGATION ACTIONS

TOWN OF NORTHUMBERLAND MITIGATION ACTIONS														
*Projects related to Critical Facilities (CF) will protect the facility to the 500-year event or worst damage scenario, whichever is greater.														
Project #	Goal / Objective being Met	Hazard to be Mitigated	Project Name and Description of the Problem	Description of the Solution	CF?*	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Community Lifeline	Action Type
1	1.4 3.1	Flood	Culvert and drainage upgrades: Throughout the community culverts are undersized and in need of replacement. The hydraulic capacity of this structure may not comply with commonly accepted standards. This project protects the community and reduces the risk of flooding.	Assess the current drainage issue at Colebrook Road. Based on assessment development necessary mitigation improvement to allow disbursement of stormwater and reducing flood risk.	No	Further review required	60 months	Town of Northumberland Highway Department	\$200,000	Reduce risk of flood damages through improved drainage capacity; Reduce risk of injuries to citizens; Reduce burden on emergency services during and after a flood event.	Local Department Budget; HMGP, BRIC, CDBG, PA 406 (when applicable) local bonds	H	Safety/Security Water Systems Transportation	Structure and Infrastructure
2	1.1 1.4 3.2	Flood, Hail, Hurricane/Tropical Storm, Ice Storm, Lightning, Snowstorm Tornado, Wind	Retrofit RL/SRL Structures: Structures located in known hazard-prone areas are subject to repetitive damage. This project protects infrastructure, reduces cost of reparation, and prevents injury to residents.	Where appropriate, support retrofitting of structures located in hazard-prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for retrofitting based on cost- effectiveness versus relocation. Where retrofitting is determined to be a viable option, consider	Yes	Further review required	60 Months	NFIP Floodplain Administrator	\$1,000,000	Reduce the risk of damage and the loss of life.	Local Department Budget; HMGP, BRIC, CDBG, PA 406 (when applicable) local bonds	H	Safety/Security	Structure and Infrastructure

# ANNEX S: TOWN OF NORTHUMBERLAND

## TOWN OF NORTHUMBERLAND MITIGATION ACTIONS

\*Projects related to Critical Facilities (CF) will protect the facility to the 500-year event or worst damage scenario, whichever is greater.

Project #	Goal / Objective being Met	Hazard to be Mitigated	Project Name and Description of the Problem	Description of the Solution	CF?*	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Community Lifeline	Action Type
				implementation of that action based on available funding.										
3	1.1 1.4 3.2	Flood	Relocate Structures: Structures located in known hazard-prone areas are subject to repetitive damage. This project protects infrastructure, reduces cost of reparation, and prevents injury to residents.	Where appropriate, support purchase, or relocation of structures located in hazard prone areas to protect structures from future damage, with repetitive loss and severe repetitive loss properties as priority. Identify facilities that are viable candidates for relocation based on cost-effectiveness versus retrofitting. Where relocation is determined to be a viable option, consider implementation of that action based on available funding.	Yes	Further review required	60 Months	NFIP Floodplain Administrator	\$1,000,000	Reduce the risk of damage and loss of life.	Local Department Budget; HMGP, BRIC, CDBG, PA 406 (when applicable) local bonds	H	Safety/Security	Structure and Infrastructure
4	1.4 2.3	Flood	Community Rating System: By exploring the CRS program the County would potentially receive insurance premium rates that are discounted to reflect the reduced flood risk resulting from the	Consider participation in incentive-based programs such as CRS.	Yes	N/A	36 Months	NFIP Floodplain Administrator	\$10,000	Reduce flood insurance premiums for local residents; Reduce flood risk and build resiliency.	Local Department Budget, Staff time	M	Safety/Security	Local Plans and Regulations

# ANNEX S: TOWN OF NORTHUMBERLAND

## TOWN OF NORTHUMBERLAND MITIGATION ACTIONS

\*Projects related to Critical Facilities (CF) will protect the facility to the 500-year event or worst damage scenario, whichever is greater.

Project #	Goal / Objective being Met	Hazard to be Mitigated	Project Name and Description of the Problem	Description of the Solution	CF?*	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Community Lifeline	Action Type
			community's efforts to reduce and avoid flood damage to insurable property, strengthen and support the insurance aspects of the National Flood Insurance Program and foster comprehensive floodplain management. This project promotes public safety.											
5	1.3	Drought, Earthquake, Extreme Cold, Extreme Heat, Flood, Hail, Hurricane/Tropical Storm, Ice Storm, Landslide, Lightning, Snowstorm, Tornado, Wildfire, Wind, Invasive Species	Implementation, Monitoring, and Maintenance: There is a need to ensure a structured approach to guarantee that the Plan remains updated, effective, and aligned with its goals. This project promotes public safety.	Continue to support the implementation, monitoring, maintenance, and updating of this Plan, as defined in Section 24.	No	N/A	12-60 Months	NFIP Floodplain Administrator	\$10,000	Ensure local hazard mitigation plan remains updated and effective; Ensure local jurisdictions remain aligned with the Plans goals and risk reduction activities.	Local Department Budget, Staff time	H	Safety/Security	Local Plans and Regulations
6	1.3	Flood	NFIP Participation: Failure to adhere to NFIP requirements can result in loss of program benefits, increased flood risk, and	Strive to maintain compliance with, and good standing in the	Yes	N/A	60 Months	NFIP Floodplain Administrator	\$10,000	Reduce flood insurance premiums for local residents; Reduce flood risk and build resiliency.	Local Department Budget, Staff time	M	Safety/Security	Local Plans and Regulations

# ANNEX S: TOWN OF NORTHUMBERLAND

## TOWN OF NORTHUMBERLAND MITIGATION ACTIONS

\*Projects related to Critical Facilities (CF) will protect the facility to the 500-year event or worst damage scenario, whichever is greater.

Project #	Goal / Objective being Met	Hazard to be Mitigated	Project Name and Description of the Problem	Description of the Solution	CF?*	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Community Lifeline	Action Type
			financial burdens for residents. There is a need to ensure compliance with NFIP standards to protect the community and secure affordable flood insurance options. This project promotes public safety.	National Flood Insurance program.										
7	1.3	Drought, Earthquake, Extreme Cold, Extreme Heat, Flood, Hail, Hurricane/Tropical Storm, Ice Storm, Landslide, Lightning, Snowstorm, Tornado, Wildfire, Wind, Invasive Species	Develop, enhance, and implement: There is a need to ensure a structured approach to guarantee that the Plan remains updated, effective, and aligned with its goals. This project promotes public safety by addressing all hazards and being NIMS compliant while working with the Emergency Operations Plan.	Continue to develop, enhance, and implement existing emergency plans.	No	N/A	12-60 Months	Emergency Management with support from County OEM and NYS DHSES	\$10,000	Ensure all plans are updated and aligned with one another; Ensure local jurisdictions remain aligned with the Plans goals and risk reduction activities.	Local Department Budget, Staff time	H	Safety/Security	Local Plans and Regulations
8	5.1 5.2 5.3	Drought, Earthquake, Extreme Cold, Extreme Heat, Flood, Hail, Hurricane/	Create, enhance, and maintain: Mutual aid agreements are crucial in disaster or emergency situations. Ensuring that mutual aid agreements are up to date will ensure that neighboring	Create/enhance/maintain mutual aid agreements with neighboring communities.	No	N/A	36-48 Months	Emergency Management, DPW and Roads	\$10,000	Ensure mutual aid agreements remain updated and effective; Ensure local jurisdictions remain aligned with one another and ready to assist when	Local Department Budget, Staff time	H	Safety/Security	Preparedness

# ANNEX S: TOWN OF NORTHUMBERLAND

## TOWN OF NORTHUMBERLAND MITIGATION ACTIONS

\*Projects related to Critical Facilities (CF) will protect the facility to the 500-year event or worst damage scenario, whichever is greater.

Project #	Goal / Objective being Met	Hazard to be Mitigated	Project Name and Description of the Problem	Description of the Solution	CF?*	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Community Lifeline	Action Type
		Tropical Storm, Ice Storm, Landslide, Lightning, Snowstorm, Tornado, Wildfire, Wind	communities can help one another in a timely manner. This project promotes public safety.							needed.				
9	2.1	Drought, Earthquake, Extreme Cold, Extreme Heat, Flood, Hail, Hurricane/Tropical Storm, Ice Storm, Landslide, Lightning, Snowstorm, Tornado, Wildfire, Wind, Invasive Species	Emergency Notification System: The general public may not have the means to access educational material or notification alerts. By establishing an area wide notification system ensures community members are aware of risk and able to prepare for the impact. This project promotes public safety.	Support the Installation/ Implementation of Community Emergency Alert System.	No	N/A	24-36 Months	LEMC	\$100,000	Reduce risk to residents through improved communication and early warning.	Local Department Budget; HMGP, BRIC, CDBG, PA 406 (when applicable) local bonds	H	Communication Safety/Security	Education and Awareness
10	3.1	Drought, Earthquake, Extreme Cold, Extreme	Public Awareness Program: The general public may not be aware of the risk of hazards that could impact the County.	Create a mitigation support fund to provide matching funds on an ongoing basis for municipality and	No	N/A	60 Months	Town Board	\$10,000	Reduce the risk of damage and the loss of life.	Local Department Budget, Staff time	M	Safety/Security	Preparedness

# ANNEX S: TOWN OF NORTHUMBERLAND

## TOWN OF NORTHUMBERLAND MITIGATION ACTIONS

\*Projects related to Critical Facilities (CF) will protect the facility to the 500-year event or worst damage scenario, whichever is greater.

Project #	Goal / Objective being Met	Hazard to be Mitigated	Project Name and Description of the Problem	Description of the Solution	CF?*	EHP Issues	Estimated Timeline	Lead Agency	Estimated Costs	Estimated Benefits	Potential Funding Sources	Priority	Community Lifeline	Action Type
		Heat, Flood, Hail, Hurricane/Tropical Storm, Ice Storm, Landslide, Lightning, Snowstorm, Tornado, Wildfire, Wind, Invasive Species	Creating a support fund could encourage community members to support mitigation projects and costs associated with them. This project promotes public safety.	residential mitigation projects which will fund cost-sharing portions of projects and be replenished during the annual budget cycle.										
11	1.1	Flood	Culvert and drainage upgrades: Throughout the community culverts are undersized and in need of replacement. The hydraulic capacity of this structure may not comply with commonly accepted standards. This project protects the community and reduces the risk of flooding.	Mitigate Brownville Road Flooding by installing new 8' by 40' culvert and increasing sub-base material to a depth of 18"-24" above existing grad & repave.	No	Further review required	60 months	Town of Northumberland Highway Department	\$500,000	Reduce risk of flood damages through improved drainage capacity; Reduce risk of injuries to citizens; Reduce burden on emergency services during and after a flood event.	Local Department Budget; HMGP, BRIC, CDBG, PA 406 (when applicable) local bonds	H	Safety/Security Water Systems Transportation	Structure and Infrastructure

# ANNEX S: TOWN OF NORTHUMBERLAND

## CAPABILITY ASSESSMENT

COMMUNITY CAPABILITY CHECKLIST	TOWN OF NORTHUMBERLAND
<b>PLANS</b>	
Basic Plan/Floodplain Management Plan	X
Capital Improvements Plan	
Climate Change Adaptation Plan	
Community Wildfire Protection Plan	
Comprehensive / Master Plan / Land Use Plan	X
Continuity of Operations Plan	
Drought Contingency Plan/Protocol on Water Restrictions	
Economic Development Plan	
Emergency Management/Response Action Plan	X
Emergency Operations Plan	
Evacuation Plan	
Extreme Heat Protocol	
Hazard Mitigation Plan	X
Open Space Plan	X
Post Disaster Recovery Plan	X
Shoreline Management Plan/Ordinance	
Stormwater Management Plan / Ordinance	X
Transportation Plan	
<b>POLICIES/ORDINANCES</b>	
Building Codes	X
Fire Code	X
Floodplain Ordinance	X
Manufactured Home Restrictions	
Post Disaster Recovery Ordinance	X
Real Estate Disclosure Requirement	

## ANNEX S: TOWN OF NORTHUMBERLAND

COMMUNITY CAPABILITY CHECKLIST	TOWN OF NORTHUMBERLAND
Site Plan Review Requirements	X
Stormwater Ordinance	
Subdivision Regulations	X
Wildfire Ordinance	
Zoning Ordinance/Land Use Restrictions	X
Other (Special Purpose Ordinance (i.e., critical or sensitive areas))	X
PROGRAMS	
Firewise Communities	
Floodplain Maps/Flood Insurance Studies	X
Growth Management	X
Hydrologic/Hydraulic Studies	
Mutual Aid Agreement	
National Flood Insurance Program Participant	X
NFIP Community Rating System Participant	
Property Acquisition Program	
Public Education/Awareness Programs	
Storm Drainage Systems Maintenance Program	
Stream Maintenance Program	
StormReady Communities	
Warning Systems/Services (reverse 911, outdoor warning sirens)	
STAFF / DEPARTMENTS	
Building Code Official	X
Emergency Manager	X
Engineers or Planners with Knowledge of Land Development and Land Management Practices	X
Engineers or Professionals Trained in Constructions Practices Related to Buildings and/or Infrastructure	X
Environmental Conservation Specialist	
Floodplain Administrator	X
Geographic Information System (GIS) Coordinator	



ANNEX S: TOWN OF NORTHUMBERLAND

COMMUNITY CAPABILITY CHECKLIST	TOWN OF NORTHUMBERLAND
Personnel with Hazard Knowledge	X
Planners	
Public Information Official	
Resource Development/Grant Writer	
Surveyors	