

Table 31. All Mitigation Actions for Hubbard County

#	Hazard	Mitigation Strategy	Mitigation Action	Status	Priority Ranking	Time-frame	Jurisdictions	Responsibility	County Comments on Planning Mechanisms for Implementation	Possible Funding
1	All-Hazards	Education & Awareness Programs	Work to ensure that all Hubbard County residents are aware of and sign-up for the CodeRed emergency notification system.	Ongoing	High	2017-2021	Hubbard County Akeley, Laporte, Nevis, Park Rapids	HC Emergency Management in coordination with local city and township government	This is a standing effort of the Hubbard County Emergency Management Program. Sign-up for CodeRed is available on the HC Emergency Management website and reminders are also put out via Facebook. Cities also work to promote sign-up by local residents by sharing information on city websites and announcements at public meetings.	County Budget
2	All-Hazards	Local Planning & Regulations	Form an Emergency Planning Committee, which will meet semi-annually to discuss emergency preparedness and response issues.	Ongoing	High	2017-2021	Hubbard County	HC Emergency Management	Development of an emergency preparedness group is an Ongoing planning effort of the HC Emergency Management Program. The group will include representation from the county, cities, townships, and other agencies such as the American Red Cross and MN DNR.	County Budget
3	All-Hazards	Mitigation Preparedness and Response Support	(Schools) Identify and purchase essential supplies and have them readily available in all schools.	Ongoing	High	2017-2021	Hubbard County ISD #306 (Laporte) ISD#308 (Nevis) ISD #309 Park Rapids	HC Emergency Management in coordination with School Districts	HC Emergency Management encourages all school districts to have essential supplies on-hand (i.e., NOAA weather radios, first aid kits, flashlights etc.) to provide for students and staff safety in the event of a hazard event.	School District Budgets
4	All-Hazards	Mitigation Preparedness and Response Support	(Schools) Install remote locking system for all main entrance points.	Ongoing	High	2017-2021	Hubbard County ISD#308 (Nevis) ISD #309 Park Rapids	HC Emergency Management in coordination with School Districts	HC Emergency Management will work in coordination with Hubbard Co. school districts to address as funding & budgets allow at each school district.	School District Budgets

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5	All-Hazards	Mitigation Preparedness and Response Support	(Schools) Install universal locks throughout the entire school so each room can easily be accessed with a master key.	Ongoing	High	2017-2021	Hubbard County ISD#308 (Nevis) ISD #309 Park Rapids	HC Emergency Management in coordination with School Districts	HC Emergency Management will work in coordination with Hubbard Co. school districts to address as funding & budgets allow at each school district.	School District Budgets
6	All-Hazards	Mitigation Preparedness and Response Support	(Schools) Implement measures to allow for remote accessibility of school warning systems.	Ongoing	High	2017-2021	Hubbard County ISD #306 (Laporte) ISD#308 (Nevis) ISD #309 Park Rapids	HC Emergency Management in coordination with School Districts	HC Emergency Management will work in coordination with Hubbard Co. school districts to address as funding & budgets allow at each school district.	School District Budgets
7	All-Hazards	Mitigation Preparedness and Response Support	(Schools) Practice remote access from Hubbard County Law Enforcement Center.	Ongoing	High	2017-2021	Hubbard County ISD #306 (Laporte) ISD#308 (Nevis) ISD #309 Park Rapids	HC Emergency Management in coordination with School Districts	The Hubbard County Sheriff's Office manages the remote access system for each school and practices with it regularly to ensure functionality.	County Budget
8	All-Hazards	Mitigation Preparedness and Response Support	(Schools) Purchase backup generators for all schools currently without a backup power source.	Ongoing	High	2017-2021	Hubbard County ISD #306 (Laporte) ISD#308 (Nevis) ISD #309 Park Rapids	HC Emergency Management in coordination with School Districts	HC Emergency Management will work in coordination with Hubbard Co. school districts to address as funding & budgets allow at each school district.	School District Budgets

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9	All-Hazards	Mitigation Preparedness and Response Support	(Schools) Plan and implement a mock disaster response in coordination with other agencies for a hazardous material spill.	Ongoing	High	2017-2021	Hubbard County ISD #306 (Laporte) ISD#308 (Nevis) ISD #309 Park Rapids	HC Emergency Management in coordination with School Districts	HC Emergency Management works to conduct drills & exercises at the school locations when feasible. The county with schools to address shelter-in-place or evacuation planning for any emergency event.	County Budget
10	All-Hazards	Mitigation Preparedness and Response Support	(Schools) Continue to practice various types of mock drills including fire and tornado drills.	Ongoing	High	2017-2021	Hubbard County ISD #306 (Laporte) ISD#308 (Nevis) ISD #309 Park Rapids	HC Emergency Management in coordination with School Districts	All Hubbard Co. schools are encouraged to practice & drill for tornados, and mock car crash drills are carried out at the high schools throughout the county.	School District Budgets
11	All-Hazards	Mitigation Preparedness and Response Support	(Schools) Update school Emergency Operations Plans regularly and ensure copies are available to Hubbard Co. EM and Law Enforcement.	Ongoing	High	2017-2021	Hubbard County ISD #306 (Laporte) ISD#308 (Nevis) ISD #309 Park Rapids	HC Emergency Management in coordination with School Districts	All schools are asked to provide an updated copy to the HCSO EM Office at the start of each school year.	School District Budgets
12	Severe Winter & Summer Storms	Education & Awareness Programs	Educate the public on the dangers of severe winter and summer storms to help protect life safety during severe storm events (i.e., stay away from downed power lines, winter driving hazards, etc.)	Ongoing	High	2017-2021	Hubbard County, Akeley, Laporte, Nevis, Park Rapids	HC Emergency Management in coordination with local cities	Hubbard County participates annually in the National Weather Service's Winter Hazard Awareness Week (November) and Severe Weather Awareness Week (April). Cities are encouraged to further share information within their jurisdictions (i.e., website, FB posting).	County/City Budgets

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13	Severe Winter & Summer Storms	Education & Awareness Programs	Promote individual and family emergency preparedness for safety and survival during periods of severe winter and spring/summer weather.	Ongoing	High	2017-2021	Hubbard County, Akeley, Laporte, Nevis, Park Rapids, and School Districts #306, #308, #309	HC Emergency Management in coordination with local cities	Hubbard County Emergency Management provides regular education and awareness information to the public through local newspapers, radio, and the Hubbard County Sheriff's Office FB page. Individuals and families are encouraged to prepare 3-days of food and water, to have a NOAA weather radio, to have generator power, to create a go-kit in the event of evacuation, and to be ready to care for pets.	County/City Budgets
14	Severe Winter & Summer Storms	Mitigation Preparedness and 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	Hubbard County, Akeley, Laporte, Nevis, Park Rapids, and School Districts #306, #308, #309	HC Emergency Management, City Admin & Public Works	Hubbard County, all cities, and school districts have identified a need for backup power to support continuity of operations in critical facilities and functioning of critical infrastructure. Hubbard County will identify where generators are needed throughout the campus of County facilities that are capable of supplying full electricity (shops, offices, fuel pumps, and internet) to power all operations. A high priority is installation of a permanent generator for the County's fuel facility, which supplies fuel for the HC Sheriff's Department, City of Park Rapids Police Department, DNR, and Park Rapids School.	County/City budgets

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15	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 backup power.	New	High	2017-2021	Hubbard County, Akeley, Laporte, Nevis, Park Rapids and School Districts #306, #308, #309	HC Emergency Management, City Admin & Public Works	Hubbard County, local city governments, and schools will evaluate feasibility to purchase and install generators for key facilities. The county and cities will consider the availability of MN DNR generators that may be deployed if needed during power outages before making generator purchases.	County/City Budgets Possible FEMA HMA 5% Initiative Funding for Generators
16	Severe Winter & Summer Storms	Structure and Infrastructure Projects	Work with MN Power, Beltrami Electric Coop, and Itasca-Mantrap to identify and address mitigation measures for above ground power lines that are susceptible to damage from severe storms in order to reduce potential power outages.	New	High	2017-2021	Hubbard County, Akeley, Laporte, Nevis, Park Rapids	MN Power, Beltrami Electric Coop, and Itasca-Mantrap in cooperation with local cities	Hubbard County and local jurisdictions will be a planning partner to MN Power, Beltrami Electric, and Itasca-Mantrap for potential projects. MN Power has identified a need to conduct power pole & lines inspection and replacements in Park Rapids, Nevis, and Akeley. Beltrami Electric Coop has identified a need to convert overhead lines to underground that serve the City of Laporte (Laporte School, water & sewer, fire department, and other businesses).	Electric Coop Funding, Possible FEMA HMA funding for Infrastructure Retrofit
17	Severe Winter & Summer Storms	Education & Awareness Programs	Work with local utility companies to educate citizens on the importance of keeping trees and branches clear of power lines.	Ongoing	High	2017-2021	Hubbard County, Akeley, Laporte, Nevis, Park Rapids	MN Power, Beltrami Electric Coop, and Itasca-Mantrap in cooperation with local cities	This is an ongoing effort of the utility companies and city public works departments as they seek to protect local power lines from failure from falling trees during storms.	City/Electric Coop funding

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18	Severe Winter & Summer Storms	Mitigation Preparedness & Response Support	Work with utility companies, St. Joseph Hospital, and private businesses to promote the high priority service list for people who rely on life saving medical devices in the event of a major power outage.	Ongoing	High	2017-2021	Hubbard County	HC Public Health in cooperation with MN Power, Beltrami Electric Coop, and Itasca-Mantrap	Hubbard Co. Public Health is tasked with maintaining this listing.	County Budget
19	Severe Summer Storms	Mitigation Preparedness and Response Support	Identify areas where warning sirens are needed or require upgrade throughout Hubbard County for severe wind storms and Civil Defense warning. Ensure sirens can be remotely activated by Hubbard County.	New	High	2017-2021	Hubbard County, City of Laporte	HC Emergency Management in cooperation with the City of Laporte	Additional audible alarms are installed throughout Hubbard Co. to increase warning capacity when purchasing funds are available. All new installations are controlled by the Hubbard Co. Sheriff's Office Dispatch Center. HC Emergency Management will work with the City of Laporte to evaluate and upgrade the city's warning siren. The current siren is outdated is not tied to the county system.	County/City Budgets Possible FEMA HMA 5% Initiative
20	Severe Summer Storms	Mitigation Preparedness & Response Support / Education & Awareness Programs	Test warning sirens throughout the County on a regular basis and educate local residents, schools, and businesses on what to do when they are activated for high winds or tornado.	Ongoing	High	2017-2021	Hubbard County, City of Laporte	HC Emergency Management, and City of Laporte	Hubbard County conducts remote testing of all warning sirens on the 1 st Wednesday of each month, except for the siren in the City of Laporte, which is not currently tied to the County system. Each year HC Emergency Management works to engage local schools and businesses to participate in the Tornado Drill during Severe Weather Awareness Week.	County Budget

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21	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.	Ongoing	High	2017-2021	Hubbard County, Akeley, Laporte, Nevis, Park Rapids	HC Emergency Management in collaboration with local cities and NWS	Hubbard County Emergency Management coordinates with the National Weather Service to provide SkyWarn training every 2 years. (Annual training is not provided due to low participation). Handouts & information is available from the EM office upon request at any time of year.	County Budget and NWS funding to deliver program
22	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.	Ongoing	High	2017-2021	Hubbard County, Akeley, Laporte, Nevis, Park Rapids, All Townships and School Districts #306, #308, #309	HC Emergency Management, HC Public Health, in coordination with townships and local cities	Hubbard County Emergency Management will work with the cities, townships, and school districts to identify areas of concern and assess potential for construction or retrofit of community safe rooms. HC Emergency Management will work any school or jurisdiction seeking to develop a grant application to FEMA for a safe room project.	County/City budgets
23	Severe Summer Storms	Structure and Infrastructure Projects	Implement construction or retrofit projects for safe rooms or storm shelters in identified vulnerable locations.	Ongoing	High	2017-2021	Hubbard County, Akeley, Laporte, Nevis, Park Rapids, All Townships and School Districts #306, #308, #309	HC Emergency Management, HC Public Health, in coordination with townships and local cities	Any community safe room projects that the County is involved in will be part of the Hubbard County Emergency Management program. HC Emergency Management will work with any school or jurisdiction seeking to develop an application to FEMA for a safe room project.	County/City budgets Possible FEMA HMA funding for Safe Room Construction

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24	Extreme Temps (Heat / Cold)	Education & Awareness Programs	Educate the public on the dangers of extreme heat or extreme cold and how to take personal safety measures during periods of extreme temperatures.	Ongoing	High	2017-2021	Hubbard County ISD #306 (Laporte) ISD#308 (Nevis) ISD #309 Park Rapids	HC Emergency Management, HC Public Health and School District Staff	Hubbard County Emergency Management regularly posts information on the FB page on public safety measures during periods of extreme heat and cold. Hubbard County Public Health also works to reach out to vulnerable populations, such as the elderly. Schools regularly provide education to students on measures to take to avoid heat stroke, hypothermia, or frostbite during extreme summer/winter weather.	County Budget
25	Flooding	Local Planning & Regulations	Identify, map, and prioritize roads, bridges, and culverts in the County that are impacted by flood events, and prioritize required mitigation measures to reduce future flood damages.	Ongoing	High	2017-2021	Hubbard County Akeley, Laporte, Nevis, Park Rapids, and All Townships	HC Highway Dept, HC Public Works, HC GIS, HC SWCD, and local city and township public works	This is part of the Hubbard County Road Plan. Hubbard County Highway Dept. maintains an annual inventory of prioritized improvement projects for culverts, roads, and bridges throughout the county. Cities and townships also each work to identify and prioritize transportation improvement projects to address areas that suffer from flood damages. Hubbard County Highway Department provides engineering & construction to Townships for all roads projects.	County, and Township Budgets

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26	Flooding	Structure and Infrastructure Projects	Review the MN DNR Fisheries culvert inventory for the county and prioritize where improvements are needed to handle high water flow (such as modification of culverts or creation of retention areas).	New	High	2017-2021	Hubbard County and All Townships	HC Highway, HC Public Works, HC GIS, HC SWCD, in collaboration with MN DNR Fisheries, local city and township public works	Hubbard County SWCD notes that the MN DNR Fisheries has done a culvert inventory for the whole county and that it is available for the County to use. Hubbard County will coordinate with the MN DNR to obtain this information and apply it in their prioritization of improvement projects. Hubbard County Highway Department notes that over the last 5 plus years we have been working on and mitigating problem areas throughout the County which rate the culverts (as good or needs replacing). It has helped us to work on the worst and most important culverts throughout the county.	County/City budgets
27	Flooding	Structure and Infrastructure Projects	Implement prioritized flood mitigation measures for roads, bridges, culverts, and drainage systems.	New	High	2017-2021	Hubbard County, Akeley, Laporte, Nevis, Park Rapids and All Townships	HC Highway, HC Public Works, HC GIS, HC SWCD, and local city and township public works	Hubbard County notes that CSAH 49 Graceson Ave. S, has a storm drain that will need to be looked at and repaired. The City of Akeley will need help to mitigate this problem area before the street falls in. Costs to repair this may be some were in the \$30,000-\$50,000 bracket.	County/City Budgets Possible FEMA HMA funding for Localized Flood Reduction Projects

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28	Flooding	Local Planning & Regulations	Work with FEMA to update the County's digital floodplain insurance rate maps (DFIRM).	New	High	2017-2021	Hubbard County	HC Assessor, HC Envr. Services, MN DNR Floodplain Management Program, and FEMA	Hubbard County notes that the floodplain maps for Hubbard County need to be updated. Current maps are aged and more accurate maps are needed to reflect current flood elevation information. According to the MN DNR 2016 Estimated FEMA Map Modernization Status listing, Hubbard County is not scheduled for updated DFIRM modeling or mapping. Hubbard County will continue to work with cities to enforce current ordinances until new maps are completed.	MNDNR for future Floodplain Mapping
29	Flooding	Structure and Infrastructure Projects	Work with Henrietta Township to replace culvert on 209 th Avenue in Hellkamp Creek due to potential failure and low efficiency ratings by MN DNR waters.	New	High	2017-2021	Hubbard County Henrietta Township and Nevis Township	HC Highway Dept and Henrietta and Nevis townships	Culvert on 209 th Ave. at Hellkamp Creek needs the 18in culvert replaced with a 30-36 inch.	County/Twp Budgets Possible FEMA HMA funding for Localized Flood Reduction Projects

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30	Flooding	Structure and Infrastructure Projects	Structurally improve and redesign roads, streets, culverts and bridges countywide to reduce and eliminate overland flooding and road washouts.	Ongoing	High	2017-2021	Hubbard County	HC Highway Dept. and HC Public Works in coordination with MnDOT	Hubbard Co. Highway Department and Public Works maintain an annual Road Plan, and work with MnDOT where needed for projects that involve state managed roads. Construction projects are posted for each year on the HC Highway Department webpage. Outside funding will be sought where projects may be eligible, such as from FHWA for mitigation activities regarding highways that include flashfloods, erosion, and more.	County Highway budget, other outside possible funding such as FHWA mitigation grants and FEMA HMA Funding for Localized Flood Reduction Projects.
31	Flooding	Structure and Infrastructure Projects	Identify locations of storm water mains throughout the county and assess the need to construct and replace existing storm water mains to handle high water rain events.	Ongoing	High	2017-2021	Hubbard County City of Akeley	HC Highway Dept., HC Public Works, HC GIS, HC SWCD and City of Akeley public works dept.	Throughout the County, this action is completed by Hubbard Co. Highway Department, Public Works & MN DOT. More will be completed as fund sources & bonding occur, and the problem areas are scheduled to be completed on the Hubbard Co. Road Plan.	County Budget, possible MPCA/PFA funding. Possible FEMA HMA Funding for Localized Flood Reduction Projects.

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32	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	Hubbard County, Akeley, Laporte, Nevis, Park Rapids	HC Highway Dept., HC Public Works, HC GIS, HC SWCD and local city public works depts., MNDNR, MPCA	In the identification of projects, the County will evaluate what projects may be eligible to apply for the MPCA's annual Clean Water Project Priority List (PPL). Projects must be on the PPL to be eligible to apply for low interest CWRP loans and other state grants and loans from the Minnesota Public Facilities Authority (PFA). PFA financing is for investments in municipal infrastructure, which result in improvements in water quality. Funding is not available for privately owned infrastructure.	County/ SWCD budgets. Possible MPCA/PFA grant funding
33	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	Hubbard County, Akeley, Laporte, Nevis, Park Rapids	HC Highway Dept., HC Public Works, HC GIS, HC SWCD and local city public works depts., MNDNR, MPCA	Same as above. The County will seek outside grant funding where possible to fund eligible stormwater improvement projects, such as through MPCA and FEMA HMA funding for flood reduction projects.	County/ SWCD budgets. Possible MPCA/PFA grant funding. Possible FEMA HMA funding for Localized Flood Reduction Projects

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34	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	Hubbard County, Akeley, Laporte, Nevis, Park Rapids and All Townships	HC Public Works, HC SWCD, MN Dept of Health and local city and township public works depts.	Hubbard County SWCD is working 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. Cities work directly with the Minnesota Department of Health on the development or update of wellhead protection plans to ensure they meet State requirements. The SWCD is a partner that sits in on the meetings with MDH and cities and can offer suggestions.	MDH Source Water Protection grant funding for wellhead improvement projects
35	Wildfire	Local Planning & Regulations	Work with the MN DNR to develop a Community Wildfire Protection Plan (CWPP) for high-risk wildfire areas of Hubbard County.	Ongoing	High	2017-2018	Hubbard County	HC Emergency Management, HC Natural Resource Mgmt, HC Envr. Services, MN DNR Forestry, and local fire departments	Development of a CWPP will be explored and implemented as feasible with cooperation of Hubbard Co. Forestry & MN DNR Forestry Firewise Coordinator. Local fire departments will be engaged in the planning process. Local sponsorship by a local fire department will be necessary to obtain MNDNR Firewise funding to develop a CWPP.	Possible MN DNR Firewise Grant funding (50:50 cost share grant)

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36	Wildfire	Natural Systems Protection	Work with MN DNR to conduct Level-I wildfire risk assessments in areas with significant wildfire potential in the county, specifically around communities at risk (Akeley, Park Rapids, and Nevis).	Ongoing	High	2017-2021	Hubbard County	HC Emergency Management, HC Envr. Services, MN DNR Forestry, and local fire departments	This project effort will be incorporated into the Firewise program for Hubbard County in cooperation with the MN DNR Forestry Firewise Coordinator.	Possible MN DNR Firewise Grant funding (50:50 cost share grant)
37	Wildfire	Education & Awareness Programs	Promote defensible space education and provide training for property owners that have properties at-risk for wildfire.	Ongoing	High	2017-2021	Hubbard County	HC Emergency Management, HC Natural Resource Mgmt. and MN DNR in collaboration with local fire departments	This project effort will be incorporated into the Firewise program for Hubbard County. It is especially important to encourage local elected officials to help promote the value of Firewise practices to local homeowners so that the MN DNR can more easily work with them.	Possible MN DNR Firewise Grant funding (50:50 cost share grant)
38	Wildfire	Education & Awareness Programs	Coordinate with MN DNR on providing wildfire education and awareness to the public promote wildfire risk reducing activities.	Ongoing	High	2017-2021	Hubbard County	HC Emergency Management, HC Natural Resource Mgmt, and MN DNR Forestry	Hubbard County Emergency Management will work in partnership with MN DNR to develop and disseminate key messages for wildfire safety. HC Emergency Management will use its Facebook Page, traditional media, and public events to provide outreach to the public during high-risk periods for wildfire.	Possible MN DNR Firewise Grant funding (50:50 cost share grant)

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39	Wildfire	Natural Systems Protection	Identify areas in the county where water resources are limited to support wildfire suppression. Evaluate if there are key water resources (lakes/rivers) that may support installation of a dry hydrant or where an underground water tank may be possible.	New	High	2017-2021	Hubbard County	HC Emergency Management in coordination with local fire chiefs and MN DNR Forestry	Hubbard County Emergency Management will work in coordination with local fire departments to review water access for fire suppression in rural areas. Where projects may be feasible we will seek to work in coordination with the MNDNR for dry hydrant or underground water storage tank projects.	Possible MN DNR Firewise Grant funding (50:50 cost share grant)
40	Wildfire	Natural Systems Protection	Work with Henrietta Township on constructing an access point on the northern most end of Deer Dr. on the east side of Long Lake that is large enough to fit a fire truck for pumping water from the lake.	New	High	2017-2021	Hubbard County Henrietta Twp.	HC Emergency Management, HC and HC Envr. Services in coordination with local fire department.	Hubbard County Emergency Management will work with local township officials and the local fire department to assess, plan for, and implement this project.	County Budget, Possible FEMA HMA Funding for Wildfire Mitigation
41	Landslides & Soil Erosion	Natural Systems Protection / Structure and Infrastructure Projects	Provide engineering support to Hubbard County townships to help identify and address design corrections to rural road issues due to erosion from rain events and flooding.	New	High	2017-2021	Hubbard County Township Governments, and Hubbard County Soil and Water Conservation District	HC SWCD, HC Natural Resource Mgmt, local Township governments	With heavier rain events many township roads do not have the correct drainage, have undersized or nonfunctioning culverts and are seeing more township road problems with erosion that generally goes into our lakes and wetland. HC SWCD works to address erosion issues throughout the County and will continue to provide engineering support to the townships.	County Highway Dept. Budget, SWCD Funding, MN Clean Water Fund

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42	Landslides & Soil Erosion	Natural Systems Protection	Work with community partners to identify and implement conservation practices to prevent or control soil erosion and sedimentation of waterways.	New	High	2017-2021	Hubbard County	Hubbard County SWCD	Every year the HC Soil and Water Conservation District offers technical assistance to private property owners and community partners as well as a Cost-Share Program to implement mitigation projects that support water quality and soil erosion measures. Some projects funded by the Cost-Share Program include Critical Area Stabilization, Diversions, Field Windbreaks, Grassed Waterway, Sediment Basins, Streambank, Shoreland, and Roadside Protection and Forestry Conservation Practices.	Hubbard County SWCD Cost-Share Program and Possible FEMA HMA Funding for Soil Stabilization projects
43	Landslides & Soil Erosion	Education & Awareness Programs	Work to increase public education and awareness of soil erosion and conservation issues and actions that can be taken.	New	High	2017-2021	Hubbard County	Hubbard County SWCD	Hubbard County SWCD provides several different programs for public education and awareness, including the annual Envirothon for junior and high school students, Freshwater Festival held at Camp Wilderness Boy Scout Camp and more. The SWCD maintains a website with educational resources.	HC SWCD Program funding

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44	Landslides & Soil Erosion	Natural Systems Protection	Work with Hubbard County SWCD, Henrietta Township and Thorpe Township to address high-priority erosion and sediment issues occurring as a result of storm events and which negatively impact local lakes.	New	High	2017-2021	Hubbard County SWCD, Henrietta Township Thorpe Township	Hubbard County SWCD in coordination with Henrietta and Thorpe townships	The Hubbard County SWCD has identified their top #1 and #2 erosion mitigation projects are located in Henrietta and Thorpe townships. Henrietta Twp has some major overland flooding, erosion and sediment issues on Deer View Rd. that goes directly into Long Lake. Long Lake has been identified in the Crow Wing River WRAP by the MPCA and the Hubbard County Local Water Management Plan as a lake that is very sensitive to phosphorous loading and is showing some declining water quality trends. In Thorpe Twp., Junco Road also has erosion, sediment and runoff issues into Big Mantrap Lake. Problems have been occurring in 1 – 1½ inch storm events for both sites.	HC SWCD Program funding
45	Drought	Natural Systems Protection	Monitor rainfall and wells throughout Hubbard County to track precipitation and water levels.	New	High	2017-2021	Hubbard County	Hubbard County SWCD in partnership with local volunteers; MN DNR	Hubbard County SWCD has a rural rainfall monitoring network that was begun in 1978. Each month volunteers record rainfall and snowfall daily and submit their reports to the SWCD who sends the compiled data to the SWCD.	HC SWCD Program funding

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46	Drought	Education & Awareness Programs	Educate the public on water conservation measures and fire safety awareness during periods of drought.	New	Moderate	2017-2021	Hubbard County	HC Emergency Management, HC SWCD, and MN DNR Forestry	This is a standing part of messaging to the public by HC Emergency Management, SWCD, and MN DNR Forestry during dry periods that affect Hubbard County.	HC SWCD Program funding