

THEME	EMMET COUNTY 2025 NATURAL HAZARD MITIGATION STRATEGIES	PRIORITY (High, Med, or Low)	WHERE - Affected Locations or Groups	WHO - Responsible Parties (Lead entities are in Bold font)	WHEN - Timeframe	NATURAL HAZARD TYPE													STRATEGY TYPE						
						Severe Winter Weather	T-Storm, High Winds, Hail, Tornado, Lightning	Wildfire	Inland Flooding and Erosion	Coastal Hazards: Flooding, Erosion, Currents, Seiche, Waterspout	Extreme Temperatures	Drought	Dense Fog	Invasive Species	Space Weather & EMPs	Public Health Emergency	1. Local Planning, Programs & Regulations	2. Building & Infrastructure Projects	3. Natural Systems Protection	4. Education & Awareness Efforts					
Awareness and Preparation	1	Incorporate the County Hazard Mitigation Plan's strategies into elements of county and local government planning documents.	Low	Countywide	County Planning Commission and local jurisdictions	Ongoing	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	2	Continue to pursue cooperation and coordination of police, fire, rescue and EMS services to maintain community-wide service coverage.		Countywide			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	
	2a	Maintain the relationship between the MDNR Forest Resources Division and the Local Fire Chief's organization; collaborate to utilize fire towers, fire spotters and aerial support (including unmanned aerial devices and cameras on towers) for wildfire prevention and response.	High	Countywide	Local Fire Chiefs; County EM; MDNR;	Ongoing			X					X		X					X		X		
	2b	Continue to encourage and implement mutual and automatic aid agreements to ensure adequate firefighter capacity.	Medium	Countywide	Local Fire Depts., County EM, local government officials	Ongoing			X					X		X					X		X		
	2c	Continue to maintain existing agreements between local fire depts. and landowners (and municipal water suppliers where applicable) for secondary water sources in a drought.	Medium	Countywide	Emmet Conservation District, USDA-NRCS, MSUE, Local Fire Chiefs, Local Officials	Ongoing			X					X							X		X		
	3	Support the identified needs of local first responder organizations to effectively conduct their jobs.		Countywide			X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	3a	Pursue funding and programs available for training, recruitment and retainment of first responder professionals.	Medium	Countywide	Local Fire Departments, County EM, local governments	Ongoing	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	3b	Pursue funding sources for necessary first responder equipment upgrades, such as vehicles (larger water tanker trucks, or trucks with taller ladders to accommodate new taller buildings), technical equipment and PPE.	High	Countywide	Local Fire Departments, County EM, local governments	Ongoing	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
	3c	Seek grant funding for training and equipment for a regional Wildfire Task Force.	Medium	County and Region	Emmet, Cheboygan, and Charlevoix County Emergency Management Coordinators; MDNR; Fire Depts.	5 Years			X					X							X		X		
	3d	Develop additional fire stations where needed, considering insurance premium savings to property owners located in proximity to a fire station.	Medium	Countywide	Local governments, fire departments	As needed			X												X	X	X		
3e	Create a spatial database of available water supply locations for both structure fires and wildfire response utilizing GIS/CAD mapping technology.	High	Countywide	Local Fire Departments; County EM; LTBOI Tribe	5 Years			X					X							X		X			

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3f	Maintain and improve access to water supply sources for firefighting capabilities (i.e., install water supply lines and hydrants; ensure clear access for drafting from lakes, streams, etc.)	High	Countywide	Local Fire Departments; County Building Inspector; EM Coordinator, LTBBOI Tribe	Ongoing/ As Needed	X		X											X	X	X		
3g	Create pre-incident fire response plans for areas that do not have a nearby water supply.	High	Countywide	Local Fire Departments; MDNR; County EM	5 Years			X							X				X				X
3h	Identify and pre-plan transportation routes for emergency access to rural areas.	Medium	All townships	Local Fire Depts. & EMS, County EM, local government officials	Ongoing	X	X	X	X	X	X	X			X	X	X		X				X
3i	Continue to secure funding for road improvements in order to assist with reduced emergency response transportation times.	Medium	Countywide	County Road Commission; County Planning, Local Fire Depts.; EMS	Ongoing	X	X	X	X	X		X			X	X	X		X	X			
3j	Per the <i>Livable Petoskey Master Plan (2021)</i> , work with the Health Department of Northwest Michigan, Community Mental Health, Emmet County and McLaren Northern Michigan to identify funding for a credentialed mental health professional to assist first responders as needed.	Medium	City of Petoskey	City of Petoskey	2-5 years	X	X	X	X	X	X	X			X	X	X		X				X
4	Continue to develop Emergency Action Plans as needed for large public events.	Medium	Countywide	County EM	Ongoing	X	X	X	X	X	X	X			X	X	X		X				
5	Recommend that local governments that have a Special Events Ordinance include emergency preparedness plans for the events.	High	Countywide (note that the communities of Petoskey, Harbor Springs, Mackinaw City and West Traverse Township have related policies/ordinances in place)	County EM; local governments	5 years	X	X	X	X	X	X	X			X	X	X		X				X

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6	Maintain evacuation plans/routes and areas of refuge for campgrounds and communicate this information to patrons. Ensure routes are accessible to people of all levels of ability.	Medium	City of Petoskey; Village of Alanson; Townships of Bear Creek, Bliss, Little Traverse, Littlefield, Readmond, Resort, Springvale, Wawatam	County EM; campground managers	Ongoing		X	X	X		X						X				X		
7	Inform the public about emergency-related information, such as warnings/watches, incident locations and shelter sites via utilization and promotion of the BeAlert mass notification systems, NOAA Weather Radio, and online and local news media.	High	Countywide	County EM	Ongoing	X	X	X	X	X	X	X				X	X					X	
7a	Continue to increase participation in the BeAlert mass electronic notification system.	Medium	Countywide	County EM	Ongoing	X	X	X	X	X	X	X				X	X					X	
7b	Continue to expand public awareness that in the event of a large storm with a possible power outage, it may be several days before emergency workers could get to them. This may include being prepared with alternative sources of heat and supplies that will last up to 72 hours following an event.	Medium	Countywide	County EM	Ongoing	X	X		X													X	
7c	Continue to provide community education and school programs that encourage the development of a Site Emergency Plan for public buildings, a Family Disaster Plan for private households, and the preparation of a Disaster Supplies Kit.	Medium	Countywide	County EM	Ongoing	X	X	X	X							X	X					X	
7d	Publicize designated shelter sites, including temporary warming and cooling centers, targeting vulnerable populations such as elderly citizens.	Medium	Countywide	County EM; Emmet County Council on Aging	Ongoing	X	X	X	X	X	X	X				X	X					X	
8	Create signage in public parks & beaches that illustrate the nearest emergency shelter.	Low	Countywide	Emmet County Parks & Recreation; MDNR; Local governments	5 years		X				X											X	
9	Provide information on fire safety and prevention to the public through website/social media postings and/or BeAlert system messaging		Countywide		Ongoing			X			X						X		X			X	
9a	Continue to post the current MDNR Fire Danger Status via BeAlert messaging and social media.	Medium	Countywide	CCE Central Dispatch Authority, local fire departments, MDNR	Ongoing			X			X											X	
9b	Refer people to the MDNR's burn permit website to determine if a permit is needed or if there are restrictions in effect.	Medium	Countywide	Local and County Governments; Local Fire Depts.; CCE Central Dispatch Authority	Ongoing			X			X						X					X	

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9c	Provide public education on personal fire safety and fire prevention measures, such as: vegetation/fuel management around homes and structures; fireplace and chimney care; provision of free smoke alarms; disposal of yard and organic waste through recycling and composting; and responsible recreational fire practices.	Medium	Countywide	CCE Central Dispatch Authority, local fire departments, MDNR	Ongoing			X													X	X
9d	Provide information on fire safety prevention to guests at campgrounds, such as during guest check-in and posting fire danger level signs.	Low	City of Petoskey; Village of Alanson; Townships of Bear Creek, Bliss, Little Traverse, Littlefield, Readmond, Resort, Springvale, Wawatam	MDNR, County Parks and Rec Dept., Private campground operators, local fire depts.	Ongoing			X														X
10	Continue the preparedness practice of conducting the annual statewide tornado drill.	Medium	Countywide	County EM	Annual; ongoing		X														X	X
11	Continue to promote participation in the NWS SKYWARN Storm Spotter program.	Low	Countywide	County EM	Annual; ongoing		X			X				X								X
12	Continue Emmet County Council on Aging's practice of maintaining a list of home-bound residents that receive "reassurance calls" during emergencies/power outages.	Medium	Countywide	Emmet County Council on Aging	Ongoing	X	X	X	X	X	X	X		X	X							X
13	Encourage elderly residents to call if help is needed. Such as their heat is out, they need help with snow removal, out of food, etc.	Low	Countywide	Emmet County Council on Aging	Ongoing	X	X	X	X	X	X	X		X	X							X
14	Consider providing a reduced cost snow removal program for elderly, low-income residents, similar to the Senior Residential Snow Removal Program provided by the Charlevoix County Commission on Aging.	Low	Countywide	Emmet County Council on Aging; Emmet County Board of Commissioners	5 years																X	X
15	Ensure that County residents, particularly vulnerable populations, have access to healthy, affordable food options.		Countywide			X	X						X	X	X	X	X	X	X	X	X	X
15a	Continue to provide and promote the Friendship Centers of Emmet County's home meal delivery and senior center meal programs (COA has contingency plans in place for meal services during severe weather and public health emergencies).	Medium	Senior Centers in Petoskey and Brutus; home-delivered meals available to home-bound residents age 60+	Friendship Centers of Emmet County (Emmet County Council on Aging)	Ongoing	X	X								X					X	X	X
15b	Continue to operate the existing Community Garden in Petoskey and add additional community gardens in shared open spaces and/or school locations to promote learning about growing local food, native pollinating plants, and provide access to fresh produce.	Low	Countywide	Farming for our Future, Inc.; local governments and schools	Ongoing								X	X	X	X	X	X	X	X	X	X

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15c	Continue to provide and improve food assistance programs and emergency food programs to help communities prepare for unanticipated emergencies, but also increase regular food accessibility.	Low	Countywide	Food rescue organizations; NMCAA; COA; school districts (school meal programs)	Ongoing															X	X					X
16	Continue programs and services offered by the Health Dept. of Northwest Michigan that support disease prevention such as immunization services and E. coli monitoring at public beaches.	Medium	Countywide	HDNM, County EM	Ongoing															X	X					X
17	Provide information at public beaches regarding dangerous current warnings and/or swim advisories pertaining to water quality conditions (E.coli monitoring).	Low	Lakefront communities	Local jurisdictions, MDNR, County EM	Ongoing				X	X									X	X					X	
18	Continue to rely on the MDHHS for guidance via the State Pandemic Plan and information about new or emerging disease threats.	Low	Countywide	HDNM, County Medical Care Facility, Assisted Living Facilities, McLaren Hospital, County EM	Ongoing														X	X					X	
19	Maintain proper levels of PPE for healthcare workers and first responders, with additional supplies for long-term care facilities.	Medium	Countywide	HDNM; first responders; assisted living facilities/ nursing homes; McLaren Hospital	Ongoing														X	X						
20	Continue regular trimming of vegetation, including removal of diseased or dead trees, along road and utility right-of-ways to minimize the risk of power outages, road blockages from storm damage, and wildfire.	High	Countywide	County Road Commission (utilizes a contractor), Cities, Villages, MDOT, Utility Companies	Ongoing	X	X	X					X								X			X		
21	Continue sharing the road maintenance schedules/plans of the County Road Commission and MDOT with communities	Low	Countywide	Emmet County Road Commission, MDOT	Ongoing	X								X							X				X	
22	Within Emmet County's Materials Management Plan (currently under development), include a Debris Management Plan for large amounts of debris generated from disasters, such as trees and building materials. Include options for proper disposal, recycling, or re-use of these materials.	Medium	Countywide	Emmet County DPW; Emmet County Materials Management Committee, County EM	2027	X	X	X	X	X											X					

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Built Environment	23	Continue enforcement of regulations pertaining to construction activities in the County (building codes, stormwater management ordinance, soil erosion/sedimentation control, Critical Dune permits, High Risk Erosion Area permits, etc.)	Medium	Countywide; Critical Dunes are in the Townships of Bear Creek, Bliss, Cross Village, Little Traverse, and Wawatam	Emmet County Planning, Zoning & Construction Resources (PZCR); Bear Creek Twp.; City of Petoskey; EGLE	Ongoing	X	X	X	X	X	X					X	X	X	X			
	24	Continue to provide education about building/permitting requirements and best practices to developers, realtors, land owners, business owners, architects and engineers (i.e., meetings with the Emmet Association of Realtors; Emmet County Building Department's annual "Coffee with the Inspectors" meeting; and emailing out information.) Particular importance is placed on continued public education of building and permitting requirements in communities with Lake Michigan shoreline, regarding setbacks, lot sizes, driveways, relocation of structures, etc.	High	Countywide	Emmet County Building Department, Emmet County Planning and Zoning Department	Ongoing	X	X	X	X	X	X					X	X	X	X			
	25	Require new developments to seek fire department review of site proposals to ensure adequate access for emergency vehicles.	Low	Countywide	Emmet County Planning and Zoning Department; local planning commissions; Emmet County Building Department	5 years	X	X	X	X	X	X					X	X					
	26	Require new or renovated commercial buildings to provide exterior signage containing emergency response instructions and/or contact information.	Low	Countywide	Emmet County Planning and Zoning Department; local planning commissions; Emmet County Building Department	5 years	X	X	X	X	X	X						X			X		
	27	Prepare a county-wide map of floodplain areas to assist with site plan reviews.	Low	Countywide	Emmet County Planning and Zoning Department; EGLE	5 years				X	X							X		X	X		
	28	Encourage communities to revisit and revise their zoning ordinances as appropriate to reflect any local regulations for construction within or near a floodplain that has a drainage area less than 2 square miles. (Any construction, fill or alteration of a floodplain of a river, stream, or drain which has a drainage area greater than or equal to 2 square miles will require a state floodplain permit under Part 31 of the Natural Resources and Environmental Protection Act.)	Low	Countywide	Emmet County Building Department; Emmet County Planning and Zoning Department; local planning commissions	5 years				X								X		X	X		

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29	Encourage new mobile and pre-manufactured home subdivisions to provide a storm shelter; for existing developments, encourage them identify nearby storm shelter locations and share this information with their residents. Encourage local governments to consider updating their zoning ordinances accordingly.	Low	Countywide	Local and County Planning Commissions; County Building Dept., County EM	5 years	X	X											X	X		X	
30	Continue to promote the availability of low-cost residential weatherization and home improvement programs.	Low	Countywide	NMCAA, Utility Providers, Habitat for Humanity	Ongoing													X	X		X	
31	Consider allocating county funds to develop a reduced-cost program to install heating or cooling systems in the homes of low-income residents that are vulnerable to extreme temperatures.	Low	Countywide	Emmet County Board of Commissioners; Council on Aging, LTBBOI, County EM	5 - 10 years			X			X				X		X	X				
32	Continue to pursue opportunities for brownfield and blight clean-up activities, including demolition and clearance of vacant, condemned structures, to remove actual and potential sources of land, water and air contamination, and reduce incidents of arson.	Medium	Countywide	Emmet County Brownfield Redevelopment Authority; Emmet County Land Bank Authority; Local Governments	Ongoing			X							X		X	X	X			
33	Continue assessment of flood threat with ongoing inspections of dams/locks.	Medium	Crooked River Lock in Alanson; various dams throughout the County (all dams are rated with a "Low" downstream hazard potential except for the Windward Dam, rated as "Significant")	USACE inspects the Crooked River Lock; Emmet County for the Wycamp Dam; Great Lakes Fishery Commission for the Carp Lake River Barrier; MDNR; private dam owners	Ongoing; as required by regulatory authority, if applicable				X								X					
34	Complete drainage improvements/mitigation projects for flood/erosion prone locations in the County's infrastructure. (i.e., upgrading storm sewers, or replacing undersized/failing catch basins, culverts, bridges or dams. Consider innovative stormwater management solutions; property acquisition; structure demolition, elevation, relocation or retrofitting; dry flood proofing; or project scoping.	High																				
34a	Storm sewers are inadequate and cause repetitive flooding along U.S. 31 in the Bay View area and along parts of M-119 in Bear Creek Township. Seek grant funding to enlarge the Tannery Creek culvert under US-31 and former Chase Bank drive location.	High	Bear Creek Township	MDOT, Bear Creek Township, TOMWC, property owners in the project area	5-10 years				X										X	X		

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34b	Continue to pursue fundraising efforts to reconstruct the failed portion of the Little Traverse Wheelway so that it is more resilient to bluff erosion and fluctuating Lake Michigan water levels.	Medium	City of Petoskey	Top of Michigan Trails Council, City of Petoskey, Emmet County, MDOT, Little Traverse Bay Bands of Odawa Indians	5 years						X																X	X				
34c	Complete the of Harbor Springs' "North FEMA Project" - floodplain mitigation work in the Shay Drain floodplain at Fairview Street.	Medium	City of Harbor Springs	City of Harbor Springs, property owners	2027				X																			X	X			
34d	Complete Bayfront Park Shoreline stabilization improvements due to damage from high lake water level and Bayfront West Livable Shoreline Installation to convert revetment and shoreline to a natural livable design to help with high water erosion issues.	Medium	City of Petoskey	City of Petoskey	2025-2030						X																	X	X			
34e	Implement the chosen alternative from the 2020 engineering study for the Lake Street Dam improvements.	Medium	City of Petoskey	City of Petoskey	2029				X																			X	X			
34f	Consider installing storm sewers in Cross Village at the commercial district and at the Catholic church due to repetitive flooding during heavy rain events along N. Lake Shore Drive (M-119).	Medium	Cross Village Township	MDOT, Cross Village Township, Emmet County Road Commission	5-10 years				X																			X	X			
34g	Seek funding to address the M-119 stormwater runoff/bluff erosion damage at the Sequoia Yacht Club neighborhood in Good Hart; utilize nature-based stormwater management solutions	Medium	Readmond Township	TOMWC, property owners, MDOT, Readmond Township Emmet County Road Commission	5 years				X																				X	X		
35	Identify, improve, and/or construct shelter capacity.	Medium																									X	X				
35a	Maintain an inventory of current and potential emergency shelter sites and their capabilities; review annually and update as needed.	Medium	Countywide	County EM; American Red Cross	Ongoing; annually	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
35b	Pursue funding sources to enhance capabilities of shelters, such as installing generators, kitchens, bathrooms, and designing spaces to be barrier-free compliant and pet-friendly.	Medium	Countywide	County EM	5-10 years	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X		
35c	Provide and publicize designated heating and cooling centers, targeting vulnerable populations.	Medium	Countywide	County EM; Senior Centers	Ongoing	X						X																X		X		
36	Maintain best practices for adequate quarantine areas in group living quarters, such as shelters, hospitals and assisted living facilities.	Medium	Countywide	HDNW, McLaren Hospital, COA, Red Cross, Salvation Army	Ongoing																							X	X			

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Utilities & Technology	37	Complete testing of emergency responder two-way radio design in school buildings (already in place at Pellston Airport).	High	Local Schools	Emmet County OEM	1 Year	X	X		X				X	X	X	X	X	X				
	38	Evaluate options to improve electrical service reliability at the Emmet County Regional Airport. The airport occasionally experiences resurges/resets of power, more often in the summer/busy travel months or during severe weather events.	Medium	Pellston Airport	Pellston Regional Airport Committee, Consumers Energy, GLE Electric, Emmet County	5 Years	X	X						X			X			X			
	39	Consider installing a backup power system for the Emmet County Regional Airport's fuel farm.	Medium	Pellston Airport	Pellston Regional Airport Committee; Emmet County	1-5 years	X	X						X			X			X			
	40	Continue to maintain effective communications practices between electric utility companies regarding power restoration. (Share electrical outage utility maps on County/CCE-911 social media.)	Medium	Countywide	County EM, Great Lakes Energy, Consumers Energy, Petoskey, Harbor Springs	Ongoing	X	X	X	X	X	X				X			X				X
	41	Place electric and communication utility lines underground, such as during new construction, new utility connection work, or in areas regularly prone to power outages.	Medium	Countywide	Local governments with zoning; property owners; utility companies	Ongoing	X	X	X					X	X				X	X			
	42	Continue to pass and enforce local ordinances that require new developments to install utilities underground. (ECPZ already requires utilities to be placed underground in Planned Unit Developments.)	Low	Countywide	Local governments; ECPZ	Ongoing	X	X	X					X	X				X	X			
	43	Encourage local governments to create and enforce ordinances that prohibit plantings under and around power lines.	Low	Countywide	ECPZ, utility companies, local governments	5 Years	X	X	X					X					X				
	44	Promote the use of renewable energy systems for homes, businesses and governmental facilities	Low	Countywide	County/Local Governments, utility companies	10 Years	X	X						X					X	X			X
	45	Continue to maintain community sewer and water infrastructure operations to ensure the availability of clean potable water and collection and treatment of sanitary sewer.	Medium	City of Petoskey, City of Harbor Springs, Bear Creek Township, Littlefield Township, Little Traverse	City of Petoskey; Harbor Springs Area Sewage Disposal Authority; Village of Mackinaw City	Ongoing				X	X							X	X	X	X		
	45	Identify the locations of where backup generators may be needed for wastewater pump chambers or water storage towers to service issues in the event of a power outage, and apply for funding.				1-5 years		X		X										X	X	X	
46	Maintain Continuity of Operations plans and alternative remote work schedules.	Low	County, Local & Tribal Government Agencies; Schools	County EM (via the County Emergency Operations Plan); Local & Tribal Government Agencies; Schools	Ongoing	X	X		X					X			X						

THEME	EMMET COUNTY 2025 NATURAL HAZARD MITIGATION STRATEGIES	PRIORITY (High, Med, or Low)	WHERE - Affected Locations or Groups	WHO - Responsible Parties (Lead entities are in Bold font)	WHEN - Timeframe	NATURAL HAZARD TYPE														STRATEGY TYPE			
						Severe Winter Weather	T-Storm, High Winds, Hail, Tornado, Lightning	Wildfire	Inland Flooding and Erosion	Coastal Hazards: Flooding, Erosion, Currents, Seiche, Waterspout	Extreme Temperatures	Drought	Dense Fog	Invasive Species	Space Weather & EMPs	Public Health Emergency	1. Local Planning, Programs & Regulations	2. Building & Infrastructure Projects	3. Natural Systems Protection	4. Education & Awareness Efforts			
47	Continue collaboration amongst local governments and utility providers to increase the availability of broadband and cellular service.	Medium	Rural areas of the county outside of cities and villages	Emmet County BOC ; local governments; service providers; Connected Nation MI	Ongoing		X	X	X		X	X	X	X		X	X						
48	Acquire Critical Infrastructure and Key Resources (CIKR) data to create a searchable database for Emmet County's LEPC and EOC operations.	High	Countywide	County EM , Emmet County LEPC, Fire Chiefs	5 Years	X	X	X	X	X	X	X		X	X	X			X				
49	Continue to add CIKR location data to the MSP's EMHSD's GIS mapping software.	Medium	Countywide	Emmet County EM	Ongoing	X	X	X	X	X	X	X		X	X	X			X				
50	Contact utility and transportation organizations to understand what procedures and systems they have in place to minimize service disruptions from space weather and EMP events. Refer them to FEMA's Best Practices on EMP mitigation.	Medium	Countywide	Emmet County OEM , Airports, Ferries, MDOT, Communications & Energy Service Providers	1-2 years									X		X			X				
51	Ensure that Emmet County's operating procedures include back-up systems allowing complex systems (e.g. air traffic control) to continue to function when key technological systems (e.g. GPS, radio communications, satellites) malfunction. For example, some "legacy" systems might be retained as a back-up, new GPS signals and codes could be used to remove ranging errors, and protective and back-up components could be installed in vulnerable systems.	High	Emmet County Government Facilities and Operations	Emmet County's IT Department	Ongoing		X								X	X	X						
52	Continue Emmet County government's consistent use of computer data back-up systems with secure offsite storage as appropriate.	High					X									X	X	X					
53	Continue to ensure there are uninterruptible battery supplies (UBS) and/or generators for County-owned critical infrastructure systems (as required by applicable national standards).	High					X									X	X	X					

THEME	EMMET COUNTY 2025 NATURAL HAZARD MITIGATION STRATEGIES					NATURAL HAZARD TYPE												STRATEGY TYPE			
	PRIORITY (High, Med, or Low)	WHERE - Affected Locations or Groups	WHO - Responsible Parties (Lead entities are in Bold font)	WHEN - Timeframe	Severe Winter Weather	T-Storm, High Winds, Hail, Tornado, Lightning	Wildfire	Inland Flooding and Erosion	Coastal Hazards: Flooding, Erosion, Currents, Seiche, Waterspout	Extreme Temperatures	Drought	Dense Fog	Invasive Species	Space Weather & EMPs	Public Health Emergency	1. Local Planning, Programs & Regulations	2. Building & Infrastructure Projects	3. Natural Systems Protection	4. Education & Awareness Efforts		
Natural Resources	54	Continue the monitoring, treatment and removal efforts for aquatic invasive species (AIS) and terrestrial invasive species (TIS)	Medium	Countywide	CAKE-CISMA, county and local governments, TOMWC, lake	Ongoing							X					X			
	55	Continue to provide public education/outreach regarding aquatic and terrestrial invasive species management.	Medium	Countywide	CAKE-CISMA, county and local governments, TOMWC, lake	Ongoing		X	X	X	X		X					X	X		
	55a	Continue participating in EGLE's annual Great Lakes AIS "Landing Blitz" event at public boat launches, emphasizing the need to Clean, Drain, Dry boats whenever they come out of the water, and Dispose of unwanted bait in the trash.	Low	Paradise Lake in Carp Lake Township	Paradise Lake Association, EGLE	1 - 5 Years							X			X		X	X		
	55b	Continue TOMWC's Mobile Boat Washing Station (MOBO) Program, where volunteers use high-pressure, heated water to wash invasive plants and animals off boats and trailers. Visits are made to various Northern MI lake landings and wash boats for free throughout the summer.	Medium	Countywide	Tip of the Mitt Watershed Council	Ongoing							X			X		X	X		
	56	Promote EGLE's "NotMISpecies" webinars and resources on invasives control and management best practices	Low	Countywide	CAKE-CISMA, TOMWC, ECD, lake and stream management organizations, local governments, LTBBOI	1 - 5 years			X		X		X					X	X		
	57	Investigate alternative, effective and lower-cost invasive species control measures.	Low	Countywide	CAKE-CISMA, LTBBOI, MSU Extension	1 - 10 years							X					X	X		
	58	Consider updating zoning ordinances to mitigate shoreline erosion and improve water quality, such as prohibiting armoring or requiring native vegetation in a greenbelt along a waterfront to prevent erosion.	Medium	City of Petoskey, Little Traverse Township, Village of Mackinaw City, Village of Alanson	City of Petoskey, Little Traverse Township, Village of Mackinaw City, Village of Alanson	1 - 5 years			X	X			X			X		X	X		
	58a	Per the Walloon Lake Association & Conservancy's 2023-2027 Strategic Plan, Goal #4: Coordinate with agencies of the five townships, two counties and other concerned stakeholders on government policy to protect the lake and watershed. This requires forming an intergovernmental body to unify these communities with common ordinances.	Medium	Resort and Bear Creek Townships within Emmet County; Townships of Melrose, Evangeline, and Bay in Charlevoix County	Walloon Lake Association & Conservancy (WLAC); local governments	1 - 5 Years			X	X			X	X	X	X		X	X		
	58b	Per the <i>Livable Petoskey Master Plan (2021)</i> , increase required waterfront setbacks and require a vegetative buffer to be added land-side of a hardened shoreline.	Medium	City of Petoskey	City of Petoskey	2 - 5 Years				X						X		X			
	59	Consider installing permanent boat wash stations at lake access points and boot cleaning stations at trail access points.	Low	Countywide	MDNR, Local and County Government recreation providers	1 - 5 years							X					X	X		

THEME	EMMET COUNTY 2025 NATURAL HAZARD MITIGATION STRATEGIES	PRIORITY (High, Med, or Low)	WHERE - Affected Locations or Groups	WHO - Responsible Parties (Lead entities are in Bold font)	WHEN - Timeframe	NATURAL HAZARD TYPE														STRATEGY TYPE			
						Severe Winter Weather	T-Storm, High Winds, Hail, Tornado, Lightning	Wildfire	Inland Flooding and Erosion	Coastal Hazards: Flooding, Erosion, Currents, Seiche, Waterspout	Extreme Temperatures	Drought	Dense Fog	Invasive Species	Space Weather & EMPs	Public Health Emergency	1. Local Planning, Programs & Regulations	2. Building & Infrastructure Projects	3. Natural Systems Protection	4. Education & Awareness Efforts			
60	Continue to identify and prioritize sites for open space protection/preservation and green infrastructure, especially in areas prone to flooding or erosion.	Medium	Countywide	Little Traverse Conservancy; WLAC; County/Local governments; TOMWC	Ongoing				X	X	X				X			X					
61	Incorporate green infrastructure-related goals and objectives in the county and local community plans.	Medium	Countywide	Emmet County Planning Commission; remaining jurisdictions with own planning/zoning	Ongoing				X	X					X	X	X	X					
62	Continue to provide information to educate and inform lakeshore residents about what they can do to help protect their property value and the health of the lake on which they live by protecting, stabilizing and beautifying their shorelines with nature-based solutions.	Medium		TOMWC, Emmet County PZCR, Local Governments, Emmet Conservation District, Lake Associations	1 - 5 years				X	X								X	X				
63	Continue efforts to clean up river and lake debris.	Low	Countywide	River & Lake Associations; TOMWC, LTC	Ongoing				X	X								X	X				
64	Continue to regularly clean out culverts (due to sediment deposits, beaver activity, invasive species, etc.) to improve aquatic habitat quality and reduce chances for localized flooding.	Medium	Countywide	Roadway owners/operators: Road Commission; MDOT; Cities; Villages	Ongoing	X			X	X								X	X				

	Emmet County 2025 Technological and Human-Related Hazard Mitigation Strategies	WHERE - Affected Locations or Groups	WHO - Responsible Parties (Lead entities are in Bold font)	Hazardous Materials: Fixed Site Incident																	
				Hazardous Materials: Transportation Incident and Gas Accidents (well and pipeline)					Structure Fires			Major Transportation Incidents (air, highway, marine)			Energy Failures and Shortages (electric, natural gas, petroleum)						
				Technological Hazards - Industrial					Technological Hazards - Infrastructure			Human-Related Hazards									
1	Acquire Critical Infrastructure and Key Resources (CIKR) data to create a searchable database for Emmet County's LEPC and EOC operations; regularly update data in the MSP's EMHSD's GIS mapping software.	Countywide	County EM , Emmet County LEPC, Fire Chiefs	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
2	Continue coordination and communication with the US EPA regarding issuance of their regular 5-Year Reviews (next is due March 2025) summarizing the groundwater monitoring and cleanup progress at the PMC Superfund Site.	Water Street and Bayfront Park, Petoskey	City of Petoskey, Affected Property Owners	X																	
3	Continue coordination and communication with EGLE regarding their site investigation work to evaluate remedial options for PFAS contamination in groundwater.	Village of Pellston	Village of Pellston, Emmet County, McKinley and Maple River Townships	X																	
4	Apply for future rounds of airport investigation grant funding as it becomes available to assist with PFAS contamination evaluation and mitigation.	Pellston Airport	Emmet County	X																	
5	Secure state and/or federal funding to design and implement a municipal water system for the Village of Pellston to serve areas with PFAS groundwater contamination.	Village of Pellston	Village of Pellston	X																	
6	Continue to administer hazardous materials reporting requirements for SARA Title III facilities.	Countywide and Statewide	EGLE, Emmet County LEPC, US Coast Guard, US EPA	X	X	X	X	X	X	X			X								
7	Continue to provide methods for safe disposal of household hazardous waste and pharmaceuticals. Emmet County DPW offers two household hazardous waste collection days per year. Prescription and Over-the-Counter Drug Drop-Off Program offers annual community collection events and permanent collection drop boxes at law enforcement agencies.	Countywide	Emmet County DPW and Emmet County Sheriff's Office	X																	
8	Encourage and educate residents who have buried underground fuel storage tanks to have them removed and/or pumped out and filled.	Most likely at farms or rural commercial businesses (such as auto repair facilities)	Michigan Agriculture Environmental Assurance Program (MAEAP) , EGLE, Emmet County Brownfield Redevelopment Authority	X																	
9	Continue to pursue brownfield redevelopment projects and blight ordinance enforcement, including demolition and clearance of vacant, condemned structures, to remove actual and potential sources of land, water and air contamination, and reduce incidents of arson.	Countywide; (Communities with codified ordinances and/or zoning ordinances related to nuisances, health & sanitation, and/or blight elimination include: the cities of Harbor Springs and Petoskey; the villages of Mackinaw City, Alanson and Pellston; and the townships of Bear Creek, Littlefield, Little Traverse, Springvale, and West Traverse Township)	Emmet County Brownfield Redevelopment Authority; Local Governments	X				X	X												
10	Continue the elimination of clandestine methamphetamine laboratories through law enforcement and public education.	Countywide	County Sheriff's Office	X				X													

	Emmet County 2025 Technological and Human-Related Hazard Mitigation Strategies	WHERE - Affected Locations or Groups	WHO - Responsible Parties (Lead entities are in Bold font)	Technological Hazards - Industrial		Technological Hazards - Infrastructure			Human-Related Hazards						
				Hazardous Materials: Fixed Site Incident	Hazardous Materials: Transportation Incident	Oil and Gas Accidents (well and pipeline)	Structure Fires	Scrap Tire Fires	Major Transportation Incidents (air, highway, marine)	Energy Failures and Shortages (electric, natural gas, petroleum)	Built Infrastructure Failures (water, sewer, trails, roads, bridges, dams, communications)	Public Health Emergencies (contagions, food and water contamination)	Cyberattacks and Major Network Disruptions	Terrorism and Similar Incidents	Civil Disturbance
11	Continue to pursue cooperation and coordination of police, fire, rescue and EMS services to maintain community-wide service coverage.	Countywide	Local Fire Depts. , County EM, local government officials	X	X	X	X	X	X	X	X	X	X	X	X
12	Continue to encourage and implement mutual and automatic aid agreements to ensure adequate firefighter capacity.	Countywide	Local Fire Depts. , County EM, local government officials	X	X	X	X	X	X	X			X	X	
13	Develop additional fire stations where needed, considering insurance premium savings to property owners located in proximity to a fire station.	Countywide	Local governments, fire departments				X								
14	Create a spatial database of available water supply locations for both structure fires and wildfire response utilizing GIS/CAD mapping technology.	Countywide	Local Fire Departments; County EM; LTBBOI Tribe				X	X							
15	Maintain and improve access to water supply sources for firefighting capabilities (i.e., install water supply lines and hydrants; ensure clear access for drafting from lakes, streams, etc.)	Countywide	Local Fire Departments; County Building Inspector; EM Coordinator, LTBBOI Tribe				X	X							
16	Create pre-incident fire response plans for areas that do not have a nearby water supply.	Countywide	Local Fire Departments; MDNR; County EM				X	X							
17	Per the Livable Petoskey Master Plan (2021), work with the Health Department of Northwest Michigan, Community Mental Health, Emmet County and McLaren Northern Michigan to identify funding for a credentialed mental health professional to assist first responders as needed.	City of Petoskey	City of Petoskey	X	X	X	X	X	X	X	X	X	X	X	X
18	Promote the importance of maintaining a "defensible space" around structures in fire-prone wildland areas that lead up to structures.	All townships	Local Fire Departments; EM Coordinator				X								
19	Encourage local governments to implement ordinances regarding chemical storage and spill protection for areas where storage and use of hazardous materials is taking place, including but not limited to the storage of old motor vehicles.	Countywide	Emmet County Planning and Zoning Department; local planning commissions; Tip of the Mitt Watershed Council	X								X			
20	Encourage community zoning codes to require proper separation and buffering between industrial areas and other land uses. (I.e., locating schools, nursing homes, and similar facilities away from major hazardous materials routes and industrial facilities.	Countywide	Emmet County Planning and Zoning Department; local planning commissions	X	X	X									
21	During site plan review, encourage the inclusion of buffer strips to segregate wells, storage tanks, and other production facilities from transportation routes and adjacent land uses, in accordance with regulations and consistent with the level of risk.	Countywide	Emmet County Planning and Zoning Department; local planning commissions		X	X						X			
22	Transportation planning processes should consider how the design of roadways and other infrastructure can maximize emergency access and response times. Continue to secure funding for road improvements.	Countywide	County Road Commission, MDOT, local governments	X	X	X	X	X	X	X	X	X	X	X	X

	Emmet County 2025 Technological and Human-Related Hazard Mitigation Strategies	WHERE - Affected Locations or Groups	WHO - Responsible Parties (Lead entities are in Bold font)	Technological Hazards - Industrial					Technological Hazards - Infrastructure			Human-Related Hazards				
				Hazardous Materials: Fixed Site Incident	Hazardous Materials: Transportation Incident	Oil and Gas Accidents (well and pipeline)	Structure Fires	Scrap Tire Fires	Major Transportation Incidents (air, highway, marine)	Energy Failures and Shortages (electric, natural gas, petroleum)	Built Infrastructure Failures (water, sewer, trails, roads, bridges, dams, communications)	Public Health Emergencies (contagions, food and water contamination)	Cyberattacks and Major Network Disruptions	Terrorism and Similar Critical Incidents	Civil Disturbance	Nuclear
23	Identify and pre-plan transportation routes for emergency access to rural areas.	All townships	Local Fire Depts. & EMS, County EM, local government officials	X	X	X	X	X	X	X	X	X	X	X	X	X
24	Continue to implement improved design, routing, and traffic control at problem roadway areas. Incorporate ITS (intelligent transportation systems) technology where appropriate.	US-31, US-131, M-119, 75	MDOT		X				X							
25	Continue regular inspections and maintenance at the active railway/roadway grade crossings; ensure that signs/signals are operative and effective.	Tuscola and Saginaw Bay Railway in the City of Petoskey and Bear Creek Township	MDOT, County Road Commission, City of Petoskey, Bear Creek Township		X				X							
26	Continued proactive planning, design, maintenance, and enhancements for designated truck routes.	Countywide	MDOT, Cities and Villages, County Road Commission		X				X							
27	Strive to create energy portfolios that are based on a diverse mix of generation sources (e.g., natural gas, solar, wind, nuclear).	Countywide	City of Petoskey, City of Harbor Springs, Consumers Energy, Great Lakes Energy							X						
28	Promote the use of renewable energy systems for homes, businesses and governmental facilities	Countywide	County/Local Governments, utility companies							X						
29	Continue the proper maintenance of power lines, vegetative maintenance in power line corridors, and efficient response to damaged power lines.	Countywide	County Road Commission (utilizes a contractor), Cities, Villages, MDOT, Utility Companies							X						
30	Encourage local governments to create and enforce ordinances that prohibit plantings under and around power lines.	Countywide	ECPZ, utility companies, local governments							X						
31	Increase public awareness and widespread use of the "MISS DIG" utility damage prevention service (811-482-7171).	Countywide	Local Building Departments (Emmet County, Bear Creek and Petoskey); CCE-911			X				X						
32	Evaluate options to improve electrical service reliability at the Emmet County Regional Airport. The airport occasionally experiences surges/resets of power, more often in the summer/busy travel months or during severe weather events.	Pellston Airport	Pellston Regional Airport Committee, Consumers Energy, GLE Electric, Emmet County						X	X						
33	Provide back-up energy supply systems for critical infrastructure.	Countywide	County and local governments							X		X	X	X		
34	Consider installing a backup power system for the Emmet County Regional Airport's fuel farm.	Pellston Airport	Pellston Regional Airport Committee; Emmet County							X		X	X	X	X	

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				Technological Hazards - Industrial			Technological Hazards - Infrastructure			Human-Related Hazards						
35	Identify the locations of where backup generators may be needed for wastewater pump chambers or water storage towers to service issues in the event of a power outage, and apply for funding.	City of Petoskey, City of Harbor Springs, Bear Creek Township, Littlefield Township, Little Traverse Township, the Village of Alanson, the Village of Mackinaw City	City of Petoskey; Harbor Springs Area Sewage Disposal Authority; Village of Mackinaw City							X	X	X	X	X		
36	Continue to maintain effective communications practices between electric utility companies regarding power restoration. (Share electrical outage utility maps on County/CCE-911 social media.)	Countywide	County EM , Great Lakes Energy, Consumers Energy, Petoskey, Harbor Springs							X			X	X		
37	Continue to pass and enforce local ordinances that require new developments to install utilities underground. (ECPZ already requires utilities to be placed underground in Planned Unit Developments.)	Countywide	Local governments; ECPZ						X	X						
38	Design new or retrofitted public buildings to accommodate emergency and security needs.	Countywide	Government and public agencies							X		X	X	X		
39	Encourage energy efficiency capabilities in architectural design, such as Leadership in Energy and Environmental Design (LEED) certified buildings.	Countywide								X						
40	Maintain enforcement of local codified ordinances pertaining to fire and safety (the International Fire Code has been locally adopted by the City of Petoskey, Bear Creek Township and Friendship Township).	Countywide	County Building Department; local governments	X			X	X				X				

PRIORITY LEVEL	RATIONALE
<p style="text-align: center;">HIGH</p>	<p>High priority strategies are considered critical to preserve life and property, and will have the largest benefit for the community. High priority strategies often address hazards that have a high probability of occurring, and can protect health, safety, property and critical infrastructure. Many of these strategies have an enforcement standard and/or financing mechanism in place; a high level of need and/or anticipated economic benefit; or a high probability of immediate benefit to public health or safety if the hazard event were to occur.</p>
<p style="text-align: center;">MEDIUM</p>	<p>Medium priority strategies address hazards that do not appear to have immediate benefits to public health or safety, and may have benefits to specific residents or visitors. Many of these strategies consist of ongoing practices, education or planning efforts. If the action item's responsibility pertained to a party that was not available for discussion, we defaulted to "Medium" to respect that they may have a different interpretation of the priority which could not be identified at the time this plan was written.</p>
<p style="text-align: center;">LOW</p>	<p>Low priority strategies are considered to be long-term mitigation efforts that will be worked on as resources (such as staff or financing) become available. Oftentimes the probability of an impactful hazard event occurring in the geographic area is low, but not impossible, so it should be considered. The impact of these strategies is generally not considered to be absolutely critical to preserving life or property at the current time. Regarding foreseeable short- or long-term health and safety benefits (which may change within 5 years), the word "consider" was used in the action item. The strategy's priority level may also change over time as new situations arise.</p>