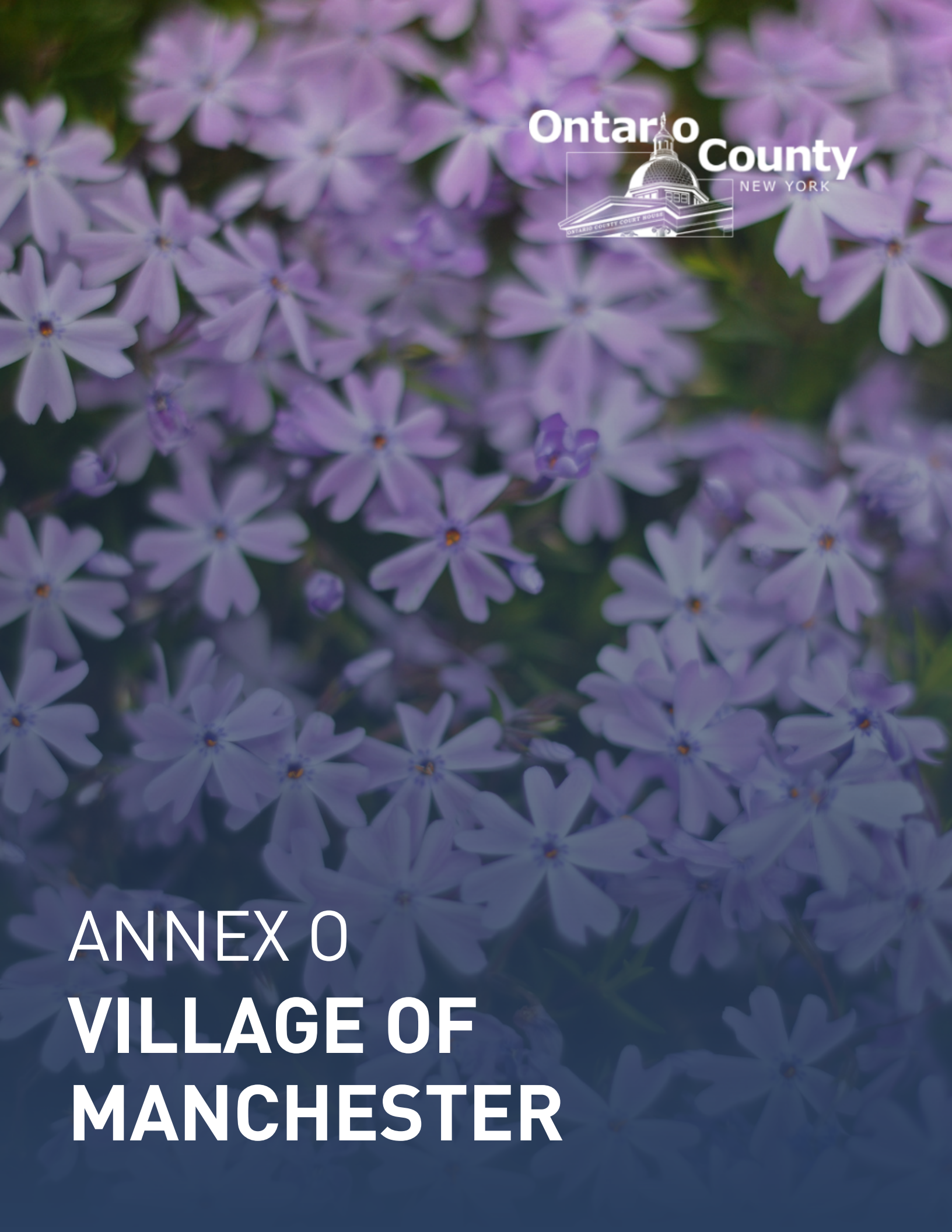

ANNEX O
VILLAGE OF MANCHESTER

ANNEX O: VILLAGE OF MANCHESTER

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ANNEX O: VILLAGE OF MANCHESTER

JURISDICTION PROFILE

OVERVIEW

The Village of Manchester is in Ontario County, New York with a population of just over 1,600. The village is within the Town of Manchester and is located in the southwest part of the town, north of Canandaigua. According to the United States Census Bureau, the village has a total of 1.2 square miles, all land. New York State Route 21 passes through the village and is located immediately south of the New York State Thruway and New York State Route 96. Figure O-1 shows the general location of the Village of Manchester.

VILLAGE OF MANCHESTER CONTACT INFORMATION

Name: Michael J. Buttaccio

Title: Mayor

Phone: (585) 289-4340

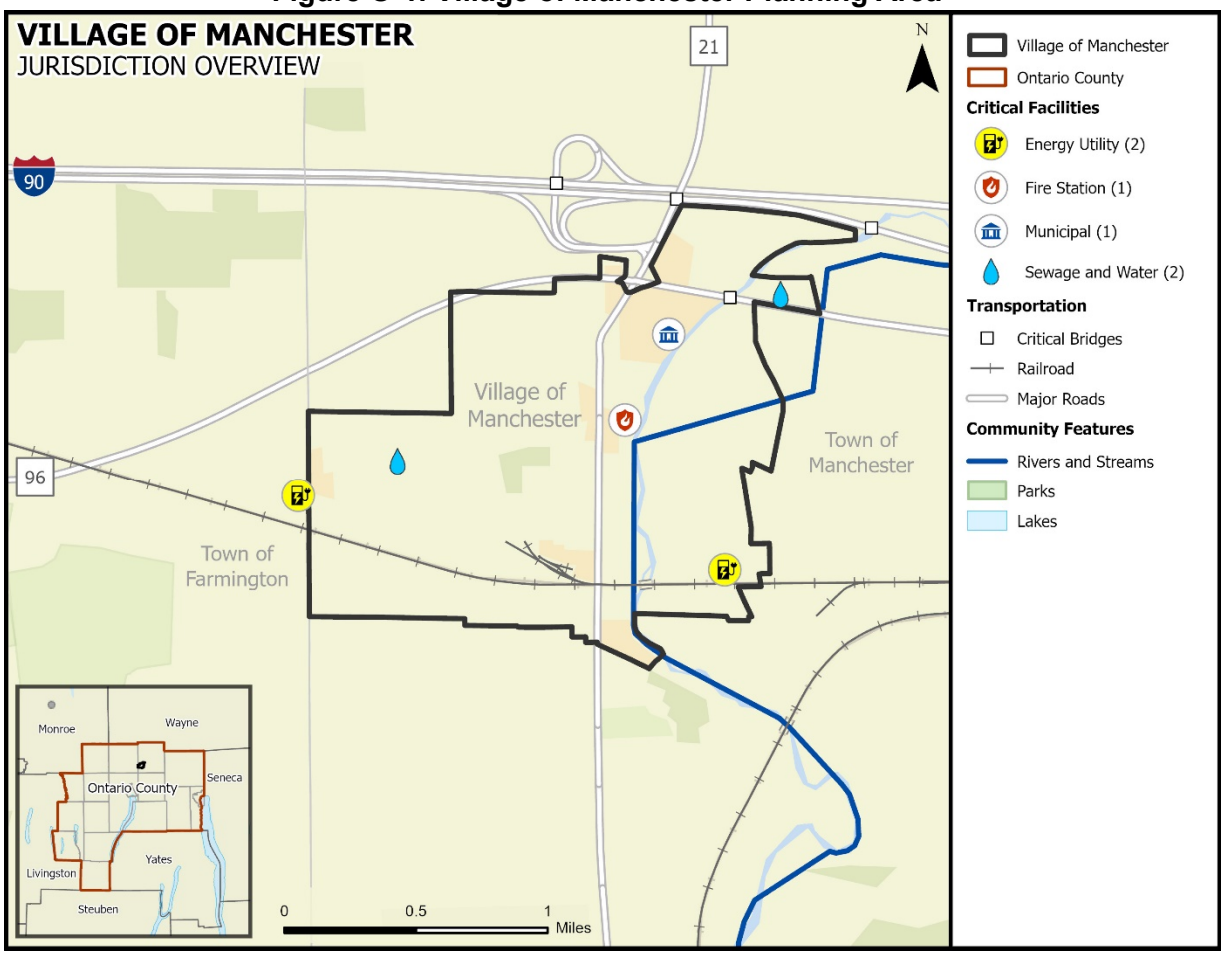
Address: 8 Clifton Street, Manchester, NY 14504

Email: rjg@rochester.rr.com

NOTE TO THE REVIEWER

It is noted that the Village of Manchester and the Town of Manchester are not listed separately in the NCEI. The NCEI is the most reliable source for historical storm event data. While the plan incorporates local and team input for historical events, for the purposes of this evaluation, both jurisdictions will be evaluated as equal entities with similar exposure and vulnerability due to their close proximity.

Figure O-1. Village of Manchester Planning Area[1]



POPULATION AND DEMOGRAPHICS

According to the 2020 Census population count, the Village of Manchester has an official population of 1,640 residents, a 4 percent decrease since the 2010 census. Table O-1 summarizes select characteristics of vulnerable or sensitive populations in the Village of Manchester using data from the U.S. Census Bureau 2021 American Community Survey (ACS) five-year estimates. Note that in some cases the 2021 ACS estimates may differ from the 2020 Census count; the ACS estimates are used throughout this section for consistency.[2]

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.

[1] Map sources: ESRI OpenStreetMap (Custom: no labels), Census TIGER/LINE (2022), Ontario County Information Technology Department (2023)

[2] Source: https://www.census.gov/en.html and https://www.census.gov/acs/www/data/data-tables-and-tools/data-profiles/2021/

ANNEX O: VILLAGE OF MANCHESTER

Table O-1. Population Distribution for the Village of Manchester

JURISDICTION	TOTAL 2010 POPULATION	TOTAL 2021 POPULATION	PERCENTAGE CHANGE	ESTIMATED VULNERABLE OR SENSITIVE POPULATIONS[3]		
				Youth (Under 5)	Elderly (Over 65)	Below Poverty Level
Village of Manchester	1,709	1,507	-11.8	67	318	133

POPULATION GROWTH

The official 2020 Village of Manchester population is 1,640. Overall, the Village of Manchester experienced an increase in population between 1990 and 2020 of 2.6 percent, or an increase by 42 residents. Between 2010 and 2020, the Village of Manchester experienced a population decline. Table O-2 provides historic change rates in the Village of Manchester.

Table O-2. Population Growth for the Village of Manchester, 1990-2020[4]

JURISDICTION	1990[5]	2000[6]	2010	2020	POP CHANGE 1990-2020	PERCENT OF CHANGE	POP CHANGE 2010-2020	PERCENT OF CHANGE
Village of Manchester	1,598	1,475	1,709	1,640	42	2.6%	-69	-4.0%

FUTURE DEVELOPMENT

To better understand how future growth and development in the Village of Manchester 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 O-3, as provided by Cornell University's Program on Applied Demographics[7]. **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.

[3] The Estimated Vulnerable or Sensitive Populations are based off the 2021 American Community Survey 5-Year Estimates Data Profiles.
[4] U.S. Census Bureau
[5] Source: https://www2.census.gov/library/publications/decennial/1990/cp-1/cp-1-34-2.pdf?#
[6] Source: https://www2.census.gov/library/publications/2003/dec/phc-3-34.pdf
[7] Source: https://pad.human.cornell.edu/counties/projections.cfm

Table O-3. Ontario County Population Projections

LAND AREA (SQ MI)	2010		2020		2030		2040	
	Population							
	Total Number	Density (Land Area, SQ MI)	Total Number	Density (Land Area, SQ MI)	Total Number	Density (Land Area, SQ MI)	Total Number	Density (Land Area, SQ MI)
644	107,931	167.59	111,349	172.90	114,374	177.60	114,770	178.21

PLAN MAINTENANCE

The Ontario 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 27 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 O-4 indicates the department and title of the party responsible for Plan monitoring, evaluating, updating, and review of the Plan.

Table O-4. Team Member Responsible for Plan Monitoring, Evaluating, Updating, and Review of the Plan

JURISDICTION	TITLE
Village of Manchester	Mayor

PUBLIC PARTICIPATION

A series of public meetings were held throughout the Ontario 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 Village of Manchester's website. A total of three surveys were completed for the Village of Manchester. 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 Ontario 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.

ANNEX O: VILLAGE OF MANCHESTER

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 Village of Manchester'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 X (formerly known as Twitter), will keep the public and stakeholders apprised of potential opportunities to fund and implement mitigation projects identified in the Plan.

HAZARD PROFILES

DAM FAILURE

The Village of Manchester is not profiling dam failure. The Village of Manchester 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.

DROUGHT

HAZARD DESCRIPTION, LOCATION, EXTENT, & HISTORICAL OCCURRENCES

The Ontario 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 Village of Manchester, 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 Ontario County planning area, the Village of Manchester 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 Ontario County planning area, including the Village of Manchester, 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 Village of Manchester 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 Section 6. The following critical facilities would be vulnerable to drought events in the Village of Manchester:

Table O-5. Critical Facilities at Risk

JURISDICTION	CRITICAL FACILITIES
Village of Manchester	2 Energy Utility Facility, 1 Fire Station, 1 Municipal Building, 2 Sewage and Water Facilities

The population over 65 in the Village of Manchester is estimated at 21 percent of the Village's total population and children under the age of 5 are estimated at 4 percent, or an estimated total of 385 potentially vulnerable residents in the Village of Manchester based on age. In addition, an estimated 9 percent of the Village of Manchester's population live below the poverty level (Table O-6).

Table O-6. Populations at Greater Risk

JURISDICTION	POPULATION 65 AND OLDER	POPULATION UNDER 5	POPULATION BELOW POVERTY LEVEL
Village of Manchester	318	67	133

Historic events and losses are reported on a county-wide basis. All existing and future buildings, facilities, and populations are exposed to this hazard and could potentially be impacted. 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. Please see Section 6 of this Plan for additional information on historical and annualized losses for the entire planning area.

EXTREME COLD

HAZARD DESCRIPTION, LOCATION, EXTENT, & HISTORICAL OCCURRENCES

The Ontario County Hazard Mitigation Plan Update provides a hazard description, location, and extent of the extreme cold hazard for each participating jurisdiction (Section 7). 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, frost/freeze, and winter weather. Historical extreme cold data for the County, including the Village of Manchester, are provided on a county-wide basis per the NCEI database. Therefore, all historical events are listed in Section 7 of the Plan Update.

PROBABILITY OF FUTURE EVENTS

According to historical records for the Ontario County planning area, the Village of Manchester can expect to experience an extreme cold event approximately once a three year. This frequency supports a "Highly Likely" probability of future events.

VULNERABILITY AND IMPACT

While the entirety of the Ontario County planning area, including the Village of Manchester, is exposed to extreme cold events, existing buildings, infrastructure, and critical facilities are not likely to sustain significant damage from these events. However, the Village of Manchester planning team members identified the following critical facilities (Table O-7) 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 Section 7. The following critical facilities would be vulnerable to extreme cold events in the Village of Manchester:

Table O-7. Critical Facilities at Risk

JURISDICTION	CRITICAL FACILITIES
Village of Manchester	2 Energy Utility Facility, 1 Fire Station, 1 Municipal Building, 2 Sewage and Water Facilities

The population over 65 in the Village of Manchester is estimated at 21 percent of the Village's total population and children under the age of 5 are estimated at 4 percent, or an estimated total of 385 potentially vulnerable residents in the Village of Manchester based on age. In addition, an estimated 9 percent of the Village of Manchester's population live below the poverty level (Table O-8).

Table O-8. Populations at Greater Risk

JURISDICTION	POPULATION 65 AND OLDER	POPULATION UNDER 5	POPULATION BELOW POVERTY LEVEL
Village of Manchester	318	67	133

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.

EXTREME HEAT

HAZARD DESCRIPTION, LOCATION, EXTENT, & HISTORICAL OCCURRENCES

The Ontario County Hazard Mitigation Plan Update provides a hazard description, location, and extent of the extreme heat hazard for each participating jurisdiction (Section 8). 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 Village of Manchester, 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 Ontario County planning area, the Village of Manchester can expect to experience an extreme heat event approximately once a year. This frequency supports a "Highly Likely" probability of future events.

VULNERABILITY AND IMPACT

While the entirety of the Ontario County planning area, including the Village of Manchester, is exposed to extreme heat events, existing buildings, infrastructure, and critical facilities are not likely to sustain significant damage from these events. However, the Village of Manchester planning team members identified the following critical facilities (Table O-9) 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 Section 8. The following critical facilities would be vulnerable to extreme heat events in the Village of Manchester:

Table O-9. Critical Facilities at Risk

JURISDICTION	CRITICAL FACILITIES
Village of Manchester	2 Energy Utility Facility, 1 Fire Station, 1 Municipal Building, 2 Sewage and Water Facilities

The population over 65 in the Village of Manchester is estimated at 21 percent of the Village's total population and children under the age of 5 are estimated at 4 percent, or an estimated total of 385 potentially vulnerable residents in the Village of Manchester based on age. In addition, an estimated 9 percent of the Village of Manchester's population live below the poverty level (Table O-10).

Table O-10. Populations at Greater Risk

JURISDICTION	POPULATION 65 AND OLDER	POPULATION UNDER 5	POPULATION BELOW POVERTY LEVEL
Village of Manchester	318	67	133

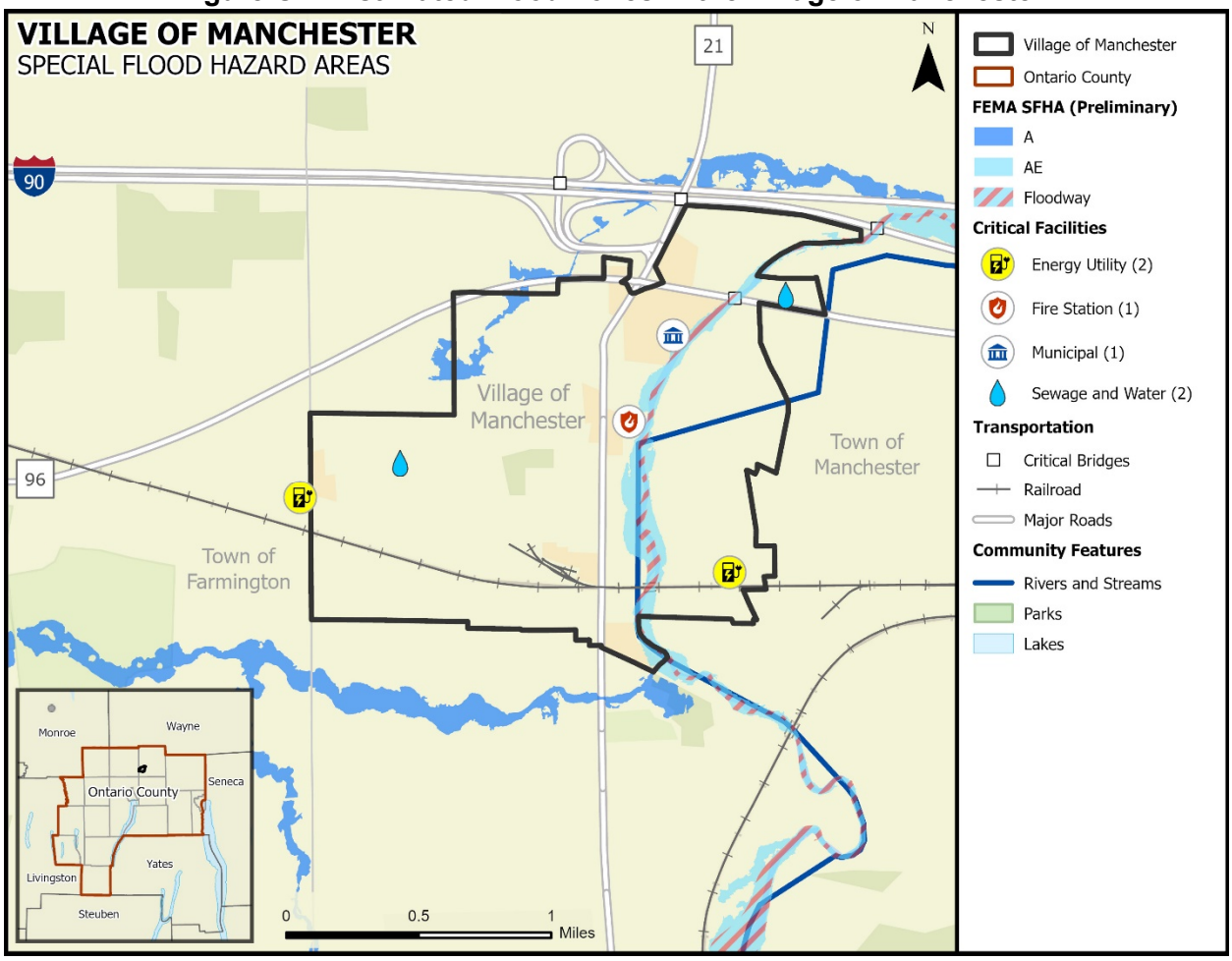
Historic losses are reported on a county-wide basis. Please see Section 8 of this Plan for additional information on historical and annualized losses for the entire planning area.

FLOOD

HAZARD DESCRIPTION, LOCATION, & EXTENT

The Ontario County Hazard Mitigation Plan Update provides a hazard description and extent of the flood hazard for the entire Ontario County planning area in Section 9. Flood hazard delineations with elevations are available in portions of the Village of Manchester, some areas feature flood hazard boundary maps only with no flood elevations. The location of estimated flood zones for the Village of Manchester based on the Digital Flood Insurance Rate Maps (DFIRM) from FEMA is illustrated in Figure O-2.

Figure O-2. Estimated Flood Zones in the Village of Manchester[8]



HISTORICAL OCCURRENCES

According to the Storm Prediction Center (NOAA), National Centers for Environmental Information (NCEI) database for Ontario County, no flood events were known to have impacted the Village of Manchester from January 1996 through to August 2023. Flood events are often reported on a county-wide basis, or under-reported for individual municipalities, particularly in smaller communities.

[8] Map sources: ESRI OpenStreetMap (Custom: no labels), Census TIGER/LINE (2022), Ontario County Information Technology Department (2023), Ontario County Preliminary Flood Data (2023)

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 Ontario County planning area, the Village of Manchester can expect to experience approximately two to three flood events every year. This frequency supports a "Highly Likely" probability of future events.

VULNERABILITY AND IMPACT

The Village of Manchester 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. No critical facilities in the Village of Manchester are located in the floodplain.

Historic loss estimates due to flood are presented in Table O-11 below.

Table O-11. Potential Annualized Losses, 1996-2023[9]

JURISDICTION	NUMBER OF EVENTS	PROPERTY & CROP LOSS	ANNUAL LOSS ESTIMATES
Village of Manchester	0	$0	$0

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. An estimated 9 percent of the Village of Manchester's population live below the poverty level (Table O-12). While warning times for these type of hazard events should be substantial enough for individuals to seek shelter, individuals who work and recreate outside are also vulnerable to potential impacts of a flood event.

Table O-12. Populations at Greatest Risk

JURISDICTION	POPULATION BELOW POVERTY LEVEL
Village of Manchester	133

The severity of a flooding event varies depending on the relative risk to citizens and structures located within each jurisdiction. Table O-13 depicts the level of impact for the Village of Manchester.

Table O-13 Village of Manchester Impact

JURISDICTION	IMPACT	DESCRIPTION
Village of Manchester	Limited	It is anticipated that the Village could anticipate an impact of "limited" with critical facilities shut down for a week or less, and less than 10 percent of property would be destroyed or damaged.

[9] Historical events are reported from January 1996 through August 2023; values are in 2023 dollars.

ANNEX O: VILLAGE OF MANCHESTER

NATIONAL FLOOD INSURANCE PROGRAM (NFIP) PARTICIPATION

The Village of Manchester 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 Village of Manchester has developed mitigation actions that relate to NFIP participation, maintenance or compliance. Flooding was identified by the Village of Manchester as a low-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 Village of Manchester Code Enforcement Officer 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. The floodplain administrator is responsible for

- Permitting and inspecting construction activity in the floodplain
- 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 O-14 provides the most recent CAC/CAV dates along with the current status for the jurisdiction.

Table O-14. Compliance History

JURISDICTION	DATE OF LAST CAC	DATE OF LAST CAV	CURRENT NFIP STATUS	POLICIES IN FORCE
Village of Manchester	N/A	N/A	Good Standing	0

REPETITIVE LOSS

The Village of Manchester currently has no repetitive loss or severe repetitive loss properties.

HAIL

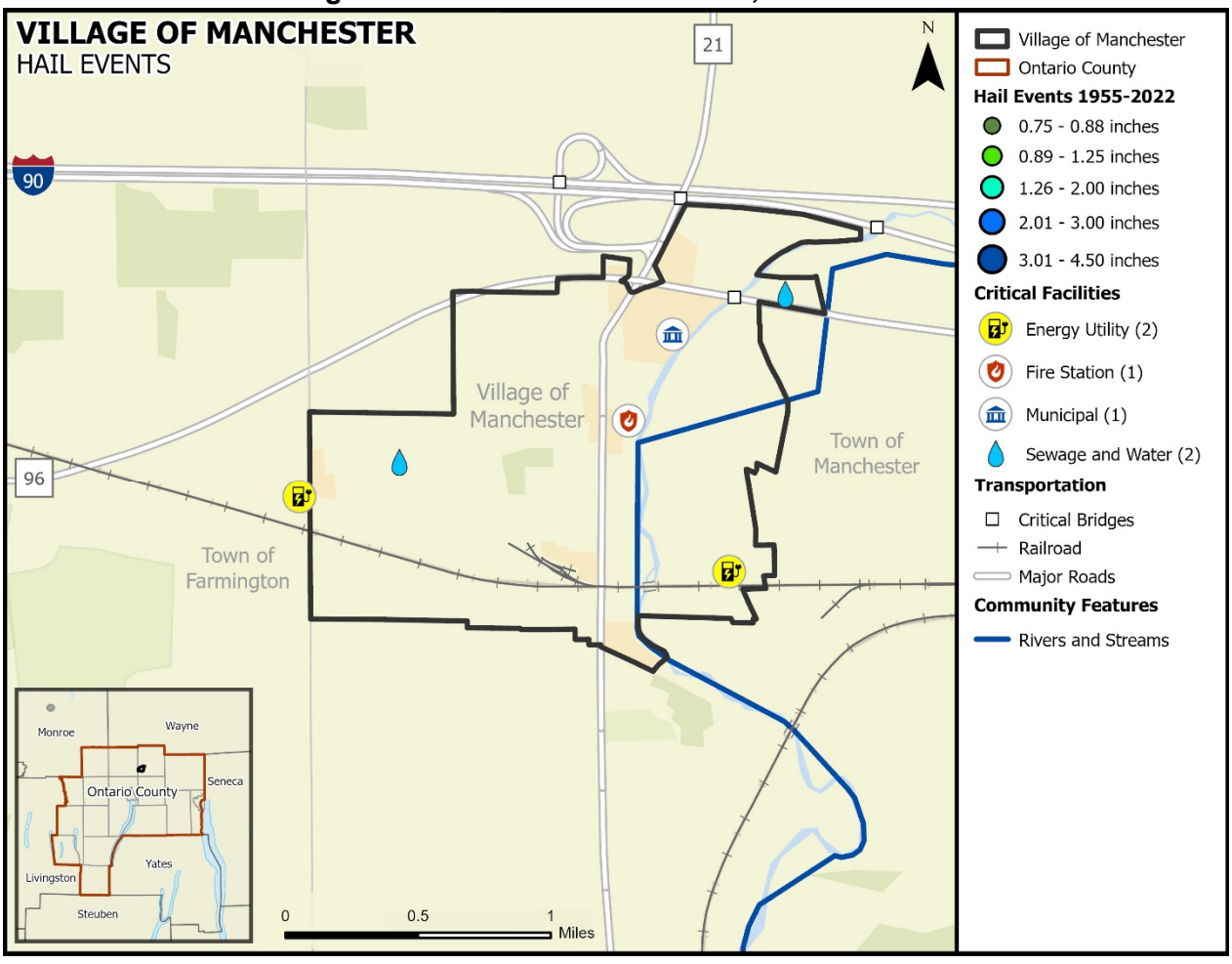
HAZARD DESCRIPTION, LOCATION, & EXTENT

The Ontario County Hazard Mitigation Plan Update provides a hazard description, location and extent of the hail hazard for each participating jurisdiction (Section 10). 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 O-3 demonstrates that the Village of Manchester is vulnerable to hail events overall. Historical events with reported damages, injuries, or fatalities are shown in Table O-15. A total of two reported historical hail events impacted the Village of Manchester between January 1956 through August 2023; these events were reported to NCEI and NOAA databases and may not represent all hail events to have occurred during the past 67.5 years. Only those events for the Village of Manchester with latitude and longitude available were plotted (Figure O-3).

Figure O-3. Historical Hail Events, 1956-2023[10]



[10] Map sources: ESRI OpenStreetMap (Custom: no labels), Census TIGER/LINE (2022), Ontario County Information Technology Department (2023), NOAA Storm Events Database (2023)

Table O-15. Historical Hail Events, 1956-2023[11]

JURISDICTION	DATE	MAGNITUDE (Inches)	DEATHS	INJURIES	PROPERTY DAMAGE	CROP DAMAGE
Town and Village of Manchester	6/16/2008	1.5	0	0	$67,676	$1,624,227
	6/16/2022	1.25	0	0	$0	$0
TOTALS		**(Max Extent)**	**0**	**0**	**$67,676**	**$1,624,227**

Based on the list of historical hail events for the Village of Manchester, one reported event has occurred since the 2018 Plan.

PROBABILITY OF FUTURE EVENTS

Historical hail events are often 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 Ontario County planning area, the Village of Manchester can expect a hail event approximately once per year. This frequency supports a "Highly Likely" probability of future events.

VULNERABILITY AND IMPACT

The Village of Manchester 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 Section 10.

Table O-16. Critical Facilities at Risk

JURISDICTION	CRITICAL FACILITIES
Village of Manchester	2 Energy Utility Facility, 1 Fire Station, 1 Municipal Building, 2 Sewage and Water Facilities

According to the American Community Survey (ACS) five-year estimates for 2021, a total of 164 manufactured homes are located in the Village of Manchester (23 percent of total housing stock). In addition, 75 percent (approximately 525 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 hail events.

Table O-17. Structures at Greater Risk

JURISDICTION	SFR STRUCTURES BUILT BEFORE 1980	MANUFACTURED HOMES
Village of Manchester	525	164

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. An estimated 9 percent of the Village of Manchester's population live below the poverty level (Table O-18).

[11] Historical events are reported from January 1956 through August 2023. Only recorded events with fatalities, injuries, and/or damages are listed; values are in 2023 dollars.

Table O-18. Populations at Greatest Risk

JURISDICTION	POPULATION BELOW POVERTY LEVEL
Village of Manchester	133

Overall, the total loss estimate of property and crops in the Village of Manchester is $1,691,903 with an average annualized loss of $25,065. Based on historic loss and damages, the impact of hail damages on the Village of Manchester 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 O-19. Estimated Annualized Losses

JURISDICTION	TOTAL PROPERTY & CROP LOSS	ANNUAL LOSS ESTIMATE
Town and Village of Manchester	$1,691,903	$25,065

ICE STORM

HAZARD DESCRIPTION, LOCATION, EXTENT, & HISTORICAL OCCURRENCES

The Ontario County Hazard Mitigation Plan Update provides a hazard description, location, and extent of the ice storm hazard for each participating jurisdiction (Section 11). 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 Village of Manchester, are provided on a county-wide basis per the NCEI database. Therefore, all historical events are listed in Section 11 of the Plan Update.

PROBABILITY OF FUTURE EVENTS

According to historical records for the Ontario County planning area, the Village of Manchester can expect to experience an ice storm event approximately once every five years. This frequency supports an "Occasional" probability of future events.

VULNERABILITY AND IMPACT

While the entirety of the Ontario County planning area, including the Village of Manchester, is exposed to ice storm events, existing buildings, infrastructure, and critical facilities are not likely to sustain significant damage from these events. However, the Village of Manchester planning team members identified the following critical facilities (Table O-20) 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 Section 11. The following critical facilities would be vulnerable to ice storm events in the Village of Manchester:

Table O-20. Critical Facilities at Risk

JURISDICTION	CRITICAL FACILITIES
Village of Manchester	2 Energy Utility Facility, 1 Fire Station, 1 Municipal Building, 2 Sewage and Water Facilities

The population over 65 in the Village of Manchester is estimated at 21 percent of the Village's total population and children under the age of 5 are estimated at 4 percent, or an estimated total of 385 potentially vulnerable residents in the Village of Manchester based on age. In addition, an estimated 9 percent of the Village of Manchester's population live below the poverty level (Table O-21).

Table O-21. Populations at Greater Risk

JURISDICTION	POPULATION 65 AND OLDER	POPULATION UNDER 5	POPULATION BELOW POVERTY LEVEL
Village of Manchester	318	67	133

Historic losses are reported on a county-wide basis. Please see Section 11 of this Plan for additional information on historical and annualized losses for the entire planning area.

ANNEX O: VILLAGE OF MANCHESTER

LANDSLIDE

HAZARD DESCRIPTION, LOCATION, EXTENT, & HISTORICAL OCCURRENCES

The Ontario County Hazard Mitigation Plan Update provides a hazard description, location and extent of the landslide hazard for all participating jurisdictions prone to landslides (Section 12). The entire planning area is primarily at low risk for potential landslides. However, the areas surrounding Honeoye Lake are at a slightly greater risk for landslides. According to the New York State Hazard Mitigation Plan, the entire population in the Village of Manchester is at a low risk of incidence and low risk for landslide susceptibility (0-1.5%). Since 1996, the entire Ontario County planning area has had two reported incidents and no known damages due to landslides.

PROBABILITY OF FUTURE EVENTS

Based on available records of historic events there are no known historic events of landslide in the Village of Manchester over the 27.5-year reporting period which provides a probability of one event every ten years or more. This frequency supports an “Unlikely” probability of future events for the Village of Manchester.

VULNERABILITY AND IMPACT

According to the New York State Hazard Mitigation Plan, the entire population in the Ontario County planning area is at a low risk of incidence. The only known area slightly susceptible to landslide within the planning area is along the banks of the Honeoye Lake. There have been no known impacts to structures or infrastructure in the area due to landslide and there are no critical facilities located in the areas considered at slightly 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.

LIGHTNING

HAZARD DESCRIPTION, LOCATION, & EXTENT

The Ontario County Hazard Mitigation Plan Update provides a hazard description, location and extent of the lightning hazard for each participating jurisdiction (Section 13). 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 Village of Manchester from January 1996 through August 2023. 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 Village of Manchester 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 Village of Manchester 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 Section 13.

Table O-22. Critical Facilities at Risk

JURISDICTION	CRITICAL FACILITIES
Village of Manchester	2 Energy Utility Facility, 1 Fire Station, 1 Municipal Building, 2 Sewage and Water Facilities

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. An estimated 9 percent of the Village of Manchester's population live below the poverty level (Table O-23).

Table O-23. Populations at Greatest Risk

JURISDICTION	POPULATION BELOW POVERTY LEVEL
Village of Manchester	133

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 Village of Manchester due to lightning are considered negligible.

Table O-24. Potential Annualized Losses

JURISDICTION	TOTAL PROPERTY & CROP LOSS	ANNUAL LOSS ESTIMATE
Village of Manchester	$0	$0

SNOW STORM

HAZARD DESCRIPTION, LOCATION, EXTENT, & HISTORICAL OCCURRENCES

The Ontario County Hazard Mitigation Plan Update provides a hazard description, location, and extent of the snow storm hazard for each participating jurisdiction (Section 14). 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, winter storm, and lake effect snow. Historical snow storm data for the County, including the Village of Manchester, are provided on a county-wide basis per the NCEI database. Therefore, all historical events are listed in Section 14 of the Plan Update.

PROBABILITY OF FUTURE EVENTS

According to historical records for the Ontario County planning area, the Village of Manchester can expect to experience a snow storm event approximately once every year. This frequency supports a "Highly Likely" probability of future events.

VULNERABILITY AND IMPACT

While the entirety of the Ontario County planning area, including the Village of Manchester, is exposed to snow storm events, existing buildings, infrastructure, and critical facilities are not likely to sustain significant damage from these events. However, the Village of Manchester planning team members identified the following critical facilities (Table O-25) 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 Section 14. The following critical facilities would be vulnerable to snow storm events in the Village of Manchester:

Table O-25. Critical Facilities at Risk

JURISDICTION	CRITICAL FACILITIES
Village of Manchester	2 Energy Utility Facility, 1 Fire Station, 1 Municipal Building, 2 Sewage and Water Facilities

The population over 65 in the Village of Manchester is estimated at 21 percent of the Village's total population and children under the age of 5 are estimated at 4 percent, or an estimated total of 385 potentially vulnerable residents in the Village of Manchester based on age. In addition, an estimated 9 percent of the Village of Manchester's population live below the poverty level (Table O-26).

Table O-26. Populations at Greater Risk

JURISDICTION	POPULATION 65 AND OLDER	POPULATION UNDER 5	POPULATION BELOW POVERTY LEVEL
Village of Manchester	318	67	133

Historic losses are reported on a county-wide basis. Please see Section 14 of this Plan for additional information on historical and annualized losses for the entire planning area.

TORNADO

HAZARD DESCRIPTION, LOCATION, & EXTENT

The Ontario County Hazard Mitigation Plan Update provides a hazard description, location and extent of the tornado hazard for each participating jurisdiction (Section 15). 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

According to the National Centers for Environmental Information (NCEI) Storm Events database, no tornado events are known to have impacted the Village of Manchester. Historical tornado events are often provided on a county-wide basis in the NCEI database, particularly when multiple smaller communities are impacted. Tornado events are not confined to specific geographic boundaries and risk is considered similar for all participating jurisdictions throughout the planning area.

PROBABILITY OF FUTURE EVENTS

Historical tornado events are often reported on a county-wide basis, particularly when multiple smaller jurisdictions are impacted. While some incidents may be reported at the local municipal level, county level events provide a more robust risk assessment for each participating jurisdiction due to their similar geographic locations. According to historical records for the Ontario County planning area, the Village of Manchester can expect to experience a tornado event once every five years. Hence, the probability of a future tornado event affecting the Village of Manchester is “Occasional”.

Table O-27. Critical Facilities at Risk

JURISDICTION	CRITICAL FACILITIES
Village of Manchester	2 Energy Utility Facility, 1 Fire Station, 1 Municipal Building, 2 Sewage and Water Facilities

According to the American Community Survey (ACS) five-year estimates for 2021, a total of 164 manufactured homes are located in the Village of Manchester (23 percent of total housing stock). In addition, 75 percent (approximately 525 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 tornado events.

Table O-28. Structures at Greater Risk

JURISDICTION	SFR STRUCTURES BUILT BEFORE 1980	MANUFACTURED HOMES
Village of Manchester	525	164

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. An estimated 9 percent of the Village of Manchester’s population live below the poverty level (Table O-29).

Table O-29. Populations at Greatest Risk

JURISDICTION	POPULATION BELOW POVERTY LEVEL
Village of Manchester	133

The total loss estimate due to tornado events is $0 (in 2023 dollars), having an approximate annual loss estimate of $0. Based on historic damages and best available data the impact of a wind event on the Village of Manchester 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 O-30. Estimated Average Annual Losses

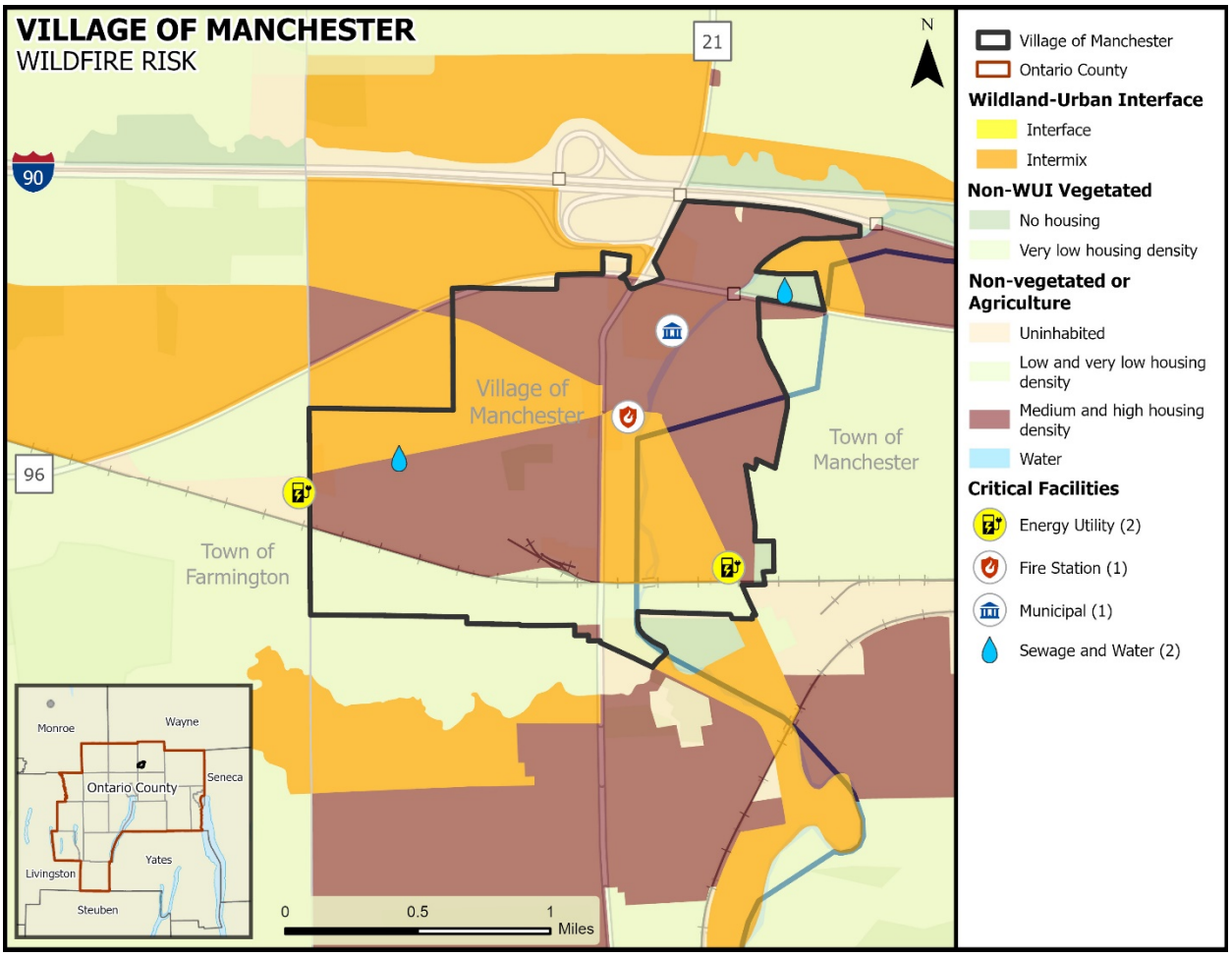
JURISDICTION	TOTAL PROPERTY & CROP LOSS	AVERAGE ANNUAL LOSS ESTIMATES
Village of Manchester	$0	$0

WILDFIRE

HAZARD DESCRIPTION, & LOCATION

The Ontario County Hazard Mitigation Plan Update provides a hazard description of the wildfire hazard for each participating jurisdiction (Section 16). 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 O-4). The Village of Manchester planning area is considered at low risk for wildfires with limited WUI areas.

Figure O-4. Village of Manchester Wildland Urban Interface Map[12]



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

[12] Map sources: ESRI OpenStreetMap (Custom: no labels), Census TIGER/LINE (2022), Ontario County Information Technology Department (2023), USGS ScienceBase Catalog (2022)

of Forest Protection issues color coded danger alerts. The entire planning area, including the Village of Manchester, had a “Low” FDRA Risk rating as of October 2023 (Section 16, Figure 16-2).

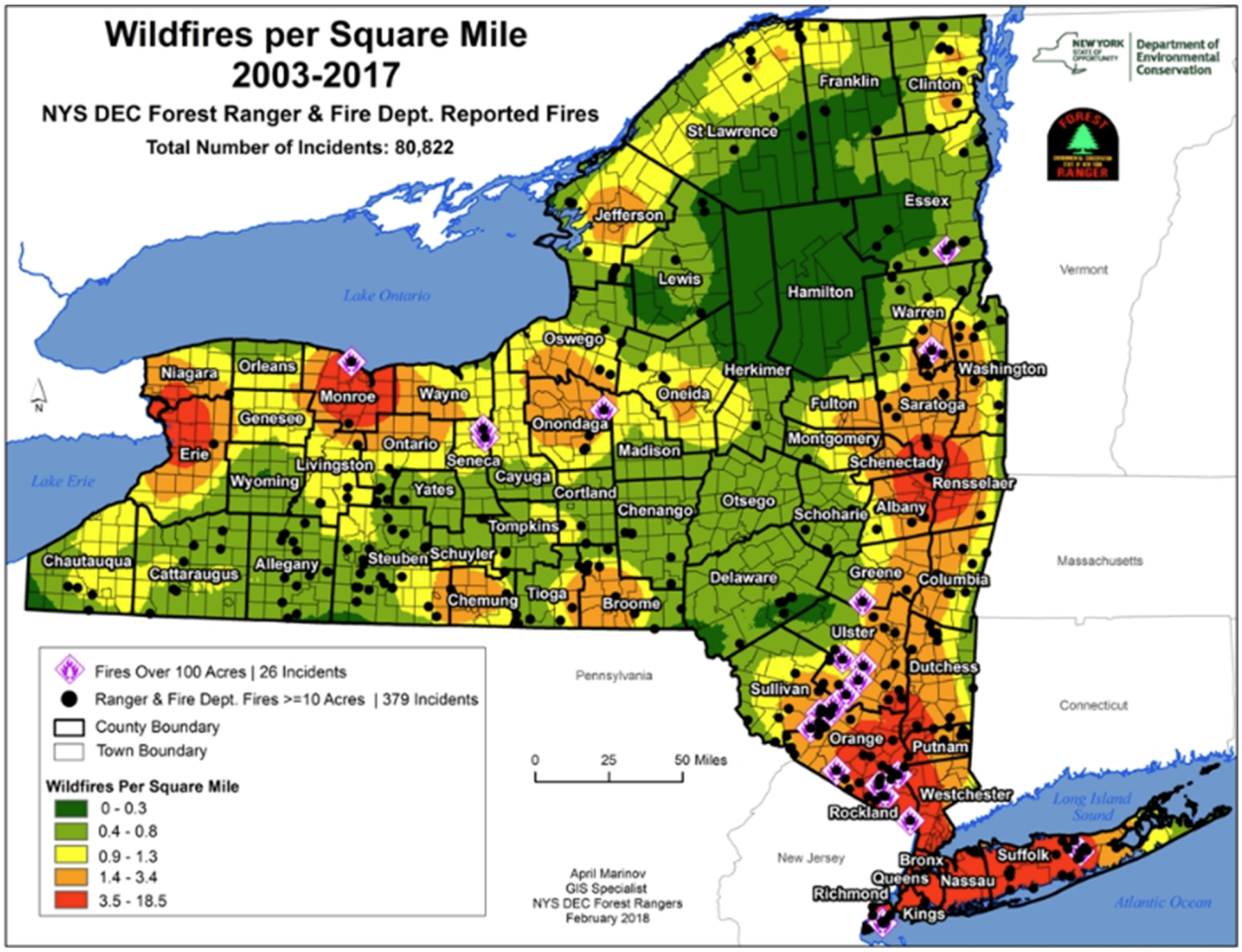
EXTENT

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 Ontario County Hazard Mitigation Plan Update provides KBDI levels and descriptions along with the range of historical KBDI levels for the planning area (Section 16).

The average extent to be mitigated for the planning area is a KBDI of 200-300. 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 O-5). Detailed data on historic wildfires in the planning area, including damages, acres burned, fatalities, or injuries, was not available. There were no wildfires greater than 100 acres in Ontario County during that same period, but the southern portions of the County have experienced incidents greater than 10 acres. The Village of Manchester planning area can anticipate limited future wildfire events, burning less than 10 acres.

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



HISTORICAL OCCURRENCES

Between 2003 and 2022 there were 1,553 wildfire events in Ontario County. These incidents are reported countywide. Most of the incidents (877) were brush or brush and grass mixture fires followed by natural vegetation (309), and grass fires (240). Based on data provided for historical wildfire events for the Ontario County planning area, 235 events have occurred since the 2018 Plan.

PROBABILITY OF FUTURE EVENTS

With 1,553 events in a 19-year period, a wildfire event within the Ontario County planning area, including participating jurisdictions, is “Highly Likely” meaning an event is probable within the next year.

VULNERABILITY AND IMPACT

The Village of Manchester 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 Section 16.

Table O-31. Critical Facilities at Risk

JURISDICTION	CRITICAL FACILITIES
Village of Manchester	2 Energy Utility Facility, 1 Fire Station, 1 Municipal Building, 2 Sewage and Water Facilities

For the Village of Manchester, 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.

WIND

HAZARD DESCRIPTION, LOCATION, & EXTENT

The Ontario County Hazard Mitigation Plan Update provides a hazard description, location, and extent of the wind hazard for each participating jurisdiction (Section 17). Wind events are not confined to specific geographic boundaries and are considered similar for all participating jurisdictions throughout the planning area.

HISTORICAL OCCURRENCES

Since 1956, 15 wind events are known to have occurred in the Village of Manchester. Based upon NCEI records 12 events resulted in property damages. Table O-32 presents information on known historical events impacting the Village of Manchester.

Table O-32. Historical Wind Events, 1968-2023[13]

JURISDICTION	DATE	MAGNITUDE (knots)	DEATHS	INJURIES	PROPERTY DAMAGE	CROP DAMAGE
Town and Village of Manchester	6/8/2007	50	0	0	$14,215	$0
	5/21/2013	50	0	0	$6,357	$0
	5/13/2014	50	0	0	$12,449	$0
	6/10/2015	52	0	0	$18,616	$0
	6/23/2015	50	0	0	$12,411	$0
	6/18/2017	50	0	0	$14,509	$0
	9/4/2017	50	0	0	$12,000	$0
	9/4/2017	50	0	0	$0	$0
	10/15/2017	50	0	0	$9,606	$0
	10/15/2017	50	0	0	$9,606	$0
	10/15/2017	52	0	0	$0	$0
	8/14/2018	52	0	0	$2,349	$0
	11/15/2020	55	0	0	$0	$0
	7/20/2023	51	0	0	$2,056	$0
	8/7/2023	51	0	0	$10,000	$0
TOTALS		**(MAX EXTENT)**	**0**	**0**	**$124,174**	**$0**

Based on the list of historical wind events for the Village of Manchester, three of the reported events have occurred since the 2018 Plan.

PROBABILITY OF FUTURE EVENTS

Historical wind events are often 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

[13] Historical events are reported from January 1956 through August 2023. Magnitude is listed when available. Damage values are in 2023 dollars.

Ontario County planning area, the Village of Manchester can expect to experience a wind event four to five times a year. This frequency supports a “Highly Likely” probability of future events.

VULNERABILITY AND IMPACT

The Village of Manchester 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 Section 17.

Table O-33. Critical Facilities at Risk

JURISDICTION	CRITICAL FACILITIES
Village of Manchester	2 Energy Utility Facility, 1 Fire Station, 1 Municipal Building, 2 Sewage and Water Facilities

According to the American Community Survey (ACS) five-year estimates for 2021, a total of 164 manufactured homes are located in the Village of Manchester (23 percent of total housing stock). In addition, 75 percent (approximately 525 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 wind events.

Table O-34. Structures at Greater Risk

JURISDICTION	SFR STRUCTURES BUILT BEFORE 1980	MANUFACTURED HOMES
Village of Manchester	525	164

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. An estimated 9 percent of the Village of Manchester’s population live below the poverty level (Table O-35).

Table O-35 Populations at Greatest Risk

JURISDICTION	POPULATION BELOW POVERTY LEVEL
Village of Manchester	133

Impact of wind events experienced in the Village of Manchester 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 67.5-year reporting period there has been a total of $124,174 damages (in 2023 dollars) in the Village of Manchester due to wind events. The estimated average annual loss from a wind event is $1,840.

Table O-36. Estimated Annualized Losses

JURISDICTION	TOTAL PROPERTY & CROP LOSS	ANNUAL LOSS ESTIMATES
Town and Village of Manchester	$124,174	$1,840

ANNEX O: VILLAGE OF MANCHESTER

CLIMATE CHANGE CONSIDERATIONS

The Ontario 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 Ontario County unless otherwise stated. Please see Sections 5 through 17 of this Plan Update for additional information on climate change considerations by hazard.

HUMAN-CAUSED HAZARDS

The Ontario County Hazard Mitigation Plan Update provides a detailed hazard profile for human-caused hazards including fire, hazardous materials, infestation, terrorism, utility failure, and water supply contamination. Information for these hazards 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 Ontario County planning area. Please see Sections 18 through 23 of this Plan Update for additional information on human-caused hazards evaluated for this plan.

PREVIOUS MITIGATION ACTIONS

Previous Action Worksheet VM-1: Critical Facility Flood Protection	
Name of Jurisdiction: **Name of Haz. Mit. Plan:**	Village of Manchester Ontario County Multi-Jurisdictional Hazard Mitigation Plan – 2015
Risk / Vulnerability	
Problem being Mitigated:	Flood risk to some critical facilities - Village of Manchester Highway Garage - In Flood Zone; Village of Manchester Police Dept. & Fire Hall - In Flood Zone; Sewage Treatment Plant Structure - Potential Flood Risk - on the edge of flood zone; flood issues during heavy rains in specified areas of the village, particularly Clifton Street, North Avenue, Merrick Avenue, and Westplex Drive. trees have been damaged
Potential Actions/Projects (not being Implemented at this time)	
Actions/Projects Considered with Summary Evaluation of Each:	Develop plan for protecting existing Village facilities located in a 500yr flood zone.
Action or Project Intended for Implementation	
Action/Project Number: **Name of Action or Project:**	VM-1: Flood Risk Management
Action or Project Description:	Develop plan for mitigating flood hazard to Village facilities located in a 500yr flood zone. Consider site amendments or new/shared facilities in a different location.
Summary of Evaluation Benefits (losses avoided): **Estimated Cost:** **Other Factors Considered:**	Saving facilities and equipment from potential loss. Phase 1 Study - $75,000 Phase 2 Implementation – TBD
Plan for Implementation	
Responsible Organization:	Village Board
Action/Project Priority:	Medium
Timeline for Completion:	2020
Potential Fund Sources:	FEMA, Local Budget Process
Local Planning Mechanisms to be Used in Implementation, if any:	Not Applicable
2024 ANALYSIS	
Date of Status Report: **Report of Progress:** **Evaluation of Effectiveness:**	Defer to Plan Update. On-going project. Update program mitigated section to include “State Street” and remove “Village of Manchester Police Department”. Update Phase II implementation to be on-going at this time.

Previous Action Worksheet VM-2: Storm Water and Erosion Control Infrastructure	
Name of Jurisdiction: **Name of Haz. Mit. Plan:**	Village of Manchester Ontario County Multi-Jurisdictional Hazard Mitigation Plan – 2015
Risk / Vulnerability	
Problem being Mitigated:	Concerns with storm water runoff from roads concerns and sediment/erosion control - stream corridor restoration/streambank stabilization periodically; tree maintenance and inspection; need to prevent automotive run-off from entering the water system (regulate? curbing? drainage?)
Potential Actions/Projects (not being Implemented at this time)	
Actions/Projects Considered with Summary Evaluation of Each:	Inventory existing storm water infrastructure and develop a plan for installing/upgrading appropriate infrastructure to minimize erosion and uncontrolled runoff
Action or Project Intended for Implementation	
Action/Project Number: **Name of Action or Project:**	VM-2
Action or Project Description:	VM-2: Storm Water and Erosion Control Infrastructure - Inventory and analysis and plan for implementation
Summary of Evaluation Benefits (losses avoided): **Estimated Cost:** **Other Factors Considered:**	Prevent losses from spot location flooding. Phase 1: Initial Study $75,000 Phase 2: Implementation TBD
Plan for Implementation	
Responsible Organization:	Village Board
Action/Project Priority:	Medium
Timeline for Completion:	2021
Potential Fund Sources:	FEMA, Town Budget
Local Planning Mechanisms to be Used in Implementation, if any:	Not Applicable
2024 ANALYSIS	
Date of Status Report: **Report of Progress:** **Evaluation of Effectiveness:**	Defer to Plan Update. On-going project. Update Phase II implementation and timeline for completion to reflect continuous.

Previous Action Worksheet VM-3: Generator Inventory and Upgrade	
Name of Jurisdiction: **Name of Haz. Mit. Plan:**	Village of Manchester Ontario County Multi-Jurisdictional Hazard Mitigation Plan – 2015
Risk / Vulnerability	
Problem being Mitigated:	Utility failure - update inventory of generators, determine where additional are needed (Sewage Treatment Plant, etc.); utility lines could be buried, or future lines could be buried
Potential Actions/Projects (not being Implemented at this time)	
Actions/Projects Considered with Summary Evaluation of Each:	Generator Inventory – purchase additional generators and modify/upgrade support facilities to protect from weather and flooding
Action or Project Intended for Implementation	
Action/Project Number: **Name of Action or Project:**	VM-3
Action or Project Description:	Generator Inventory and Upgrade
Summary of Evaluation Benefits (losses avoided): **Estimated Cost:** **Other Factors Considered:**	Reliable backup power will avoid significant losses that would occur in the event of failure of public sewer and other essential services. Generators are about $50,000/location
Plan for Implementation	
Responsible Organization:	Village Board
Action/Project Priority:	High
Timeline for Completion:	2019
Potential Fund Sources:	Village Budget Reserve Fund
Local Planning Mechanisms to be Used in Implementation, if any:	Risk Management
2024 ANALYSIS	
Date of Status Report: **Report of Progress:** **Evaluation of Effectiveness:**	Completed and Defer to Plan Update. The Village has installed generators but will continue to assess critical facilities for installation and need.

Previous Action Worksheet VM-4: Fire Protection – Pratt Road Water Main	
Name of Jurisdiction: **Name of Haz. Mit. Plan:**	Village of Manchester Ontario County Multi-Jurisdictional Hazard Mitigation Plan – 2015
Risk / Vulnerability	
Problem being Mitigated:	Fire safety concern - upsize water mains and hydrants to improve fire protection.
Potential Actions/Projects (not being Implemented at this time)	
Actions/Projects Considered with Summary Evaluation of Each:	Increase water main on Pratt Rd from 4” to 6”. Establish pit and connections to Village of Shortsville water lines. Establish hydrant inspections and replacement.
Action or Project Intended for Implementation	
Action/Project Number: **Name of Action or Project:**	VM-4: Fire Safety – Increasing Size of Water Mains
Action or Project Description:	Increase size of water main on Pratt Rd, replace old water lines with new, replace old hydrants with new.
Summary of Evaluation Benefits (losses avoided): **Estimated Cost:** **Other Factors Considered:**	Larger, upgraded water supply infrastructure will reduce losses from fires. $500,000
Plan for Implementation	
Responsible Organization:	Village of Manchester DPW
Action/Project Priority:	Medium
Timeline for Completion:	2023
Potential Fund Sources:	Grants, Village Reserve Fund
Local Planning Mechanisms to be Used in Implementation, if any:	Set up a water transmission grid by streets to target section of replacement each year.
2024 ANALYSIS	
Date of Status Report: **Report of Progress:** **Evaluation of Effectiveness:**	Defer to Plan Update. Update action/projects considered to remove and action or project description to remove “increase water main on Pratt Rd from 4” to 6”. Update to remove Village of Shortsville from action as it pertains specifically to Village of Manchester.

NEW MITIGATION ACTIONS

VILLAGE OF MANCHESTER PROPOSED PROJECTS													
*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
1	1.4	Extreme Cold, Extreme Heat, Flood, Hail, Ice Storm, Lightning, Snow Storm Tornado, Wildfire, Wind, and Utility Failure	Generator at Town Hall and DPW Building: During power outages, the Town Hall and Public Works facility would be without lights, communications, and maintenance equipment/machinery. The operations are basically brought to a halt. This project Helps ensure critical facilities continue to provide services during a power outage caused by unforeseen events.	Acquire and install a permanent generator at both critical facilities: Town Hall and DPW building located at 1272 Co. Rd. 7.	Yes	Further review required	24 months	Village Board and Public Works	$1,000,000	Provide power for critical facilities during power outages and ensure continuity of critical services.	Local Department Budget; HMGP, BRIC, CDBG, PA 406 (when applicable) local bonds	H	Energy (Power/Fuel)
2	2.3	Flood, Hail, Ice Storm, Lightning, Snow Storm Tornado, Wildfire, Wind, and Utility Failure	Tree Trimming Program: Tree maintenance is a priority and a plan to address continued maintenance to reduce risk of further damage will need to be developed and implemented. This project protects infrastructure, reduces cost of reparation, and prevents injury to residents.	Adopt and implement a routine tree trimming program that clears tree limbs near power lines and/or hanging in right-of-way; Remove dead trees from right-of way and drainage systems on a scheduled basis.	No	Further review required	12 months	Village Board and Public Works	Staff Time	Reduce damages to infrastructure; Ensure continuity of services during and after event; Reduce damages associated with power outages; Reduce risk of injuries or fatalities to vulnerable populations.	Local Department Budget, Staff time	M	Safety/Security
3	3.3	Flood, Hail, Ice Storms, Landslide, Lightning, Snow Storms,	Review and update building codes: Current standards do not full account for hazard mitigation and building codes should be reviewed and updated. This project protects infrastructure, reduces cost of	Incorporate higher standards for hazard resistance in local application of the building code.	No	N/A	12 months	Village Board	Staff Time	Reduce risk of damages to structures through improved construction techniques; Reduce recovery efforts for the community after	Local Department Budget, Staff time	M	Communication

VILLAGE OF MANCHESTER PROPOSED PROJECTS													
*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
		Tornado, Wildfire, Wind	reparation, and prevents injury to residents.							an event.			
4	1.2	Flood, Snow, Storm, Tornado, Wildfire, Wind	Emergency Notification System: The general public may not have the means to access educational material or notification alerts. By considering an area wide notification system ensures community members are aware of risk. This action promotes public safety.	Look to coordinate with County to activate locally an area-wide telephone Emergency Notification System ("Reverse 911").	No	N/A	24-36 months	Village Board and Public Works	$1,000,000	Reduce risk to residents through improved communication and early warning.	Local Department Budget; HMGP, BRIC, CDBG, PA 406 (when applicable) local bonds	H	Communication
5	6.1	Drought, Extreme Heat, Flood, Wildfire	Smart Growth Initiatives: Consider in an effort to make the Village more resilient and help reduce the impacts of climate change Village is experiencing. This project protects the community and reduces risk of flooding.	Adopt smart growth initiatives. Incorporate a formal hazard mitigation plan in long-term community development planning activities.	No	N/A	12 months	Village Board	Staff Time	Reduce risk in high hazard areas by promoting and incentivizing development in low-risk areas; Build resiliency within the community; Reduce risk of damages through improved planning and construction practices.	Local Department Budget, Staff time	M	Communication
6	4.2	Flood, Water Supply Contamination	Sewer man-hole covers: Assessment of village sewer manholes to prevent water contamination which has been experienced in the past to due stormwater and flooding. This project protects infrastructure, reduces cost of reparation, and prevents injury to residents.	Equip sewer manholes with watertight covers and inflow guards.	No	Further review required	24 months	Village Board and Public Works	$100,000	Reduce risk of flood water contamination; Reduce risk of surface water infiltration and sewage backup; Ensure continuity of critical services.	Local Department Budget; HMGP, BRIC, CDBG, PA 406 (when applicable) local bonds	L	Safety/Security, Food/Water/ Shelter

ANNEX O: VILLAGE OF MANCHESTER

VILLAGE OF MANCHESTER PROPOSED PROJECTS													
*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
7	6.1	Drought, Flood	Green Infrastructure Program: Explore alternative ways to promote mitigation and preserve the land within the Village due to the impact of climate change. This project protects infrastructure, reduces cost of reparation, and prevents injury to residents.	Establish, adopt and implement a "green infrastructure" program for parks, nature preserves, greenbelts, etc.	No	N/A	36-60 months	Village Board	Staff Time	Reduce impacts of flood through expanded greenspace and restoration of floodplains and wetlands; Reduce impacts of drought through green infrastructure that works to replenish groundwater reserves; Reduce impacts of Urban Island Heat effect in densely populated areas through tree planting.	Local Department Budget, Staff time	L	Safety/Security
8	2.3	Flood	Debris Clearing Program: Extreme rainfall and snowmelt events result in high stormwater flow rates, which can result in significant amounts of debris (including sediment, rubble, and woody debris) being mobilized and directed to downstream portions of drainage courses. The build-up of debris can compromise the performance of bridges and culverts, jeopardizing these installations (as well as the associated roadways). This project protects the community and reduces risk of flooding.	Adopt and implement a program for clearing debris from bridges, drains and culverts.	No	Further review required	24 months	Village Board and Public Works	$50,000 (annually)	Reduce damages caused by flooding by maintaining or restoring drainage capacity.	Local Department Budget; HMGP, BRIC, CDBG, PA 406 (when applicable) local bonds	M	Safety/Security

ANNEX O: VILLAGE OF MANCHESTER

VILLAGE OF MANCHESTER PROPOSED PROJECTS													
*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
9	4.2	Flood	Flood Risk Study: Evaluation of high-risk areas within village to identify flood mitigation needs to reduce risk. Floodwaters can cause debris to back up at the bridge, exacerbating flooding, damaging the bridge, and causing scour and erosion to embankments at the bridge site. This project protects infrastructure, reduces cost of reparation, and prevents injury to residents.	Undertake a comprehensive study of flood risk and reduction alternatives. Implement feasible alternatives for flood reduction.	No	Further review required	24 - 36 months	Village Board	$500,000	Improve risk assessment; Reduce risk of damages or injuries through drainage improvements; Reduce risk of damages and injuries.	Local Department Budget; HMGP, BRIC, CDBG, PA 406 (when applicable) local bonds	M	Communication, Safety/Security
10	4.3	Flood	Wetland Development Restrictions: Reviewing and updating local codes and ordinances to better protect and maintain water resources. This project protects infrastructure, reduces cost of reparation, and prevents injury to residents.	Adopt wetlands development regulations; Implement a Comprehensive Watershed Ordinance for new development.	No	Further review required	12- 24 months	Village Board	Staff Time	Preserve/restore the natural function of the floodplain; Reduce flood damages and risk of injuries or fatalities through comprehensive development standards.	Local Department Budget	M	Communication
11	3.2	Flood	Education for installing backflow flows: Education programs can provide life safety benefits to residents in the area and provide information on mitigation measures residents can employ to reduce damages to their property. This project protects infrastructure, reduces cost of reparation, and prevents injury to residents.	Provide how-to information to residents for installing backflow valves to prevent reverse-flow floods.	No	Further review required	12- 24 months	Village Board	Staff Time	Reduce damage impact on residents after a flood event; Reduce risk of sewage back-up in structures; Reduce risk of injury or illness to residents.	Local Department Budget	M	Communication

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12	5.4	Flood	Drainage System Improvements: Inadequate drainage systems cause flooding, damages to roadways, and create hazardous driving conditions for motorists. This project protects infrastructure, reduces cost of reparation, and prevents injury to residents.	Increase drainage capacity; add stormwater detention and/or retention basins as deemed necessary to reduce flood risk.	No	Further review required	24 – 48 months	Village Board	$1,000,000	Reduce flood risk through improved drainage capacity; Reduce risk of damages and injuries; Reduce emergency response demands.	Local Department Budget; HMGP, BRIC, CDBG, PA 406 (when applicable) local bonds	M	Safety/Security
13	6.1	Flood	Vegetation Maintenance: Loose vegetation mix with drainage water and cause damming and plugged culverts. When this occurs, flood water escapes the existing drainage network, causing significant damage to public and private property. Recovery efforts are time consuming and labor intensive. This project protects the community and reduces the risk of flooding.	Retain and maintain natural vegetation in stormwater channels.	No	Further review required	12- 24 months	Village Board	Staff Time	Reduce risk of flood damages due to erosion or scour during flood events.	Local Department Budget	H	Safety/Security
14	4.3	Flood	New Development Regulations: Reviewing and updating local codes and ordinances will guide decisions that will protect and maintain water resources. This project protects infrastructure, reduces cost of reparation, and prevents injury to residents.	Adopt regulations to limit amount of impervious cover in conjunction with new development.	No	N/A	12- 24 months	Village Board	Staff Time	Reduce flood damages and risk of injuries or fatalities through regulated development; Reduce the amount of stormwater runoff in densely developed areas during flood events; Reduce the risk of downstream flooding.	Local Department Budget	M	Communication

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15	2.3	Wildfire, Fire	Fire Hydrant Maintenance Program: In the event of a wildfire or fire event the Village would need to ensure fire hydrants are working appropriately to enhance emergency response efforts.	Adopt and implement routine fire hydrant maintenance program.	No	Further review required	12- 24 months	Village Board, Local Fire Department	Staff Time	Reduce risk and spread of wildfires through routine maintenance of fire hydrants; Reduce risk of injury or damages.	Local Department Budget, Local Fire Department Budget	M	Safety/Security
16	4.2	Drought	Drought Mitigation at critical public facilities: Assessment of critical facilities to identify those that would benefit from drought mitigation measures to protect any further damage.	Upgrade critical facilities to include drought mitigation measures and expansive soils protection such as greywater reuse systems, drought tolerant landscaping, installation of a sprinkler system with regular watering schedule and installation of French drains where high plasticity soils are indicated.	No	Further review required	48-60 months	Village Board and Public Works	$100,000	Reduce damages at critical facilities.	Local Department Budget; HMGP, BRIC, CDBG, PA 406 (when applicable) local bonds	L	Safety/Security
17	2.3	Tornado	Construction of safe rooms: The Village has no designated safe rooms within the community for at-risk residents in the event of a high-wind or tornado event.	Build safe room shelters throughout jurisdiction to include community centers and/or manufactured home parks so that all park residents can reach shelter in less than five minutes.	No	Further review required	48-60 months	Village Board and Public Works	$500,000	Reduce risk to citizens by providing shelter in high-risk areas during extreme weather events.	Local Department Budget; HMGP, BRIC, CDBG, PA 406 (when applicable) local bonds	L	Safety/Security, Food/Water/ Shelter
18	4.2	Extreme Cold, Extreme Heat, Flood, Hail, Ice	Community Shelter / EOC: The Village has no designated shelter for residents to evacuate. Considering potential site locations or construction a community	Find solutions with assistance from Ontario County to upgrade a facility and/or construct a community shelter for extreme hazard events.	Yes	Further review required	12-60 months	Village Board, in conjunction with Ontario County, School Districts, Local Churches	$500,000 - $1,000,000	Reduce risk to residents by providing shelter during extreme weather events.	Local Department Budget; HMGP, BRIC, CDBG, PA	H	Safety/Security, Food/Water/ Shelter

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		Storm, Lightning, Snow Storm, Tornado, Wildfire, Wind	shelter will be needed to help reduce injuries or fatalities to at risk and vulnerable residents. This project promotes public safety.	Ensure generator is installed at site location once determined.							406 (when applicable) local bonds		
19	3.1	Extreme Heat, Drought	Public Awareness Program: The general public may not have a full understanding of the risk associated with hazards impacting the planning area. Education programs can provide life safety benefits to residents in the area and provide information on mitigation measures residents can employ to reduce damages to their property.	Prepare tips for avoiding impacts of extreme heat and drought to be disseminated via press release, social media to educate citizens of hazards that can threaten the area and mitigation measures to reduce injuries, fatalities, and property damages. This can include heat advisory warning alerts, water conservation techniques, etc.	No	N/A	12 months	Village Board, Ontario County Emergency Management	Staff Time	Promote hazard awareness and protect residents from potential injuries and damages.	Local Department Budget, Staff time	M	Communication
20	3.1	Extreme Cold, Ice Storm, Snow Storm	Public Awareness Program: The general public may not have a full understanding of the risk associated with hazards impacting the planning area. Education programs can provide life safety benefits to residents in the area and provide information on mitigation measures residents can employ to reduce damages to their property.	Prepare tips for avoiding impacts of extreme cold, ice storms and snow storms to be disseminated via press release, social media to educate citizens of hazards that can threaten the area and mitigation measures to reduce injuries, fatalities, and property damages. This can include identifying	No	N/A	12 months	Village Board, Ontario County Emergency Management	Staff Time	Reduce risk to citizens by educating the public on how to prepare for hazards and disasters.	Local Department Budget, Staff time	M	Communication

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				warming stations, install warning signs at hazardous bridges and roadways subject to ice, mitigation measures to prevent frozen pipes ways, etc.									
21	3.1	Hail, Tornado, Wind	Public Awareness Program: The general public may not have a full understanding of the risk associated with hazards impacting the planning area. Education programs can provide life safety benefits to residents in the area and provide information on mitigation measures residents can employ to reduce damages to their property.	Prepare tips for avoiding impacts of hail, tornado, and wind to be disseminated via press release, social media to educate citizens of hazards that can threaten the area and mitigation measures to reduce injuries, fatalities, and property damages. This can include harden/retrofitting structures, tree removal/branch maintenance, covered parking, etc.	No	N/A	12 months	Village Board, Ontario County Emergency Management	Staff Time	Reduce risk to citizens by educating the public on how to prepare for hazards and disasters.	Local Department Budget, Staff time	M	Communication
22	3.1	Lightning	Public Awareness Program: The general public may not have a full understanding of the risk associated with hazards impacting the planning area. Education programs can provide life safety benefits to residents in the area and provide information on mitigation measures residents can employ to reduce damages to their property.	Prepare tips for avoiding impacts of lightning to be disseminated via press release, social media to educate citizens of hazards that can threaten the area and mitigation measures to reduce injuries, fatalities, and property damages. This can include installation of surge protectors, tree removal/branch maintenance, etc.	No	N/A	12 months	Village Board, Ontario County Emergency Management	Staff Time	Reduce risk to citizens by educating the public on how to prepare for hazards and disasters.	Local Department Budget, Staff time	M	Communication

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23	3.1	Wildfire	Public Awareness Program: The general public may not have a full understanding of the risk associated with hazards impacting the planning area. Education programs can provide life safety benefits to residents in the area and provide information on mitigation measures residents can employ to reduce damages to their property.	Prepare tips for avoiding impacts of wildfire to be disseminated via press release, social media to educate citizens of hazards that can threaten the area and mitigation measures to reduce injuries, fatalities, and property damages. This can include identification of high-risk areas, creating defensive space, brush/debris maintenance, etc.	No	N/A	12 months	Village Board, Ontario County Emergency Management	Staff Time	Reduce risk to citizens by educating the public on how to prepare for hazards and disasters.	Local Department Budget, Staff time	M	Communication
24	3.1	Landslide	Public Awareness Program: The general public may not have a full understanding of the risk associated with hazards impacting the planning area. Education programs can provide life safety benefits to residents in the area and provide information on mitigation measures residents can employ to reduce damages to their property.	Educate property owners, elected officials, and planning and zoning decision-makers about landslide risks and best management and development practices to minimize risk/damage, which can include: avoid building near steep slopes, close to cliffs, near drainage ways, or stream channels, planting ground cover on slopes; build channels or deflection walls to direct the flow around buildings, installation of flexible pipe fittings to avoid gas or water leaks, and/or use of sandbags, retaining walls or k-rails (Jersey barriers).	No	N/A	36 months	Village Board in conjunction with Ontario County Planning and Soil and Water Conservation district	Staff Time	Reduce risk to citizens by educating the public on how to prepare for hazards and disasters.	Local Department Budget, Staff time	L	Communication

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25	3.1	Infestation	Public Awareness Program: Ontario County is at risk of being infested with invasive species which could cause great economic hardship to the community and storm water management.	Secure funding for education and best management practices to reduce damage from invasive species on county-wide own properties and private own properties.	No	N/A	36 months	Village Board , Ontario County Soil and Water Conservation District and Cooperative Extension	Staff Time	Reduce risk to citizens by educating the public on how to prepare for hazards and disasters.	Local Department Budget, Staff time	L	Communication
26	3.3	Drought, Flood, Landslide, Snow Storm Tornado, Wildfire, Wind	Code Enforcement: There is a code enforcement officer shortage throughout the county. and those smaller jurisdictions may need to evaluate and update coding to follow the County (who will potentially take lead if position is vacant)	If applicable, need to evaluate and update coding to follow the County.	No	N/A	As needed	Village Board	Staff Time	Ensures compliance to current code and restrictions. Reduce damages to structures and infrastructure; Reduce risk of injuries or fatalities.	Local Department Budget	L	Communication
27	3.1	Fire, HazMat	Public Awareness Program: The general public may not be aware of the risk fire and hazardous material releases as it related to the County.	Work with local fire departments and volunteer fire departments on ways to protect residents and the community from the effects of structural fires and hazardous material releases. This can include monitoring home fire alarms/carbon monoxide alerts, fire extinguishers in home, proper safety tips, etc.	No	N/A	36-60 months	Village Board, in conjunction with Local Fire Departments	Staff Time	Reduce risk to citizens by educating the public on how to prepare for hazards and disasters.	Local Budget	L	Communication

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28	3.1	Terrorism	Public Awareness Program: The general public may not be aware of the risk of potential domestic terrorism that could impact the County.	Work with county and local departments to better protect critical infrastructure from potential domestic or foreign terrorism. Educate the public on what to do if they have concerns on a potential threat.	No	N/A	36-60 months	Village Board, in conjunction with Local Police Department	Staff Time	Reduce risk to citizens by educating the public on how to prepare for hazards and disasters.	Local Budget	L	Communication
29	3.1	Utility Failure	Public Awareness Program: The effects of utility failure no related to hazard events has caused power outages and inability for critical services to remain operational, effecting operations	Work with local utility providers to educate the public on ways to enhance utility operations through sending out notification to service customer by mail or paperless enrollment.	No	N/A	36-60 months	Village Board, in conjunction with local utility providers	Staff Time	Reduce risk to citizens by educating the public on how to prepare for hazards and disasters.	Local Budget	L	Communication
30	3.1	Water Supply Contamination	Public Awareness Program: The effects of water contamination has been experienced throughout the County.	Work with local water districts on educating the public of what they can do to prevent water contamination and/or damage to water infrastructure, such as clearing out drains, better protection of critical infrastructure throughout the community, etc.	No	N/A	36-60 months	Village Board, in conjunction with water districts	Staff Time	Reduce risk to citizens by educating the public on how to prepare for hazards and disasters.	Local Budget	L	Communication

CAPABILITY ASSESSMENT

COMMUNITY CAPABILITY CHECKLIST	Village of Manchester
PLANS	
Capital Improvements Plan	X
Climate Change Adaptation Plan	
Comprehensive/Master/Land Use Plan	X
Community Wildfire Protection Plan	
Continuity of Operations	
Drought Contingency Plan	X
Economic Development Plan	X
Emergency Management Action Plan	X
Emergency Operations Plan	
Emergency Response Plan and Pandemic Plan Annex	
Extreme Heat Plan/Protocol	
Evacuation Plan	
Floodplain Management Plan	X
Hazard Mitigation Plan	X
Local Waterfront Revitalization Plan	
Natural Resource Conservation Plan	X
Open Space Plan	
Stormwater Management Plan	
Transportation Plan	X
Watershed Protection Plan	
POLICIES/ORDINANCES	
Building Codes	X
Construction Site Stormwater Runoff Control	
Post-Construction Stormwater Management in New Development and Redevelopment	
Critical Infrastructure Protection	

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COMMUNITY CAPABILITY CHECKLIST	Village of Manchester
Fire Codes	X
Floodplain Ordinance	X
Illicit Discharge Detection and Elimination	X
Local Environmental Review	X
Local Wetland Regulations	
Public Maintenance of Streets, Bridges, other	X
Regulation of Invasive Species	
Regulation for Prevention of Water Contamination	X
Regulation for Unsafe/Defective Structures	X
Sediment and Erosion Control Measures	X
Site Plan Review Requirements	X
Steep Slope Ordinance	
Stream Buffer Ordinance	
Stormwater/ Drainage Ordinance	X
Subdivision Regulations	X
Timber Harvesting Regulations	
Tree Protection or Landscaping Ordinance	X
Use of Pollutants: Road Salt Use, Fertilizers, Pesticides, etc.	
Wildfire Ordinance	
Winter Road Maintenance	X
Zoning Ordinance/Land Use Restrictions	X
Additional Hazard-Related Regulations or Plans	X
PROGRAMS	
Firewise Communities	X
Floodplain Maps/Flood Insurance Studies	X
Hydrologic/ Hydraulic Studies	
Mutual Aid Agreement	X

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COMMUNITY CAPABILITY CHECKLIST	Village of Manchester
National Flood Insurance Program Participant	X
NFIP Community Rating System Participant	
Property Acquisition Program	
Public Education/ Awareness Programs	
Stream Maintenance Program	
Storm Drainage Systems Maintenance Program	X
StormReady Communities	
Warning Systems/ Services	
STAFF / DEPARTMENTS	
Building Code Official	X
Emergency Manager	
Engineer/Public Works Official	X
Environmental Conservation Specialist	
Floodplain Administrator	X
GIS Specialist	
Personnel with Hazard Knowledge	X
Planners	
Public Information Official	
Resource Development/ Grant Writer	