

Table 32. Nicollet County Master Mitigation Action Chart (2019-2023)

#	Hazard	Mitigation Strategy	Mitigation Action	Status	Priority Ranking	Time-frame	Jurisdictions	Responsibility	County Comments on Planning Mechanisms for Implementation	Possible Funding
1	All-Hazards	Mitigation Preparedness & Response Support	Continue to ensure that all Nicollet County residents are aware of and sign-up for the county's Everbridge Emergency Notification System.	Ongoing	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Emergency Management & City Emergency Managers	This is an ongoing effort of Nicollet County Emergency Management. A link for Everbridge community sign up is provided on the county website homepage. Local newspaper and radio stations are also able to assist with sharing information. In addition to Everbridge, the county has IPAWS capabilities for targeted and county-wide emergency notifications.	County, municipal funding
2	All-Hazards	Education & Awareness Programs	Continue to promote education & awareness on hazard awareness and emergency preparedness for schools, individuals, families, and businesses.	Ongoing	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Emergency Management & City Emergency Managers	This is an ongoing effort of Nicollet County Emergency Management. Information is distributed to the public via the county website, local newspaper & radio stations. Additional information is provided during the NWS severe weather awareness weeks in spring and winter. Local jurisdictions are encouraged to share information through their own existing channels (i.e., websites, Facebook).	County, municipal funding
3	All-Hazards	Local Planning & Regulations / Mitigation Preparedness & Response Support	Continue to update the Nicollet County and city-level Emergency Operation Plans to ensure that they adequately detail the needed steps to respond to all-hazards.	Ongoing	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Emergency Management & City Emergency Managers	The Nicollet County EOP is updated on an annual basis to address new HSEM MNWALK requirements. Local jurisdictions are also encouraged to develop and maintain local level EOP's.	County, municipal funding

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4	All-Hazards	Local Planning & Regulations	Update County/City Comprehensive Plans and Zoning Ordinances to include mitigation considerations that help to reduce risk from natural hazards. Utilize data of past hazard events and future climate projections to help inform updates.	New	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Property Services, NC Public Works, and City Admin/Planning Departments	Nicollet County has a Comprehensive Plan (1985) that provides guidance for future physical growth of the unincorporated areas of the county and appropriate land uses. The update of the plan will occur in 2018. Information included within the plan update may support an amendment to the zoning ordinance to address greater hazard mitigation, i.e., flooding, bluff erosion. Local cities are encouraged to update their Comp Plans to reflect risk reduction measures and priority mitigation projects identified in the Nicollet County MHMP planning process.	County, municipal funding
5	Severe Winter & Summer Storms	Local Planning & Regulations	Regularly inspect and trim trees near power lines to reduce power outages due to falling tree limbs during storms.	Ongoing	Moderate	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	City Public Works depts. & local Utility Companies	Tree management in the right-of-way of roads is addressed by the respective utility companies in their service area as well as City Public Works for trees within the city right of way.	County, municipal funding

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6	Severe Winter & Summer Storms	Education & Awareness Programs	Continue to promote / participate in the National Weather Service's annual Winter Weather Awareness Week in the fall and Severe Weather Awareness Week in the spring to improve local residents' understanding of storm hazards and personal readiness measures.	Ongoing	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Emergency Management & City Emergency Managers	This is an ongoing effort of Nicollet County Emergency Management. Public outreach is conducted to educate residents on the dangers of severe winter and summer storms and highlights the importance of preparing for severe weather before it strikes. Local cities are encouraged to participate and share this information through their own local channels such as Facebook and city websites.	County, municipal funding
7	Severe Winter & Summer Storms	Mitigation Preparedness & Response Support	Identify critical facilities or infrastructure that do not have backup power in the event of a major power outage resulting from severe winter or summer storms. <i>(Critical facilities may include police/fire departments, EOC, health care facilities, water & sewer treatment facilities, and other facilities deemed as critical, i.e. public schools and sheltering facilities).</i>	New	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Emergency Management & City Emergency Managers	The Nicollet County Sheriff's Office and Government Center do have generator backup power; however, other county & city government buildings and schools do not have backup power generators to ensure energy in the event of a severe power outage. Nicollet County and all cities will work to identify their respective critical facilities that should have backup power.	County, municipal funding

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8	Severe Winter & Summer Storms	Mitigation Preparedness & Response Support	Purchase and install generator hook-ups and encourage local generator purchases for identified critical facilities that require backup power.	New	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Emergency Management & City Emergency Managers	Nicollet County, local city governments, and schools will evaluate feasibility to purchase and install generators for key facilities, and will do so as funding allows.	County, municipal funding, Possible FEMA HMA grant for Generators
9	Severe Winter & Summer Storms	Structure and Infrastructure Projects	Work with rural and municipal electrical coops / power companies to identify and address mitigation measures for aboveground power lines that are susceptible to damage from severe winter or summer storms in order to reduce potential power outages. (i.e., strengthening or burying of power lines). Also evaluate telecom infrastructure for wired or wireless communications.	New	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Property Services, NC Public Works and City Public Works in cooperation with the appropriate utility company.	<p>The county and cities will work with appropriate utility service providers as needed to evaluate areas of concern. Service providers for Nicollet County include:</p> <ul style="list-style-type: none"> • BENCO (Blue Earth Nicollet, Faribault Coop) • Brown County REA, • Renville/Sibley Coop, • City of St Peter, • Xcel Energy <p>Areas of concern will be evaluated to see where putting lines underground may be feasible and make sense.</p>	Coop / Electric Company funding, Possible FEMA HMA grant for Infrastructure Retrofit

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10	Severe Winter Weather	Education & Awareness Programs	Encourage/provide education for residents' severe-winter weather preparedness, including for individuals, families, and the elderly.	Ongoing	High	2019-2023	Nicollet County	NC Emergency Management, NC Public Health	This is an ongoing effort of Nicollet County Emergency Management. During periods of winter storms or extreme cold, reminders are put out on preparedness measures such as having home generators, inspecting furnaces and installing carbon monoxide detectors, protecting septic systems, and having emergency travel kits in vehicles. Those who depend on medication are also encouraged to keep a supply on hand.	County funding
11	Severe Winter Weather	Mitigation Preparedness & Response Support	Continue to provide for public safety on roads through snow removal, salting and sanding to minimize the impacts of snow/ice accumulations on roadways.	Ongoing	Moderate	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Public Works, Twp/City Public Works	Nicollet County and its townships complete the snow removal from all county and township roads. Local cities are responsible for winter maintenance of city roads.	County, municipal funding
12	Severe Summer Storms	Education & Awareness Programs	Provide information on building materials and practices for new development to more safely withstand extreme winds and summer storms; such as selection of building materials and inclusion of storm shelters.	Ongoing	Moderate	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Emergency Management, NC Property Services	Nicollet County and many cities have sustained wind damage to roofs, windows, and building sidings from severe wind or hail storms. The county will seek to make information available on more resilient building materials that can sustain severe storms.	County, municipal funding

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13	Severe Summer Storms	Education & Awareness Programs	Encourage/provide education for residents' severe spring & summer storms preparedness, including for individuals, families, and the elderly.	Ongoing	High	2019-2023	Nicollet County	NC Emergency Management, NC Public Health	This is an ongoing effort of Nicollet County Emergency Management. During periods of the year with extreme spring & summer storms, reminders are put out on preparedness measures such as having home generators, understanding tornado warnings vs. watches, what to do when warning sirens go off, and having extra food and water in stock. Those who depend on medication are also encouraged to keep a supply on hand. Homeowners without basements are provided with safety tips on how to shelter in-place within the home. The county also participates in the statewide tornado drill in April each year.	County funding

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14	Severe Summer Storms	Local Planning & Regulations	Work to ensure Minnesota Department of Health (MDH) Evacuation Plan & Storm Shelter Requirements are met in municipalities with manufactured home parks.	On-going	High	2019-2023	Nicollet County, Nicollet, North Mankato, St. Peter	NC Public Health & NC Environmental Health in collaboration City Emergency Managers and Mobile Home Park Owners	Minnesota State Statue (327.205 Shelter Construction Standards) outlines the requirements for MHP's with less than 10 units / more than 10 units for evacuation plans and sheltering facilities for the residents of the park in times of high winds or tornadoes, as well as the responsibility of municipalities with MHPs to assist with/approve of evacuation & shelter plans. All mobile home parks have storm shelters. NC Public Health and NC Environmental Health conduct annual inspections of all MHPs and work to ensure MDH requirement continue to be met. This is particularly important with any changes in MHP ownership.	County, municipal funding, MHP Owner

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15	Severe Summer Storms	Education & Awareness Programs	Continue to ensure that all warning sirens in the county are up-to-date. Install new or upgrade siren warning systems where needed.	Ongoing	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Emergency Management & City Emergency Managers	Nicollet County has warning sirens located in each city throughout the county, however most rural areas are not covered due to their distance from city sirens. Nicollet County will work to evaluate where additional warning sirens may be beneficial and install them. Sirens are activated when the National Weather Service notifies dispatch that there are high winds or tornado conditions that pose risk to public safety. Sirens can also be activated by Dispatch at the request of trained law enforcement or fire personnel. Nicollet County and each city participates in statewide testing of emergency sirens as well as testing them on the first Wednesday of each month.	County funding
16	Severe Summer Storms	Structure and Infrastructure Projects	Identify areas where vulnerable populations are susceptible to tornadoes or extreme wind events (i.e. schools, campgrounds, or mobile home parks) and evaluate for potential construction or retrofit of safe rooms or storm shelters.	New	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Emergency Management in coordination with City Emergency Managers	Nicollet County Emergency Management will work with all city emergency managers to evaluate areas of need for storm shelters or safe rooms, such as for local campgrounds or mobile home parks.	County, municipal funding

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17	Severe Summer Storms	Structure and Infrastructure Projects	Implement construction or retrofit projects for safe rooms or storm shelters in identified vulnerable locations.	New	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Emergency Management, NC Public Health, in coordination with City Emergency Managers	Any community safe room projects that the County is involved in will be part of the Nicollet County Emergency Management program. FEMA grant funding may be sought to support an eligible safe room project.	County, municipal funding, Possible FEMA HMA grant for Safe Rooms
18	Severe Summer Storms	Education & Awareness Programs	Continue to provide the National Weather Service's SKYWARN "Storm Spotter" training in various parts of the County for first responders and community residents.	Ongoing	High	2019-2023	Nicollet County	NC Emergency Management in collaboration with local cities and NWS	Nicollet County offers SKYWARN training on an annual basis for local fire and law enforcement departments and local residents that wish to be trained as volunteers.	County, municipal funding, NWS funding
19	Extreme Temps (Heat / Cold)	Education & Awareness Programs	Provide outreach & education to vulnerable populations in the community (i.e., senior citizens, young adults) on personal safety measures to take during periods of extreme heat / cold.	Ongoing	High	2019-2023	Nicollet County	NC Emergency Management, NC Public Health in collaboration with City Emergency Managers	This is done as part of the NWS annual spring and winter severe weather awareness weeks. It is also done during actual periods of extreme temperatures. Information on staying safe during periods of extreme heat or cold is relayed to the public through channels such as county/city websites, social media, radio, and local newspapers. All schools work to educate students on the dangers of extreme heat and cold as well.	County, municipal funding

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20	Extreme Temps (Hot / Cold)	Local Planning & Regulations / Mitigation Preparedness & Response Support	Develop plans to respond to extreme temperatures situations in Nicollet County.	Ongoing	Moderate	2019-2023	Nicollet County	NC Emergency Management and NC Public Health	The Nicollet County EOP addresses plans and procedures for congregate care. The county also has designated shelter facilities throughout the county that have agreements with the American Red Cross should the need arise to shelter large amounts of people. Sheltering may be required during periods of extreme temperatures (heat/cold) coupled with prolonged power outage.	County Budget
21	Flooding	Education & Awareness Programs	Educate the public on the dangers associated with flooding (i.e., promote "Turn Around, Don't Drown" campaign) and disseminate timely flood warning information.	Ongoing	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Emergency Management	This is a standing effort of the Nicollet County Emergency Management Program. Flood safety information is put out on the county website, newspapers and TV during high precipitation events that may cause flash flooding and danger to motorists. Municipalities also send out emergency flood notifications and safety reminders to residents when needed during high-rain events.	County funding
22	Flooding	Local Planning & Regulations	Update and maintain enforcement of floodplain management ordinances.	Ongoing	High	2019-2023	Nicollet County, Courtland, North Mankato, St. Peter	NC Property Services & Local City Admin.	Nicollet County and the cities of Courtland, North Mankato, and St. Peter all have FEMA-mapped high risk areas and have ordinances in place that address floodplain management. The cities of Lafayette and Nicollet do not, as they do not have current FEMA-mapped high-risk areas and do not participate in the NFIP. (New mapped areas are planned as per below).	County, municipal funding

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23	Flooding	Local Planning & Regulations	Encourage individual landowners who live within floodplain areas to participate in the FEMA National Flood Insurance Program (NFIP).	Ongoing	High	2019-2023	Nicollet County	NC Property Services / Local City Planning & Zoning	Nicollet County Property Services maintains the floodplain maps and GIS layers for the unincorporated areas of the county. The county and local cities will encourage homeowners in high-risk areas to participate in the NFIP.	County, municipal funding
24	Flooding	Local Planning & Regulations	Adopt the new FEMA floodplain maps for Nicollet County, scheduled for 2018-2019.	New	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Property Services, Nicollet County Board, and City Admin/City Councils	New floodplain maps are underway for Nicollet County with a Letter of Final Determination (LFD) planned for some time in 2018 and a New Effective Map Date planned for some time in 2019. The LFD is a letter from FEMA to the community stating maps are final and will become effective in 6 months. Communities must update their ordinance to adopt new maps by this date.	County, municipal funding

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25	Flooding	Structure and Infrastructure Projects	<p>Identify and implement mitigation measures to reduce flood-related risks and damages to culverts, ditches, roads, and bridges in the county.</p> <p>(Examples of mitigation solutions may include but are not limited to culvert and ditch improvements, raising roadbeds, installation of water retention or water diversion, and replacement of aging or failing bridges.)</p>	New	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Property Services, NC Public Works, & City/Township public works & highway depts.	<p>Nicollet County, townships and local cities all work to identify and implement measures to reduce or eliminate the overflow or washout of roads, ditches, and culverts where repetitive flooding occurs (i.e., due to culvert sizing or drainage / debris management).</p> <p>The county maintains plans for prioritized transportation projects, including a 20-Year Roads Improvement Project List and 5-Year Approved Road and Bridge Capital Improvement Plan. Cities and townships maintain an annual inventory of potential and historical problem areas for flooding and plan for projects based on priority and available funding. Efforts are coordinated with private landowners when needed.</p>	<p>County, municipal funding, Possible FEMA HMA grant for Localized Flood Reduction Projects / Infrastructure Retrofit, also Climate Resilient Mitigation Activities</p>

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26	Flooding	Local Planning & Regulations / Structure & Infrastructure Projects	Develop stormwater management plans and ordinances that require improvement of stormwater management systems, including for areas of new development and installation of infrastructure capable of handling a ten to twenty year rain event.	Ongoing	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Property Services, NC Public Works and local city / township Planning/ Public Works depts.	Nicollet County, townships, and local cities all maintain stormwater management plans and work to identify, prioritize, and improvement measures in problem areas. Examples may include to construct, retrofit, or maintain drainage systems to include sewage and water retention and detention systems. The county and cities may seek project funding for eligible stormwater improvement projects through avenues such as the MN DNR Flood Hazard Mitigation Grants, MPCA, and FEMA HMA funding for flood reduction projects.	County, municipal funding, SWCD, and Possible MPCA/PFA grant funding. Possible FEMA HMA grant for Localized Flood Reduction Projects or Infrastructure Retrofit
27	Flooding	Structure and Infrastructure Projects	Upgrade infrastructure to accommodate flooding at CSAH 12 at Kuester Slough and CSAH 21 (TH4 to TH15) & CR 71 (CSAH 41 to Valerie Lane) other various locations as identified where flooding is an issue.	New	High	2019-2023	Nicollet County	NC Public Works	Nicollet County Public Works Dept. has identified that this area floods repeatedly in the spring and with heavy rains and snow melt. However, additional funding is needed to assist in mitigation measures (i.e., raise the road) to address the routine flooding that occurs here.	County funding, MN DNR Flood-Hazard Mitigation Grants, Possible FEMA HMA grant for Localized Flood Mitigation Projects

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28	Flooding	Local Planning & Regulations	Identify properties that experience repetitive damage from flooding and work with property owners on property acquisition & structure demolition / relocation and turn the flood-hazard area into open-space.	New	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Property Services and local city / township public works	This is an ongoing effort of Nicollet County Property Services in conjunction with local jurisdictions that have experienced repetitive flooding.	County, municipal funding, Possible FEMA HMA grant for Property Acquisition & Structure Demolition or Relocation
29	Flooding / Erosion	Education & Awareness Programs	Encourage and provide support to landowners for projects that support conservation of and stabilize natural systems impacted by wind/water erosion.	Ongoing	High	2019-2023	Nicollet County	NC SWCD	Through the State Cost-Share Program, landowners or occupiers can request financial and technical assistance from the Nicollet County SWCD to implement state-approved conservation practices. The program provides up to 75% of the total eligible costs of a practice. Approved construction practices include activities that control nutrient runoff; stabilize critical eroding areas, divert runoff to protect and improve water quality; reduce wind erosion; control gully, rill, or sheet erosion; protect shore land from erosion; control storm water runoff; or protect surface and ground water quality.	SWCD State Cost-Share Program, private landowner 25% cost share

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30	Flooding	Structure and Infrastructure Projects	[CITY OF LAFAYETTE] In the City of Lafayette, work to implement plans to establish a dedicated storm water line to an outfall to mitigate against standing water during big rain events.	New	High	2019-2023	City of Lafayette in coordination with Nicollet County	City Admin/Public Works Dept. in cooperation with NC SWCD, NC Public Works, and NC Property Services	The city of Lafayette is at the beginning of the drainage system and has no set storm sewer. With heavy clay in the substrate, standing water becomes a concern during big rain events. An engineering study was done to find ways to correct problems faced during heavy rain events, 3 areas of concern were taken into consideration. All along the south end of the city where storm water naturally runs along the surface. Cost of the study was \$8,700. Cost for Implementation is estimated at \$1.5 million. This is a cost-prohibitive project without significant outside project funding.	County, municipal funding, MN DNR Flood-Hazard Mitigation Grants, Possible FEMA HMA grant for Localized Flood Reduction Project
31	Flooding	Structure and Infrastructure Projects	[CITY OF NORTH MANKATO] In the City of North Mankato, work to address flood concerns with the Minnesota River as it relates to backflow in the area of Hwy. 169 and Hwy. 14.	New	High	2019-2023	City of North Mankato in coordination with Nicollet County	City Admin/Public Works Dept. in cooperation with NC SWCD, NC Public Works, and NC Property Services	This work is scheduled to be completed during the summer/fall of 2018.	County, municipal funding, MN DNR Flood-Hazard Mitigation Grants, Possible FEMA HMA grant for Localized Flood Reduction Project

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32	Flooding / Erosion	Structure and Infrastructure Projects	[CITY OF NORTH MANKATO] In the City of North Mankato, work to improve levy upkeep, (including vegetation removal) as well as ravine stabilization.	New	High	2019-2023	City of North Mankato in coordination with Nicollet County	City Admin/Public Works Dept. in cooperation with NC SWCD, NC Public Works, and NC Property Services	After heavy rains in 2004 that caused landslides and damage the city of North Mankato worked to repair damaged areas and prepare them for future water events. Over the past several years the North Mankato Public Works department has done ravine work to control erosion during excessive rain events.	County, municipal funding, MN DNR Flood-Hazard Mitigation Grants, Possible FEMA HMA grant for Infrastructure Retrofit Project
33	Flooding / Erosion	Structure and Infrastructure Projects	[CITY OF ST. PETER] In the City of St. Peter, work to re-establish the Granlund Dam, or acquire farmland in area behind dam area and build buffer or water retention area to store release.	New	High	2019-2023	City of St. Peter in coordination with Nicollet County	City Admin/Public Works Dept. in cooperation with NC SWCD, NC Public Works, and NC Property Services	The city of St. Peter will work in cooperation with the County and private landowners to explore feasible solutions for flood issues associated with the loss of the Granlund Dam, which washed out about 4 years ago due to lack of maintenance. If a dam and water retention basin can be re-established, it will be necessary to work with private landowners to convert their wells to connect to the city water supply.	County, municipal funding, Possible FEMA HMA Grant for Infrastructure Retrofit / Flood Diversion & Storage

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34	Flooding / Erosion	Structure and Infrastructure Projects	[CITY OF ST. PETER] In the city of St. Peter, work to increase size of the water retention pond in the area of the new high school & Community Spirit Park to retain/slow the impact of high rain events to the city's stormwater collection system.	New	High	2019-2023	City of St. Peter in coordination with Nicollet County	City Admin/Public Works Dept. in cooperation with NC SWCD, NC Public Works, and NC Property Services	This proposed project is also in relation to the absence of the Granlund Dam. The overflow of water here (in absence of the Dam) impacts the city's stormwater collection system before it flows on to the Minnesota River. The current holding pond would need to be engineered and expanded to make a difference to mitigate this issue.	County, municipal funding, Possible FEMA HMA grant for Infrastructure Retrofit / Flood Diversion & Storage
35	Flooding	Structure and Infrastructure Projects	[CITY OF ST. PETER] In the city of St. Peter, work with the Green Valley Mobile Home Park (MHP) to implement feasible flood mitigation measures for the MHP. Possible options include property acquisition & relocation of the MHP and convert to open space or installation of a large water retention area to hold and slow the impact of floodwaters.	New	High	2019-2023	City of St. Peter in coordination with Nicollet County	City Admin/Public Works Dept. in cooperation with NC SWCD, NC Public Works, NC Property Services, and NC PH / Envr. Health	This is a priority mitigation project for the city of St. Peter. This mobile home park is located on the north end of town on Hwy. 169. Runoff water from an undeveloped, industrial purposes area flows right through the middle of this mobile home park, which was established in the 1950's.	City/Private HMP partnership, Possible FEMA HMA grant for Localized Flood Reduction Measures

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36	Erosion / Landslides	Natural Systems Protection / Structure and Infrastructure Projects	Implement erosion control measures on upland slopes to retain water or slow the velocity and volume of water during high precipitation events.	New	High	2019-2023	Nicollet County	NC SWCD, NC Public Works, NC Property Services	Nicollet County Property Services and SWCD maintain a list of priority problem areas for slope stabilization. Flooding waters flowing from the top of the blufflines down ravines causes extensive erosion which results in severe sedimentation and plugging of highway culverts and ditches. Plugged structures can lead to structures being washed out or water over-topping roadways.	County funding, SWCD State Cost-Share Program, and Possible FEMA HMA grant for Slope Stabilization
37	Erosion / Landslides	Natural Systems Protection	Install soil stabilization, drainage, and erosion control protective measures in areas that repetitively flood (i.e., river and stream banks, steep hillsides adjacent to roads or residential areas).	Ongoing	High	2019-2023	Nicollet County	NC SWCD, NC Public Works, NC Property Services	Identification and addressing soil stabilization / erosion projects is a collaborative effort between Nicollet County Public Works/Engineering, Property Services, and the SWCD. When needed, the county will work directly with private landowners to address mitigation measures.	County funding, SWCD State Cost-Share Program, and Possible FEMA HMA grant for Slope Stabilization
38	Erosion / Landslides	Local Planning & Regulations / Natural Systems Protection	Conduct slope hydrologic assessment along all bluffs of Nicollet County U.S. 169 and County Road 21 and 41. Review existing slopes for soil types, construction, prevention, restoration, setbacks, etc.	New	High	2019-2023	Nicollet County	NC SWCD, NC Public Works, NC Property Services	This is a priority slope stabilization study for public safety along Hwy 169 and County Road 21 and 41 by Nicollet County Public Works/Engineering, Property Services, and the SWCD.	County funding, SWCD State Cost-Share Program, and Possible FEMA HMA grant for Slope Stabilization

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39	Erosion / Landslides	Natural Systems Protection / Structure and Infrastructure Projects	Work with townships throughout the County to identify and implement projects in key areas that will help reduce flood-erosion to hillsides, roads, culverts, and streambanks.	New	High	2019-2023	Nicollet County, All Townships	NC SWCD, NC Public Works, NC Property Services in coordination with Township public works	Nicollet County SWCD regularly works with township governments to address local flood and erosion projects. Examples of current identified issues include Nicollet Township: Improve watershed management to reduce hillside washouts and erosion to the Swan Lake outlet; Lake Prairie Township: Improve streambank stabilization to Faves Creek to reduce bank erosion and avoid road damage. Throughout the county, many townships have issues with culverts that are undersized and cannot handle large volumes of water and/or plug with debris and lead to culvert washouts or over-the-road flooding.	County, municipal funding, possible MN DNR Flood-Hazard Mitigation Grants, possible FEMA HMA grant for localized flood reduction / Slope Stabilization
40	Drought	Local Planning & Regulations / Education & Awareness Programs	Promote water conservation measures to residents during periods of drought. Enforce water conservation ordinances when needed (i.e., that prohibit watering lawns during drought).	Ongoing	High	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	NC Emergency Management in collaboration with NC Property Services, NC SWCD, and local cities	Promoting water conservation during periods of drought is a standing effort of the county and local governments, as well as the USDA and Farm Service Agency (FSA) Office. Nicollet County Property Services also has a Local Water Management Plan that addresses stormwater management and water retention.	County, municipal funding

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41	Drought / Erosion	Natural Systems Protection	Promote landscaping practices that help to mitigate against the impacts of drought and erosion (i.e., installation of shelter belts, measure for shoreline / streambank stabilization, and tree plantings for shade).	Ongoing	Moderate	2019-2023	Nicollet County	NC SWCD	This is a standing effort of the Nicollet County SWCD. The SWCD provides technical assistance to land owners in practices to reduce the impacts of drought and erosion, such as windbreak planning.	SWCD
42	Wildfire	Education & Awareness	Continue to provide public education materials related to the prevention of forest fires and wildfires, particularly during dry spells or periods of drought.	Ongoing	High	2019-2023	Nicollet County	NC Emergency Management in coordination with MNDNR and local fire districts	Wildfire is ranked as a moderate-risk natural hazard in the county. During dry-spells or periods of drought extra measures are taken to inform the public by the MN DNR as well as local fire departments. Fire Prevention Week is held annually each October, and most city fire departments participate and provide an opportunity for residents to learn about fire safety. Local media also shares information with the public via newspaper & radio.	Municipal or fire district funding
43	Wildfire	Local Planning & Regulations	Continue to enforce burning permits/restrictions.	Ongoing	Moderate	2019-2023	Nicollet County	NC Sheriff's Office	The Nicollet County Sheriff's Office regulates when burning can occur with a burn permit. Residents are required to call the Sheriff's Office prior to lighting the fire.	County funding

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44	Wildfire	Local Planning & Regulations	Ensure the strong coordination between local fire departments to provide fire protection, which will reduce the spread of wildfires.	Ongoing	Moderate	2019-2023	Nicollet County, Courtland, Lafayette, Nicollet, North Mankato, St. Peter	Local fire districts	There are 5 fire departments located in Nicollet County, and each department is responsible for wildfires within their department boundaries. All of them have mutual aid agreements in place for structure & wildland fire support.	Fire District funding
45	Wildfire	Natural Systems Protection	Promote positive forestry management techniques including the removal of dead, dry vegetation and trees which may ignite as a result of lightning or human related causes.	Ongoing	Moderate	2019-2023	Nicollet County	Local fire districts in coordination with MN DNR Forestry	This is a collaborative effort between local fire districts with identified high-risk wildfire areas and the MN DNR Firewise Program.	MN DNR, Municipal or fire district funding
46	Wildfire	Education & Awareness Programs	Encourage the use of landscape design and creation of defensible space that will minimize the risk of wildfire, through programs such as Firewise program.	New	High	2019-2023	Nicollet County	Local fire districts in coordination with MN DNR Forestry	This is a collaborative effort between local fire districts with identified high-risk wildfire areas and the MN DNR Firewise Program.	MN DNR, Municipal or fire district funding