

MARSHALL COUNTY

Mitigation Action Chart

#	Hazard	Mitigation Strategy	Mitigation Action	Status Priority Timeframe	Responsibility	Comments on Implementation & Integration	Possible Funding
1	All-Hazards	Education & Awareness Programs	EMERGENCY NOTIFICATION Encourage all county residents to sign-up for the county's CodeRED Emergency Notification System.	Existing High Ongoing	Marshall County Emergency Management (MCEM)	Marshall County maintains the CodeRED Emergency Notification System which allows residents and visitors to sign up ("opt-in") to receive severe weather alerts targeted to their location, along with other local emergency alerts. A link to sign up for the system is located on the Marshall County website.	Marshall County
2	All-Hazards	Mitigation Preparedness & Response Support	EOP PLANNING Ensure the county's Emergency Operations Plan (EOP) is updated and addresses policies & procedures needed to support EM functions prior to, during, and following a disaster.	Existing High Ongoing	MCEM	The Marshall County EOP is updated on a regular basis and addresses functions that dually support mitigation and response for natural disasters, including public information and warning, operational coordination, mass care sheltering, evacuation, and access to resources.	Marshall County
3	All-Hazards	Local Planning & Regulations	PLANS, POLICIES & CODES Adopt and enforce plans, policies, and building codes that reduce risk against future natural hazard events.	Existing High Ongoing	MC Envr. Services, SWCD, MC Hwy. Dept, County Board	Marshall County departments continue to implement and enforce plans, policies, and codes that address risk reduction for natural hazards, including the Marshall County floodplain ordinance, subdivision ordinance, Comprehensive Land Use Plan, 5-year Transportation Plan, Local Water Management Plan, building permits and codes for new development, and the Minnesota State Buffer Law.	Marshall County

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4	All-Hazards	Local Planning & Regulations	<p>REGIONAL PLANNING Participate in regional planning and project efforts that address risk reduction to natural hazard events and improve shared mitigation capabilities.</p>	Existing High Ongoing	MCEM, other county depts.	Marshall County continues to work with key partners on shared efforts that help to mitigate damage from future hazard events, such as flood risk reduction projects, public outreach and education, and regional watershed planning. Long-term active partnerships are in place with the Grand Forks, ND NWS, Marshall SWCD, NRCS, area watershed organizations, as well MN HSEM Region 3 Emergency Managers.	Marshall County, other agencies & organizations
5	All-Hazards	Mitigation Preparedness & Response Support	<p>VULNERABLE POPULATIONS Work in partnership with key partners on efforts to reduce risk to and benefit underserved communities or socially vulnerable populations within the county from the impacts of future natural hazard events.</p>	Existing High Ongoing	MCEM, MC Public Health, MC Social Services, MK Envir. Services/GIS in coord with others	MCEM, MC Public Health (North Valley Health Center), and MC Social Services continue to work with local governments, school districts, hospitals, mobile home park (MHP) operators, long-term care and childcare facilities, MN Dept. of Health, American Red Cross, and the Salvation Army on emergency preparedness efforts that benefit those considered to be more vulnerable in the county from severe weather or extreme temperature events. This includes the elderly, disabled, students, and low-income residents. Example efforts include provision of energy assistance programs during periods of extreme cold, evacuation & shelter planning for long-term care facilities and MHP's, and delivery of education and awareness information in different formats. MCEM and GIS maintain data on location of vulnerable facilities which is incorporated in EM planning.	Marshall County, other agencies & organizations

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6	All-Hazards	Education & Awareness Programs	<p>OUTREACH & EDUCATION Inform and educate residents through outreach and education programs to increase awareness and preparedness for severe weather events, periods of extreme cold, and extended power outages.</p>	Existing High Ongoing	MCEM	Marshall County utilizes the MCEM website page and MCEM Facebook page and local news media to communicate with residents, visitors, schools, and long-term care facilities on emergency preparedness, severe weather conditions, and safety information throughout the year. Marshall County also participates in the NWS annual Winter Hazard Awareness Week and Severe Weather Awareness Week each November and April. Marshall County is a registered NOAA Weather-Ready Nation Ambassador and StormReady Community.	Marshall County
7	Severe Winter Storms	Local Planning & Regulations	<p>SNOW & ICE CONTROL Implement snow removal and ice control to ensure the safety of county roads impacted by winter storms.</p>	Existing High Ongoing	Marshall County Hwy. Dept.	The MC Highway Dept. is responsible for the removal of snow and ice control for county roads, as well as some city and township roads based upon agreement. The department completes its snow removal process in accordance with the Marshall County Hwy Department Snow Removal Policy.	Marshall County
8	Severe Summer Storms	Education & Awareness Programs	<p>SKYWARN TRAINING Work with the National Weather Service (NWS) to provide SkyWarn training and develop a network of trained Storm Spotters throughout the county.</p>	Existing High Ongoing	MCEM in coord with NWS	MCEM works with the NWS to offer this training on an annual basis to local fire and law enforcement departments and local residents that wish to be trained as spotters.	National Weather Service

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9	Severe Summer Storms	Mitigation Preparedness & Response Support	OUTDOOR WARNING SIRENS Ensure outdoor warning sirens are located where needed and functioning properly.	Existing High Ongoing	MCEM in coord with local jurisdictions	Marshall County Emergency Management and Marshall County Sheriff's Office work in conjunction with communities where sirens are located to test them and ensure they are functioning properly. The cities of Holt and Strandquist do not have warning sirens, nor does the Marshall County Fairgrounds. In addition, not all sirens are tied into the county's remote activation system. MCEM will work to close these gaps in warning siren coverage. Grant funding may be available for warning sirens from the USDA Rural Development Community Facilities Grant Program.	Marshall County & local jurisdictions
10	Severe Summer Storms	Structure & Infrastructure Projects	STORM SHELTERS / TORNADO SAFE ROOMS Coordinate with local jurisdictions to address the need for the construction of storm shelters or tornado safe rooms in areas where residents or visitors are vulnerable to high wind events, such as mobile home parks and campgrounds.	Existing High Ongoing	MCEM in coord with local jurisdictions	MCEM will assist any communities in their effort to assess and address the need for construction of a storm shelter or tornado safe room. Grant funding may be available for tornado safe rooms from FEMA Hazard Mitigation Assistance (HMA) grant program funding, based on application approval.	Marshall County, Local Gov't, FEMA HMA
11	Severe Summer Storms	Local Planning & Regulations	MHP SAFTEY Ensure that licensed manufactured home parks (MHP's) within the county meet the requirements of MN Statute 327.20 for shelters and evacuation plans.	Existing High Ongoing	Marshall County Public Health	Marshall County Public Health works in coordination with the Minnesota Department of Health (MDH) on this effort. Shelter and evacuation plans must be approved by the city or township in which they are located and submitted to the MDH.	Marshall County, MDH

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12	Severe Winter & Summer Storms	Structure & Infrastructure Projects	POWERLINE RETROFITS Encourage municipal and rural electric coops to address burying powerlines or strengthening power poles to avoid power outages from high wind events and storms.	Existing High Ongoing	MCEM, local jurisdictions in coord with electric utility providers	MCEM works with our utility coops and local governments on these efforts as needed. FEMA HMA grant funding may be a source for powerline infrastructure retrofits that eligible rural and municipal electric coops can apply for.	Electric Coops, FEMA HMA
13	Severe Winter & Summer Storms	Mitigation Preparedness & Response Support	GENERATOR BACKUPS Work with county departments and local jurisdictions to obtain generator backup power where needed for extended power outages due to storms.	Existing Moderate Ongoing	MCEM in coord with county depts and local jurisdictions	MCEM continues to work with county departments and local jurisdictions to secure portable or permanent backup generators to power critical facilities during extended power outages. Most of our County Courthouse (including our EOC) does not have any backup power, so this is a priority for the county. Where applicable, FEMA HMA grant funding may be applied for generators.	Marshall County, Local Gov't, FEMA HMA
14	Severe Winter & Summer Storms	Mitigation Preparedness & Response Support	SEVERE WEATHER PLANS Encourage schools and other facilities that house senior citizens or other vulnerable populations to have emergency plans in place to deal with severe weather, extreme temperatures, and extended power outages.	Existing Moderate Ongoing	MCEM in coord with local jurisdictions	MCEM continues to work with local jurisdictions provide outreach to and support to schools and other facilities on emergency planning. Schools and long-term care (LTC) facilities are required to have such plans in place. MCEM provides direct training or planning assistance as requested.	Marshall County, Schools, LTC Facilities
15	Severe Winter & Summer Storms	Local Planning & Regulations	BUILDING SAFETY Ensure that new development projects follow state building codes in order to withstand the impacts of severe weather events, including roof collapse from heavy snow or damages from high wind events.	Existing Moderate Ongoing	Marshall County Envr. Services	Marshall County Environmental Services Dept. oversees permits for new development. Marshall County recommends building to the specifications as provided by the State of Minnesota's Department of Labor and Industry in order to minimize financial burdens and potential safety hazards which can arise from poorly constructed buildings.	Marshall County

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16	Severe Winter & Summer Storms	Natural Systems Protection	VEGETATION MANAGEMENT Manage trees and other vegetation along roads from severe storm events to reduce risk to passing motorists.	Existing Moderate Ongoing	MC Highway Dept., Local Utility Providers	Marshall County Highway Dept. regularly conducts vegetation management along county roads to reduce the risk of downed trees or branches resulting from severe spring and summer storm events. Local utility providers also work to manage vegetation near power lines to reduce the risk of downed lines and power outages.	County, Utilities
17	Extreme Cold Temps	Education & Awareness Programs	EXTREME COLD PUBLIC OUTREACH Conduct public outreach and provide information to residents on safety measures when there are periods of extreme cold.	Existing High Ongoing	MCEM	MCEM works to share information received from the National Weather Service when periods of extreme cold are forecast and occurring. MCEM utilizes the county EM website page, and EM Facebook. Local radio and TV stations also provide this information to the public. School Districts have plans and policies in place for delaying or closing school to protect students from extreme temps.	Marshall County
18	Landslides	Natural Systems Protection	SETBACK REQUIREMENTS Enforce Shoreland and Floodplain ordinances that include setbacks to reduce risk where flooding or erosion could occur and increase risk for landslides.	New Moderate 2024 - 2029	MC Highway Dept. in coor with MC Envr. Services and Davis Township	MC Environmental Services maintains and enforces Shoreland and Floodplain Ordinances that include setbacks from water sources and areas where flooding or erosion could occur. Within the Shoreland Ordinance, development is regulated in bluff impact zones.	Marshall County

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19	Landslides	Local Planning & Regulations	MN STATE BUFFER LAW Enforce requirements of the MN State Buffer Law to help reduce impacts of erosion in areas that may be susceptible to landslides.	Existing Moderate Ongoing	MC Hwy. Dept. in coord with TRWD and SWCD	Marshall County adopted the requirements of the Minnesota Buffer Law as part of the Marshall County ordinances (adopted 03/06/2018). The Two Rivers Watershed District has also adopted the requirements of the MN Buffer Law on legal ditches for which they are the ditch authority. The purpose and intent of the law is to protect state water resources from erosion and runoff pollution; to stabilize soils, shores and banks; and to protect or provide riparian corridors. The Buffer Law is enforced by the Marshall County Highway Dept. in coordination with the Marshall Soil and Water Conservation District.	Marshall County, TRWD, SWCD
20	Flooding	Local Planning & Regulations	NATIONAL FLOOD INSURANCE PROGRAM Participate in the National Flood Insurance Program and enforce policies that address development in high-risk flood areas.	Existing High Ongoing	Marshall County Environmental Services	Marshall County participates in the NFIP and enforces requirements of the program. The Marshall County Floodplain Ordinance (03-02-2021) establishes the flood plain district and zoning regulations and conditional uses permitted within the floodway, flood fringe, and general floodplain districts. The Environmental Services Department maintains and enforces the floodplain management ordinance for the county.	Marshall County

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21	Flooding	Local Planning & Regulations / Structure & Infrastructure Projects	LOCALIZED FLOOD RISK REDUCTION Plan for and implement measures to address localized flood reduction projects for roads, bridges, and culverts throughout the county.	Existing High Ongoing	MC Hwy. Dept.	The Marshall County Highway Department is responsible for the survey, design, construction, inspection, maintenance and repair of roads and bridges throughout the county. The Highway Department updates the county's Five-Year Construction Plan annually. This update involves adding a year to the program as well as updating or revising the other years within the program.	Marshall County
22	Flooding	Local Planning & Regulations / Structure & Infrastructure Projects	FLOOD MITIGATION & EMERGENCY PLANNING Work with communities at risk of large-scale flooding on evacuation plans and targeted flood risk reduction projects.	Existing High Ongoing	MCEM, MC Hwy. Dept, in coord with BTAG	MCEM and the MC Highway Dept. continue to work with the Border Township Associative Group (BTAG) to address road access and emergency routes for periods of flooding. The BTAG consists of area townships in Minnesota and North Dakota and the City of Oslo, MN. The group's mission is to mitigate flooding in the valley by removing flow restrictions, modifying bridges, and raising roads and levees.	Marshall County, BTAG
23	Flooding	Local Planning & Regulations	WATERSHED PLANNING Work with area watershed organizations to address mitigation plans and projects that address risk reduction for localized flooding and erosion.	Existing High Ongoing	MCEM, MC Envr. Services in coord with TRWD	MC Environmental Services participates in two regional, multi-county watershed planning efforts (Thief River 1W1P and Middle Snake Tamarack Rivers 1W1P). Both plans include considerations for flood risk areas within the regional watershed planning area.	Marshall County, TRWD, MSTRWD, SWCD

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24	Flooding	Local Planning & Regulations	PROPERTY BUYOUTS Conduct property buyouts to acquire homes affected by repetitive flooding and physically relocate or remove those homes to eliminate future flood damages.	Existing Moderate Ongoing	MCEM	There are currently no potential property buyout projects identified by Marshall County. The county will continue to evaluate and assist with potential future property acquisition projects and application to FEMA or MN DNR for grant funding to conduct buyouts.	Marshall County, FEMA HMA
25	Flooding	Natural Systems Protection	RESTORATION PROJECTS Conduct floodplain and stream corridor restoration in areas that are impacted by high rain events.	Existing Moderate Ongoing	MC Envr. Services in coord with SWCD and other watershed groups	This is an ongoing effort of MC Environmental Services in coord with watershed district partners (TRWD, MSTWD), NRCS, and Marshall SWCD as projects are identified in the IWIP regional plans. FEMA HMA grant funding may be sought for future eligible projects in the future.	TRWD, MSTWD, NRCS, SWCD, FEMA HMA
26	Flooding	Structure & Infrastructure Projects	FLOOD DIVERSION & STORAGE PROJECTS Construct flood diversion and storage projects as needed to reduce the impacts of high rain events on streams, rivers, or drainage systems which may result in localized or downstream flooding.	Existing Moderate 2023-2028	MC Envr. Services in coord with others	Marshall County Environmental Services is working with the City of Newfolden and the Middle Snake Tamarac Rivers Watershed District on the current flood mitigation diversion channel and impoundment project. The goal of the project is to provide flood protection to the City of Newfolden above the 1% flood threshold.	TRWD, City of Newfolden
27	Drought	Education & Awareness Programs	DROUGHT OUTREACH & EDUCATION Provide outreach and education to residents to be aware of watering restrictions, water conservation tips, and fire safety during periods of severe drought.	Existing High Ongoing	MCEM	MCEM continues to provide public outreach and education during heightened drought periods using the county website and social media platforms. MCEM encourages city and townships to promote drought awareness to residents at the local level.	Marshall County

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28	Drought	Local Planning & Regulations	WATERING RESTRICTIONS Implement watering restrictions during periods of drought as per MN DNR guidance.	Existing High Ongoing	MCEM in coord with MN DNR and local jurisdictions	Marshall County and local jurisdictions will establish and enforce watering restrictions as per MN DNR guidelines during periods of severe drought.	Marshall County, Local Gov'ts
29	Dam/Levee Failure	Structure & Infrastructure Projects	DAM & LEVEE SAFETY Work with the MN DNR Dam Safety program to address any dams or levees that require repair.	Existing Low Ongoing	MN DNR	Marshall County continues to be available to work with the MN DNR on any issues that may arise with these structures within the county. There are no high hazard potential dams within the county.	MN DNR