

Table G - 5. Mitigation Actions Identified for Implementation by the City of Delavan (2017-2021) (From Faribault County Master Mitigation Action Chart)

#	Hazard	Mitigation Strategy	City of Delavan Mitigation Action	Status	Priority Ranking	Time-frame	Jurisdictions	Responsibility	County/City Comments on Planning Mechanisms for Implementation	Possible Funding
1	All-Hazards	Education & Awareness Programs	Work to ensure that all Faribault County residents are aware of and sign-up for the Nixle 360 emergency notification system	On-going	High	2017-2021	Faribault County Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago	Emergency Management in coordination with local city and township government	This is a standing effort of the Faribault County Emergency Management Program. Sign-up for Nixle 360 is available on the Faribault County website. Cities also work to promote sign-up by local residents by sharing information on city websites and announcements at public meetings.	County Budget
6	All-Hazards	Local Planning & Regulations / Mitigation Preparedness and Response Support	Ensure there are designated facilities throughout the county that are prepared to provide emergency mass care services for residents due to a severe storm, flooding, extreme temperatures, or other hazard event.	On-going	High	2017-2021	Faribault County Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago	FC Emergency Management & Faribault/Martin County Human Services in coordination with local cities and the American Red Cross	Planning for mass care sheltering is an ongoing effort of Faribault County Emergency Management & Faribault/Martin County Human Services in coordination with local cities. The City of Wells has designated their Community Building, the City of Blue Earth has designated the Senior Center, and the City of Frost has designated the Viking Community Center as an emergency shelter. Designation of additional shelter facilities is needed in other areas of the county. Securing back-up power for our designated shelter facilities is a priority.	County / City Budgets

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9	Severe Winter & Summer Storms	Mitigation Preparedness and Response Support	Identify critical facilities or infrastructure that do not have back-up 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 &amp; sewer treatment facilities, and other facilities deemed as critical, i.e. public schools and sheltering facilities).</i>	New	High	2017-2021	Faribault County Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago and School Districts	Emergency Management, City Admin & Public Works	Faribault County and numerous jurisdictions have identified a need for back-up power for government buildings or other critical facilities or infrastructure. Currently, generator backup power is provided to the Faribault County Sheriff's Office which includes the jail, 911 dispatch center, and EOC. There is also generator backup power at the Blue Earth Fire Hall/Police Department, the Minnesota Lake Fire Hall, and the Blue Earth Area High School.	County/City budgets
10	Severe Winter & Summer Storms	Mitigation Preparedness and Response Support	Purchase and install generator hook-ups and encourage local generator purchases for identified critical facilities that require back-up power.	New	High	2017-2021	Faribault County Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago and School Districts	Emergency Management, City Admin & Public Works	Faribault County, local city governments, and schools will evaluate feasibility to purchase and install generators for key facilities.	County/City Budgets, MDH WHP grant, <b>Possible FEMA HMA 5% Initiative Funding for Generators</b>

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11	Severe Winter & Summer Storms	Structure and Infrastructure Projects	Work with rural electrical coops, municipal utilities, and utility companies to identify and address mitigation measures for above ground power lines (i.e., strengthening/burying) that are susceptible to damage from severe storms in order to reduce potential power outages.	New	High	2017-2021	Faribault County Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago	Blue Earth Light & Water, Wells Public Utilities, Benco Electric Co-Op, and Xcel Energy in cooperation with local cities	Power lines in nearly all communities in Faribault County are located above ground and are very susceptible to wind damage and/or ice/snow accumulation. Faribault County and cities will work with electric coops to identify areas of concern and discuss potential measures such as converting overhead lines to underground lines in areas that have been subject to repetitive damage. Rural electric cooperatives may be eligible to apply for FEMA HMA funding.	Electric Coop Funding, <b>Possible FEMA HMA funding for Infrastructure Retrofit</b>
12	Severe Winter & Summer Storms	Local Planning & Regulations	Utilize city ordinances to discourage placement of trees near power lines.	On-going	Moderate	2017-2021	Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago	Local City Admin and Public Works	The cities of Winnebago and Minnesota Lake have Urban Forestry policies. Other cities and township are encouraged to adopt a similar policy to address trees and overhead power lines.	City Budget
14	Severe Winter & Summer Storms	Education & Awareness Programs	Promote the use of NOAA weather radios by critical facilities and the public to receive information on severe weather from the National Weather Service.	On-going	High	2017-2021	Faribault County Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago	FC Emergency Management & Faribault/Martin County Public Health in coordination with local cities	This is a standing effort of the Faribault County Emergency Management Program. Local cities are also encourage to promote the use of NOAA weather radios within their jurisdictions.	County/City Budgets

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16	Severe Summer Storms	Mitigation Preparedness & Response Support	Provide/participate in the National Weather Service's SkyWarn "Storm Spotter" training in various parts of the County for first responders and community residents.	On-Going	High	2017-2021	Faribault County Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago	FC Emergency Management in collaboration with local cities and NWS	Faribault County hosts a SKYWARN class each year and all police and fire departments participate in storm spotting. These individuals help keep their local communities safe by providing timely and accurate reports of severe weather to their local National Weather Service office as well as our dispatch center. FC utilizes its network of trained Storm Spotters to help spot and report severe summer storm activity.	County Budget and NWS funding to deliver program

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17	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 construction or retrofit of safe rooms or storm shelters. Work with all school districts to make sure that schools have a safe room for students and staff to go to in the event of a tornado.	On-going	High	2017-2021	Faribault County Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago and School Districts: Blue Earth Area School District, United South Central School District, Maple River School District	FC Emergency Management & Faribault/Martin County Public Health in coordination with townships, local cities, and school districts	There are no designated community safe rooms located in Faribault County. There are communities, parks, schools, and camps that would benefit from a safe room structure, but they must be evaluated for feasibility of construction or retrofit. Faribault County Emergency Management will encourage all school districts to evaluate their buildings for construction or retrofit of a safe room. The Blue Earth Area High School is a concern as the HS is all ground level. Construction of a safe room for the United South Central School District has also been expressed as a concern for a safe room. All schools practice tornado drills as part of school emergency preparedness.	County/City Budgets, <b>Possible FEMA HMA funding for Safe Room Construction</b>

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18	Severe Summer Storms	Structure and Infrastructure Projects	Implement construction or retrofit projects for safe rooms or storm shelters in identified vulnerable locations.	On-going	High	2017-2021	Faribault County Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago and School Districts: Blue Earth Area School District, United South Central School District, Maple River School District	FC Emergency Management & Faribault/Martin County Public Health in coordination with townships, local cities, and school districts	Any community safe room projects that the County is involved in will be part of the FC Emergency Management program. FC Emergency Management will work with any school or jurisdiction seeking to develop an application to FEMA for a safe room project.	County/City and School District Budgets, <b>Possible FEMA HMA funding for Safe Room Construction</b>
25	Flooding	Local Planning & Regulations / Structure & Infrastructure Projects	Develop, improve, or maintain stormwater management plans and improve stormwater management systems at the city level.	New	High	2017-2021	Faribault County Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago	FC Drainage Dept., FC Public Works, FC Highway Dept., FC SWCD, FC P&Z, local city planning/public works depts., MNDNR, MPCA	Development of stormwater management plans applies to the cities of Bricelyn, Wells, Winnebago, and Minnesota Lake. Kiester is also actively proceeding to do some stormwater management projects. Easton is also looking at doing some projects in conjunction with ditch work.	County/ SWCD budgets. Possible MPCA/PFA grant funding, Green Infrastructure Reserve

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26	Flooding	Education & Awareness Programs	Work to provide education to homeowners in all cities on green infrastructure methods to assist in local stormwater management.	New	High	2017-2021	Faribault County Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago	FC Drainage Dept., FC SWCD, FC P&Z, and local city Public Works	Local cities are encouraged to adopt a Green Infrastructure (GI) Policy and education program to promote proper installation of green infrastructure practices throughout area on both public and private land.	County /City Budgets, Township Budgets
27	Flooding	Structure & Infrastructure Projects	Work to implement green infrastructure projects at the county/city level to mitigate localized flood reduction issues.	New	High	2017-2021	Faribault County Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago	FC Drainage Dept., FC SWCD, FC P&Z, and local city Public Works	Identification of green infrastructure projects around buildings that are at risk should be researched and implemented to mitigate against flood damage. Many flooding issues are not due to riverine sources but due to outdated infrastructure, increased impermeable surfaces, and climate change.	County/City Funding, <b>Possible FEMA Funding for Green Infrastructure Projects</b>
28	Flooding	Local Planning & Regulations	Ensure that wellhead protection plans are in place to address flooding that may lead to contaminated drinking water.	New	High	2017-2021	Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago	FC SWCD, MN Dept of Health and local city planning/public works depts.	Cities work directly with the Minnesota Department of Health on the development or update of wellhead protection plans to ensure they meet State requirements.	MDH Source Water Protection grant funding for wellhead improvement projects

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32	Flooding	Mitigation Preparedness & Response Support	Install generators and pumps to be able to pump water in the event of a flood where outlet to a city is a drainage system to reduce/prevent damage to structures (buildings/houses).	New	High	2017-2021	Faribault County, Easton, Frost, <b>Delavan</b> , Wells, and Winnebago	FC Drainage Dept., FC SWCD, FC P&Z	The FC Drainage Department has identified that this need currently exists for the cities of Easton, Frost, Delavan, Wells, and Winnebago	County Budget, FC Drainage, City, State funding
33	Flooding	Structure and Infrastructure Projects	Ensure proper sizing of culverts to prevent roads and driveways washing out during flooding, specifically on drainage systems.	New	High	2017-2021	Faribault County Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago and all Townships	FC Drainage Dept., FC Public Works, FC SWCD, FC P&Z	Faribault County strives to constantly improve its road and culvert infrastructure against flooding, but is limited by financial resources to go beyond maintenance on some projects. Education is needed to understand the implications of making changes to the culvert and drainage systems.	County, City and Township Budgets
36	Flooding	Local Planning & Regulations / Structure & Infrastructure Projects	Work with communities to ensure that stormwater management plans are in place and to upgrade existing storm sewer systems in order to handle future high-impact rain events.	On-going	High	2017-2021	Faribault County Blue Earth, Bricelyn, <b>Delavan</b> , Easton, Elmore, Frost, Kiester, Minnesota Lake, Walters, Wells, Winnebago	FC Drainage Dept., FC SWCD, FC P&Z in coordination with local city planning/public works, MN DNR and MPCA	Every city in Faribault County needs stormwater infrastructure improvements and upgrades. All cities have undersized infrastructure constructed out of outdated materials.	County/City budgets, Possible MPCA/PFA grant funding