

Table G - 17. Mitigation Actions Identified for Implementation by the City of Zumbro Falls (2017-2021) (From the Wabasha County Master Mitigation Action Chart)

#	Hazard	Mitigation Strategy	City of Zumbro Falls 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 Wabasha County residents are aware of and sign-up for the CodeRed emergency notification system.	Ongoing	High	2017-2021	Wabasha County Bellechester, Elgin, Hammond, Kellogg, Lake City, Mazeppa, Millville, Minneiska, Plainview, Wabasha, Zumbro Falls	WC Emergency Management and all City Emergency Managers	Wabasha County uses CodeRED as its emergency notification system to alert residents of severe weather and other hazards via phone call, text and email. City Emergency Managers promote local residents to sign up for CodeRED on a regular basis.	County Budget
6	Severe Winter Storms / Summer Storms	Education & Awareness Programs	Promote the use of NOAA weather radios as a key communications resource for residents, businesses, and facilities that house vulnerable populations (i.e., nursing homes, group homes, senior centers, and day care facilities).	Ongoing	High	2017-2021	Wabasha County Bellechester, Elgin, Hammond, Kellogg, Lake City, Mazeppa, Millville, Minneiska, Plainview, Wabasha, Zumbro Falls	WC Emergency Management and local city emergency managers	This is an Ongoing effort of emergency management programs at the county and local city level.	County/City budgets

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8	Severe Winter Storms / 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	2017-2021	Wabasha County Bellechester, Elgin, Hammond, Kellogg, Lake City, Mazeppa, Millville, Minneiska, Plainview, Wabasha, Zumbro Falls	Wabasha County Emergency Management, City Admin & Public Works	Wabasha County and numerous jurisdictions have identified a need for backup power for government buildings or other critical facilities such as mass care shelters.	County/City budgets
9	Severe Winter Storms / Summer Storms	Mitigation Preparedness & Response Support	Purchase and install generators or related equipment (e.g., generator hook-ups) for identified critical facilities that require backup power.	New	High	2017-2021	Wabasha County Bellechester, Elgin, Hammond, Kellogg, Lake City, Mazeppa, Millville, Minneiska, Plainview, Wabasha, Zumbro Falls	Wabasha County Emergency Management, City Admin & Public Works	Wabasha County, local city governments, and schools will evaluate feasibility to purchase and install generators for key facilities.	County/City Budgets, Possible FEMA HMA funding for Generators

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10	Severe Winter Storms / Summer Storms	Structure and Infrastructure Projects	Work with public utilities to evaluate/implement mitigation projects such as hardening or burying of power lines that are vulnerable to failure from severe ice storms or wind storms.	New	High	2017-2021	Wabasha County Bellechester, Elgin, Hammond, Kellogg, Lake City, Mazeppa, Millville, Minneiska, Plainview, Wabasha, Zumbro Falls	Wabasha County Highway Department, local city Public Works in collaboration with People's Energy Cooperative, Xcel Energy, and Lake City Municipal Utilities	Wabasha County Highway Department and local city public works/roads departments regularly work with the power utilities to address power line areas of concern.	Energy Coop Funding, Possible FEMA HMA funding for Infrastructure Retrofit
13	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.	New	High	2017-2021	Wabasha County Bellechester, Elgin, Hammond, Kellogg, Lake City, Mazeppa, Millville, Minneiska, Plainview, Wabasha, Zumbro Falls	Wabasha County Emergency Management	This is a standing effort of the Wabasha County Emergency Management program.	County/City/ School budgets

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14	Severe Summer Storms	Structure and Infrastructure Projects	Implement construction or retrofit projects for safe rooms or storm shelters in identified vulnerable locations.	New	High	2017-2021	Wabasha County Bellechester, Elgin, Hammond, Kellogg, Lake City, Mazeppa, Millville, Minneiska, Plainview, Wabasha, Zumbro Falls	Wabasha County Emergency Management in coordination with participating city or school	Any community safe room projects that the County is involved in will be part of the Wabasha County Emergency Management program.	Possible FEMA HMA funding for Safe Room Construction
17	Extreme Temps (Heat & Cold)	Local Planning & Regulations	Evaluate and address community capabilities to provide temporary warming or cooling centers to the public during periods of extreme hot or cold temperatures.	Ongoing	High	2017-2021	Wabasha County Bellechester, Elgin, Hammond, Kellogg, Lake City, Mazeppa, Millville, Minneiska, Plainview, Wabasha, Zumbro Falls	Wabasha County Emergency Management in collaboration with city Emergency Managers	Wabasha County Emergency Management and local city emergency managers will work to meet needs at the local level, such as use of local churches or community centers with heating/cooling capacity to accommodate those who need assistance (i.e., elderly).	County/City budgets

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21	Flooding	Structure and Infrastructure Projects	Identify and implement local flood-reduction measures to reduce flood impacts to transportation infrastructure, (i.e., armoring with riprap along streams adjacent to roads & bridges and at culvert outlets, and upsizing of culverts where repeated over-topping occurs or debris potential).	New	High	2017-2021	Wabasha County Bellechester, Elgin, Hammond, Kellogg, Lake City, Mazeppa, Millville, Minneiska, Plainview, Wabasha, Zumbro Falls	Wabasha County Highway Department	The Highway Department is planning improvements at culvert locations in need of riprap, grouting riprap, and for some locations increases in the size of culverts or performance of ditch work to help during large events. Removal of sediment and clearing around existing culverts is also planned. Planning is based on risk (condition, culvert size). Additional (and perhaps upsized) riprap at bridges over larger streams is being considered.	Possible FEMA HMA funding for Local Flood Reduction Projects
24	Flooding	Local Planning & Regulations	Continue participation in the National Flood Insurance Program (NFIP). (Jurisdictions with FEMA-mapped high risk areas.)	New	High	2017-2021	Wabasha County City of Mazeppa, City of Wabasha, City of Minneiska City of Zumbro Falls	Wabasha County Planning/Land Use and Local City Admin	Wabasha County and cities of Mazeppa, Wabasha, Zumbro Falls, and Minneiska all participate in the NFIP and have FEMA mapped high risk areas.	County/City Budgets

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25	Flooding	Local Planning & Regulations	Ensure all cities within Wabasha County have Shoreland and/or Floodplain Ordinances that meet state and federal regulations.	New	High	2017-2021	Wabasha County Elgin, Hammond, Kellogg, Lake City, Mazeppa, Millville, Minneiska, Wabasha, Zumbro Falls	County / local city Planning and Zoning departments	This is a required piece of participation in the NFIP program as well as standard local-level city ordinance development.	County/City budget
31	Flooding	Local Planning & Regulations	Ensure that storm water management plans and improvement projects are identified and prioritized to address flood management for future high-impact rain events throughout the County (i.e., conduct hydro-modeling, GIS map of where culverts must be re-sized).	Ongoing	New	2017-2021	Wabasha County Bellechester, Elgin, Hammond, Kellogg, Lake City, Mazeppa, Millville, Minneiska, Plainview, Wabasha, Zumbro Falls	WC Planning & Zoning, WC Highway Dept., WC SWCD and local city public works depts.	Wabasha County will work to ensure we identify needed storm water management plans and improvement projects for future high-impact rain events. Wabasha SWCD will work with County agencies to provide upland water retention structures on private land to protect down-slope infrastructure whenever possible.	County / SWCD / Watershed District Budgets and outside grant funding
32	Flooding	Structure and Infrastructure Projects	Implement storm water management structure and infrastructure projects to assist with flood management throughout the County.	Ongoing	New	2017-2021	Wabasha County Bellechester, Elgin, Hammond, Kellogg, Lake City, Mazeppa, Millville, Minneiska, Plainview, Wabasha, Zumbro Falls	WC Highway Dept., Public Works, and local city public works depts., Wabasha SWCD	Wabasha County will work toward implementing a storm water management structure. Wabasha SWCD will provide technical and financial assistance to private landowners to implement water retention and control when possible to mitigate flooding hazards.	County/City Budgets Possible FEMA HMA funding for Localized Flood Reduction Projects, State and Federal funds

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33	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	Wabasha County Bellechester, Elgin, Hammond, Kellogg, Lake City, Mazeppa, Millville, Minneiska, Plainview, Wabasha, Zumbro Falls	WC Planning & Zoning, WC SWCD and local city public works depts.	Cities work with the Minnesota Department of Health on the development or update of wellhead protection plans to ensure they meet State requirements. MDH tailors source water protection requirements and recommendations for public water suppliers (PWS). The Wabasha County SWCD has worked with municipalities to develop strategies to protect drinking water supply management areas and implement practices with landowners in those areas that will protect and improve water quality.	County/City Budgets, Federal and State funding sources
35	Drought	Education & Awareness Programs	Educate the public on water conservation measures and fire safety awareness during periods of drought.	Ongoing	High	2017-2021	Wabasha County Bellechester, Elgin, Hammond, Kellogg, Lake City, Mazeppa, Millville, Minneiska, Plainview, Wabasha, Zumbro Falls	Wabasha County Emergency Management in collaboration with SWCD, local cities, and MN DNR	Promoting water conservation during periods of drought is a standing effort of the County, local governments, and MN DNR. Wabasha SWCD provides education on water conservation through annual events and promotes practices that benefit water quality.	County/City Budgets, Federal and State funding sources