

| #    | EXTREME WINTER WEATHER  | Strategy Type                |                                    |                            |                               | Affected Jurisdictions |
|------|---|------------------------------|------------------------------------|----------------------------|-------------------------------|------------------------|
|      |   | Local Planning & Regulations | Building & Infrastructure Projects | Natural Systems Protection | Education & Awareness Efforts |                        |
| 1    | Continue enforcement of building codes for new construction regarding snow load limits through the permitting process.  | X                            |                                    |                            |                               | Countywide             |
| 2    | Improve the ability of public buildings to shed or hold snow load.  | X                            |                                    |                            |                               | Countywide             |
| 3    | Continue to proactively inform the public about extreme weather events from the National Weather Service and from the County Office of Emergency Management via Code Red, NWS weather radios, and social media; continue to offer Storm Spotter training through EM/NWS.  |                              |                                    |                            | X                             | Countywide             |
| 4    | Continue to offer Wexford County Council on Aging's reduced cost snow plow program, meal delivery service, and their "telephone reassurance" call service to check on rural area, homebound seniors during extreme weather events (not just once a week).   |                              |                                    |                            | X                             | Countywide             |
| 5    | Continue work amongst the utility companies and the Wexford County Road Commission to clear vegetation (particularly diseased or dead trees, i.e., from Emerald Ash Borer infestations) along various road and utility right-of-ways to minimize power outages and road blockages during heavy ice/snow storms. | X                            |                                    |                            |                               | Countywide             |
| 6    | Investigate opportunities for joint scenario planning/training with the power utility companies and Wexford County Central Dispatch to help restore power more effectively.   | X                            |                                    |                            | X                             | Countywide             |
| 7    | Investigate opportunities to bury overhead utilities underground to minimize power outages during storms.   | X                            | X                                  |                            |                               | Countywide             |
| 8    | Continue and strengthen partnerships with local government agencies and non-profits to provide education on individual emergency preparedness.  |                              |                                    |                            | X                             | Countywide             |
| 9    | Ensure that communities have a good snow removal plan and share this with the County Road Commission and County E.M.  | X                            |                                    |                            | X                             | Countywide             |
| 10   | Increase collaboration between the Wexford County Office of Emergency Management with municipalities and non-profits to ensure that adequate emergency shelters are available for the protection of and recovery from severe winter weather events.   | X                            | X                                  |                            | X                             | Countywide             |
| 10a. | Install a generator(s) to enable the facility's use as an emergency shelter.  |                              | X                                  |                            |                               | Selma Twp. buildings   |
| 11   | Evaluate additional designated sites to utilize to temporarily store cleanup debris from downed trees after storm events.   | X                            |                                    |                            | X                             | Countywide             |
| 12   | Improve communication amongst County Dispatch, Road Commission, law enforcement and EMS about road closures during storms as quickly as possible to improve emergency response arrival time.  | X                            |                                    |                            | X                             | Countywide             |

| #   | T-STORM, HIGH WINDS, HAIL, TORNADO, LIGHTNING  | Strategy Type                |                                     |                            |                               | Affected Jurisdictions   |
|-----|--|------------------------------|-------------------------------------|----------------------------|-------------------------------|--|
|     |  | Local Planning & Regulations | Building & Infra-structure Projects | Natural Systems Protection | Education & Awareness Efforts |  |
| 1   | Establish additional community storm shelters, especially at campgrounds and near mobile/modular home communities. Communicate to the public where shelters are during/in preparation for a severe weather event.  | X                            | X                                   |                            | X                             | See Appx. _ for a map indicating locations of campgrounds and modular home/mobile home developments. |
| 1a. | Install a generator(s) to enable the facility's use as an emergency shelter.   |                              | X                                   |                            |                               | Selma Twp. Buildings   |
| 2   | Continue building code enforcement for new construction by following State of MI Building Code and applicable local zoning ordinances.   | X                            |                                     |                            |                               | Countywide   |
| 3   | Promote structural modifications (such as foundation anchoring and tie downs) for mobile/modular homes and proper tree management to reduce damage to structures from high winds.  | X                            |                                     |                            | X                             | See Appx. _ for a map indicating locations of modular home/mobile home developments.                 |
| 4   | Continue work amongst the utility companies and the Wexford County Road Commission to clear vegetation (particularly diseased or dead trees, i.e., from Emerald Ash Borer infestations) along various road and utility right-of-ways to minimize power outages and road blockages during storms. | X                            |                                     |                            |                               | Countywide   |
| 5   | Work with utility companies to increase the (width?) of utility right-of-ways  | X                            |                                     |                            |                               | Countywide   |
| 6   | Promote the burning of overhead utilities during new construction, as well as in areas with high rates of power outages, to minimize power outages during storms.  | X                            | X                                   |                            |                               | Countywide   |
| 7   | Investigate opportunities for joint scenario planning/training with the power utility companies and Wexford County Central Dispatch to help restore power more effectively.  | X                            |                                     |                            | X                             | Countywide   |
| 8   | Improve communication amongst County Dispatch, Road Commission, law enforcement and EMS about road closures during storms as quickly as possible to improve emergency response arrival time.   | X                            |                                     |                            | X                             | Countywide   |
| 9   | Evaluate additional designated sites to utilize to temporarily store cleanup debris from downed trees after storm events.  | X                            |                                     |                            | X                             | Countywide   |
| 10  | Continue to proactively inform the public about extreme weather events from the National Weather Service and from the County Office of Emergency Management via Code Red, NWS weather radios, and social media; continue to offer <i>Storm Spotter</i> training through EM/NWS.                  | X                            |                                     |                            | X                             | Countywide   |
| 11  | Continue to offer Wexford County Council on Aging's meal delivery service, and their "telephone reassurance" call service to check on rural area, homebound seniors during extreme weather events (not just once a week).  | X                            |                                     |                            | X                             | Countywide   |
| 12  | Continue and strengthen partnerships with local government agencies and non-profits to provide education on individual emergency preparedness. Continue the preparedness practice of conducting statewide tornado drills.  | X                            |                                     |                            | X                             | Countywide   |

| # | WILDFIRE  | Strategy Type                |                                    |                            |                               | Affected Jurisdictions  |
|---|---|------------------------------|------------------------------------|----------------------------|-------------------------------|---|
|   |   | Local Planning & Regulations | Building & Infrastructure Projects | Natural Systems Protection | Education & Awareness Efforts |   |
| 1 | Identify communities with the county that have an interest in becoming a recognized Firewise USA® community. Each applicant must create a board/committee, complete a community wildfire risk assessment with three-year action plan to reduce ignition risk to homes, and complete annual educational and risk reduction actions identified in the plan. Collaborate with NFS and/or MDNR. | X                            |                                    |                            | X                             | Consider areas with Jack Pine forest (every community except City of Manton and Villages of Mesick and Buckley) particularly where it is near developed areas, tree farms, and campgrounds. |
| 2 | Work with campgrounds (Private, MDNR and NFS) to develop a notification system regarding fire danger; create areas of refuge involving imminent fire danger at campgrounds, and establish evacuation routes from campgrounds.   | X                            |                                    |                            | X                             | City of Cadillac, City of Manton, Cedar Creek Twp., Clam Lake Twp., Cherry Grove Twp., Greenwood Twp., Haring Twp., Liberty Twp., South Branch Twp., Springville Twp.                       |
| 3 | Regularly update update the County's basic Wildfire Operations Plan (coordinate with MDNR/USFS)   |                              |                                    |                            |                               | Countywide  |
| 4 | Consider revising building and zoning requirements to include wildland fire risk mitigation practices (i.e., a 25 foot cleared space/defensible space between houses and other structures.)   | X                            | X                                  |                            |                               | Countywide  |
| 5 | Continue to conduct wildfire management such as prescribed burns and surface fuels management projects on open space/public land (this also encourages regeneration of native plant species).   | X                            |                                    | X                          |                               | Countywide  |
| 6 | Continue to pursue acquisition of appropriate fire suppression equipment for response.  |                              | X                                  |                            |                               | Countywide  |
| 7 | Continue to the utilize Code RED mass notification system to alert the public of wildfire.  |                              |                                    |                            | X                             | Countywide  |

| FLOODING AND EROSION |  | Strategy Type                |                                    |                            |                       | Affected Jurisdictions  |
|----------------------|--|------------------------------|------------------------------------|----------------------------|-----------------------|---|
|                      |  | Local Planning & Regulations | Building & Infrastructure Projects | Natural Systems Protection | Education & Awareness |   |
| 1                    | Provide outreach to all communities in the County that contain floodplain areas to participate in FEMA's Flood Insurance Program, and the benefits of doing so. (The NFIP provides flood insurance to property owners, renters and businesses, and having this coverage helps them recover faster when floodwaters recede. The NFIP also works with communities required to adopt and enforce floodplain management regulations that help mitigate flooding effects. There is no cost for communities to participate.) | X                            |                                    |                            | X                     | Communities in the Muskegon River watershed (Lake Mitchell/Lake Cadillac/Clam River) and Manistee watershed (and the Pine River watershed?) |
| 2                    | Identify flood-prone areas on future FIRMs and pursue FEMA hazard mitigation assistance grants related to flood mitigation, such as property acquisition, structure demolition or relocation, dry flood proofing, or structure elevation.  |                              | X                                  |                            | X                     |   |
| 3                    | Promote flood-proofing of structures and flood damage reduction techniques   | X                            | X                                  |                            | X                     |   |
| 4                    | Continue wetland protection and preservation through land preservation, education and stewardship efforts provided by local non-profits such as the Wexford Conservation District, Cadillac Area Land Conservancy, and the North Country Cooperative Invasive Species Management Area.   | X                            | X                                  | X                          | X                     | Countywide  |
| 5                    | Continue enforcement of building codes and soil erosion regulations with new construction  | X                            |                                    |                            |                       | Countywide  |
| 6                    | Continue to regularly clean up river debris and clean out plugged culverts (due to beaver activity, sediment deposits, invasive species, etc.) and/or upgrade to larger sized replacement culverts to better accommodate high volume streamflows.  |                              | X                                  | X                          |                       | Countywide  |
| 7                    | Improve the sanitary sewer infrastructure along the shoreline of Lake Mitchell (sanitary sewer overflow incidents after high rainfall events; concern of backflow into water supply).  |                              | X                                  | X                          |                       | Selma Twp., Charry Grove Twp., City of Cadillac   |
| 8                    | Install back-up generator system for the Clam River outlet control dam to ensure water levels on Lake Cadillac and Lake Mitchell remain at safe levels.  |                              | X                                  |                            |                       | City of Cadillac, Clam Lake Twp., Haring Twp., Cherry Grove Twp., Selma Twp.  |
| 9                    | Evaluate the installation of backup generators on larger sewer pump chambers to alleviate manual pumping/hauling in the event of a power outage.   |                              | X                                  |                            |                       | Selma Twp.  |
| 10                   | Install check valves on stormwater discharge locations   |                              | X                                  |                            |                       | City of Cadillac, City of Manton, others?   |
| 11                   | How to mitigate persistent flooding issue on property located on the northeast edge of Lake Cadillac (site of a former lumber mill). Part private property and part public property.   | X                            | X                                  |                            |                       | City of Cadillac  |

| #   | EXTREME TEMPERATURES   | Strategy Type                |                                    |                            |                               | Affected Jurisdictions |
|-----|--|------------------------------|------------------------------------|----------------------------|-------------------------------|------------------------|
|     |  | Local Planning & Regulations | Building & Infrastructure Projects | Natural Systems Protection | Education & Awareness Efforts |                        |
| 1   | Increase collaboration between the Wexford County Office of Emergency Management with local communities and non-profits to <b>increase the number of emergency shelters available to the public for heating/cooling during extreme temperature days and when power outages occur.</b>  | X                            | X                                  |                            | X                             | Countywide             |
| 1a. | <b>Install a generator(s) at ___ to enable the facility's use as an emergency shelter.</b>   |                              | X                                  |                            |                               |                        |
| 2   | <b>Continue to offer Wexford County Council on Aging's meal delivery service, and their "telephone reassurance" call service</b> to check on rural area, homebound seniors during extreme weather events (not just once a week).   | X                            |                                    |                            | X                             | Countywide             |
| 3   | Continue and strengthen partnerships with local government agencies and non-profits to <b>provide education and/or information on individual emergency preparedness for extreme temperature events.</b>  | X                            |                                    |                            | X                             | Countywide             |
| 4   | <b>Promote to use of residential weatherization and home improvement program(s)</b> offered through the organizations such as the Northwest MI Community Action Agency and MSHDA.  |                              | X                                  |                            | X                             | Countywide             |
| 4a. | <b>Applicable 501(c) non-profit agencies and government entities should pursue "MI HOPE" Grants (<i>Michigan Housing Opportunities Promoting Energy Efficiency</i>)</b> for up to \$25K to repair or replace roofs, doors, windows, insulation, heating/cooling systems, water heaters, security lighting, Energy Star appliances and electrical systems for eligible low-income residents. <a href="http://www.michigan.gov/mi-hope">www.michigan.gov/mi-hope</a> |                              | X                                  |                            | X                             | Countywide             |

| # | DROUGHT  | Strategy Type                |                                    |                            |                               | Affected Jurisdictions |
|---|--|------------------------------|------------------------------------|----------------------------|-------------------------------|------------------------|
|   |  | Local Planning & Regulations | Building & Infrastructure Projects | Natural Systems Protection | Education & Awareness Efforts |                        |
| 1 | <b>Develop a drought communication plan and early warning system</b> to facilitate timely communication of local drought conditions/outlook to officials, decision makers, emergency responders, and the general public. Utilize the National Weather Service's U.S. Drought Monitor <a href="https://www.cpc.ncep.noaa.gov/products/Drought/">https://www.cpc.ncep.noaa.gov/products/Drought/</a>     | X                            |                                    |                            | X                             | Countywide             |
| 2 | <b>Develop agreements for secondary water sources</b> that may be used during drought conditions.  | X                            |                                    |                            |                               | Countywide             |
| 3 | <b>Establish an irrigation time/scheduling program or process so that all agricultural land gets the required amount of water.</b> Through incremental timing, each area is irrigated at different times so that all water is not consumed at the same time. Spacing usage may also help with recharge of groundwater.   | X                            |                                    | X                          |                               | Countywide             |
| 4 | <b>Require mandatory water conservation measures during drought emergencies, including:</b><br><b>** Developing an ordinance to restrict the use of public water resources for non-essential usage,</b> such as landscaping, washing cars, filling swimming pools, etc.<br><b>** Adopting ordinances to prioritize or control water use,</b> particularly for emergency situations like fire fighting. | X                            |                                    |                            |                               | Countywide             |
| 5 | <b>Continue the Wexford Conservation District's provision of free technical assistance</b> (in partnership with the USDA-NRCS and MAEAP) such as resource assessment, practice design, resource monitoring, and determination of financial assistance for local farmers, ranchers and forest managers.   |                              |                                    |                            | X                             | Countywide             |

| #   | INVASIVE SPECIES   | Strategy Type                |                                    |                            |                               | Affected Jurisdictions                             |
|-----|--|------------------------------|------------------------------------|----------------------------|-------------------------------|--|
|     |  | Local Planning & Regulations | Building & Infrastructure Projects | Natural Systems Protection | Education & Awareness Efforts |  |
| 1   | <b>Utilize the assistance of and strengthen partnerships with</b> the Michigan Department of Agriculture and Rural Development (MDARD), MSU Extension (MSUE), MDNR, and the MI Dept. of Environment, Great Lakes and Energy (EGLE), USFS, Wexford Conservation District, the North Country Cooperative Invasive Species Program, and other local non-profits <b>regarding technical assistance, outreach and education about invasive species management in Wexford County. Of particular concern: Spongy moth, Emerald ash borer, Autumn olive, European milfoil (aquatic), Phragmites (aquatic), Japanese knotweed, Wild parsnip, and other pests/diseases that kill trees and increase wildfire risk.</b> |                              |                                    | X                          | X                             | Countywide   |
| 1a. | Utilize the Michigan Invasive Species Grant Program <a href="https://www.michigan.gov/invasives/grants/misgp">https://www.michigan.gov/invasives/grants/misgp</a> to submit proposals for projects that will: prevent the introduction or spread of invasive species by engaging the public in prevention practices and reducing the risk of moving invasive species into high-risk areas; or aid in early detection and response efforts for species on Michigan's Watch List; or increase regional or statewide response preparedness for new or emerging invasive species; or develop or improve tools, such as risk assessments and prioritization models, to inform management and control decisions.   |                              |                                    | X                          |                               | Countywide   |
| 1b. | Utilize MSUE's "Clean Boats, Clean Waters" comprehensive aquatic invasive species boater outreach program resources; apply for grant funding to communicate aquatic invasive species prevention information through outreach materials and in-person educational events to boaters. <a href="https://www.canr.msu.edu/clean_boats_clean_waters/index">https://www.canr.msu.edu/clean_boats_clean_waters/index</a>  |                              |                                    | X                          | X                             | Countywide   |
| 1c. | Utilize EGLE's "NotMISpecies" webinars and resources on invasives control and management ( <a href="https://www.michigan.gov/invasives/take-action">https://www.michigan.gov/invasives/take-action</a> ).  |                              |                                    |                            |                               | Countywide   |
| 1d. | Continue participation in the annual Great Lakes Aquatic Invasive Species "Landing Blitz" event, emphasizing the need to Clean, Drain, Dry boats whenever they come out of the water, and Dispose of any unwanted bait in the trash.   |                              |                                    |                            | X                             | ?  |
| 1e. | Continue operation of the boat washing facilities at _____   |                              |                                    | X                          | X                             | ?  |
| 1f. | Install boat-washing facilities at other water access sites; boot-cleaning facilities at trailheads and popular river-access sites; and other voluntary measures to reduce the spread of invasives by the public.  |                              | X                                  | X                          | X                             | ?  |
| 2   | <b>Continue to manage aquatic invasive species with treatment programs and public awareness of invasive species management, provided by local Lake Improvement Boards.</b>   |                              |                                    | X                          | X                             | Lake Mitchell Improvement Board - City of Cadillac |
| 3   | <b>Continue implementation of Forestry Management Plans that outline mitigation efforts for invasive species (?) (MDNR, USFS)</b>  | X                            |                                    | X                          |                               | Countywide   |
| 4   | <b>Consider adoption of local ordinances that regulate activities to prevent the introduction of or the contribution to the spread of invasive species, such as prohibiting the use of invasive species in landscaping and/or vegetative riparian buffers.</b>   | X                            |                                    |                            |                               | Countywide   |

| #   | PUBLIC HEALTH EMERGENCY  | Strategy Type                |                                     |                            |                               | Affected Jurisdictions   |
|-----|--|------------------------------|-------------------------------------|----------------------------|-------------------------------|--|
|     |  | Local Planning & Regulations | Building & Infra-structure Projects | Natural Systems Protection | Education & Awareness Efforts |  |
| 1   | Ensure that County residents, particularly vulnerable populations, have access to healthy, affordable food options.  |                              |                                     |                            |                               | Countywide   |
| 1a. | Community gardens for urban locations  | X                            | X                                   |                            |                               | Cities of Cadillac and Manton; Villages of Buckley, Mesick and Harrietta |
| 1b. | Continue to provide and improve food assistance programs and emergency food programs to help communities prepare for unanticipated pandemics, but also increase food accessibility.  |                              |                                     |                            | X                             | Countywide   |
| 1c. | Food rescue programs, involving public/private partnerships between restaurants, hotels and other venues of large food production, can partner with local food pantries to make good food more widely available.   |                              |                                     |                            | X                             | Countywide   |
| 2   | Continue to provide and improve senior services, such as meal delivery service and the Wexford Council on Aging's "telephone reassurance" call service to check on homebound seniors weekly.   |                              |                                     |                            | X                             | Countywide   |
| 3   | Maintain proper levels of PPE for healthcare workers and first responders, with additional supplies for long-term care facilities.   | X                            |                                     |                            | X                             | Countywide   |
| 4   | Maintain Continuity of Operations (COOP) plans and alternative "remote work" schedules.  |                              |                                     |                            | X                             | County Government and Local Government Agencies                          |
| 5   | Expand availability of high-speed internet service to allow for remote work/learning.  |                              | X                                   |                            |                               | Colfax Twp.  |
| 6   | Provide back-up generators for water and wastewater treatment facilities to maintain acceptable operating levels during power failures.  |                              | X                                   |                            |                               |  |
| 7   | Continue to maintain community water and sewer infrastructure at acceptable operating standards.   |                              | X                                   |                            |                               |  |
| 8   | Separate storm and sanitary sewer systems where applicable.  |                              | X                                   |                            |                               |  |
| 9   | Improve ventilation techniques in areas, facilities, or vehicles that are prone to crowding or that may involve exposure to contagion or noxious atmospheres.  |                              | X                                   |                            | X                             |  |
| 10  | Pursue opportunities for brownfield and blight clean-up activities, including demolition and clearance of vacant, condemned structures, to help prevent vermin infestation.  | X                            | X                                   |                            |                               | Countywide   |
| 11  | Continue programs and services offered by the District Health Dept. #10 and MDHHS, such as: immunizations; community clinics; school health services; permitting processes for proper location and installation of water wells and septic systems; education about cleaning, monitoring and maintaining septic systems; septic or well repair financial assistance, and the inspection and licensing of food service establishments. | X                            |                                     | X                          | X                             | Countywide   |
| 12  | Continue to coordinate with the MDHHS for guidance via their State Pandemic Plan and information about new or emerging disease threats.  | X                            |                                     |                            | X                             | Countywide   |
| 13  | Continue and strengthen partnerships with local government agencies and non-profits to provide education on individual preparedness for a public health emergency.   |                              |                                     |                            | X                             | Countywide   |
| 14  | Continue to pursue interdepartmental cooperation and coordination of police, fire, rescue and EMS services to achieve community-wide coverage availability.  | X                            |                                     |                            |                               | Countywide   |



|   | MISC.   | Strategy Type                |                                    |                            |                               | Affected Jurisdictions |
|---|---|------------------------------|------------------------------------|----------------------------|-------------------------------|------------------------|
| # |   | Local Planning & Regulations | Building & Infrastructure Projects | Natural Systems Protection | Education & Awareness Efforts |                        |
| 1 | Continue utilization of the <i>Code RED</i> mass notification system.   |                              |                                    |                            | X                             | Countywide             |
| 2 | Continue collaborating with other governmental entities, organizations, businesses and the public to advance natural hazard mitigation education and awareness. |                              |                                    |                            | X                             | Countywide             |
| 3 | Incorporate the County Natural Hazard Mitigation Plan's concepts, strategies and policies into elements of local community master plans.                        | X                            |                                    |                            |                               | Countywide             |