

## MEMO

**To:** Gladwin County Residents

**From:** Robert North, Gladwin County Emergency Management Director  
Bill Ernat, EMCOG Program Manager, Special Projects

**RE:** Residential Survey

**Date:** April 19, 2022

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Attached is a residential survey for Gladwin County residents to complete. We are seeking information regarding hazards that you have experienced since you have lived in your current residence in Gladwin County. Your information will be very helpful and will assist County volunteers and officials update the 2016 Gladwin County Hazard Mitigation Plan.

We thank you for taking time out of your schedule to assist us in this very important process.

If you have any questions on the survey itself or any questions on the survey, please do not hesitate to contact Bob North at [rnorth@gladwincounty-mi.gov](mailto:rnorth@gladwincounty-mi.gov) or Bill Ernat at [bernat@emcog.org](mailto:bernat@emcog.org).

## Gladwin County Hazard Mitigation Residential Survey

Welcome! Gladwin County is in the process of updating the 2016 Gladwin County Hazard Mitigation Plan as required by the Federal Emergency Management Agency (FEMA) to qualify for hazard mitigation funding. As part of this process, the Gladwin County Hazard Advisory Committee (Committee) would like your feedback and is seeking your assistance in identifying the concerns of Gladwin County residents as they relate to natural and man-made hazards. Please fill out the survey, as all the information will be useful in the update process. Thank you for taking the time to assist the Committee in this very important process. Please return to your local municipality city/township hall by May 5<sup>th</sup>.

1. Please identify the Municipality/Township in which you live. \_\_\_\_\_
2. Do you own your home? Yes \_\_\_\_\_ No \_\_\_\_\_  
Is this your primary residence? Yes \_\_\_\_\_ No \_\_\_\_\_
3. Do you have internet access at home? Yes \_\_\_\_\_ No \_\_\_\_\_  
If so, how do you access the internet? \_\_\_\_\_
4. Do you own a smart phone? Yes \_\_\_\_\_ No \_\_\_\_\_
5. How long have you lived at your current address? \_\_\_\_\_
6. **Please indicate below the greatest level of impact significant events for each hazard have had on you, your family, and/or your property since you have lived in your current address.** Please use the following levels:  
0-No Impact 1-Minor damages to the property 2-Significant property damages  
3-Significant property damages with injuries to the occupants

Event	No Impact	Impact but no Significant Damage	Significant Damage	Significant Damages with Injuries
Celestial Impact				
Civil Disturbances				
Cyberterrorism				
Dam Failures				
Drought				
Earthquakes				
Energy Emergencies				
Extreme Cold				
Extreme Heat				
Fog				
Gas/Oil Pipeline Incidents				
Gas/Oil Well Incidents				

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Event	No Impact	Impact but no Significant Damage	Significant Damage	Significant Damages with Injuries
Hail				
Hazardous Materials Fixed Site				
Hazardous Materials-Transportation				
Horse-Drawn Vehicles				
Ice/Sleet Storms				
Infrastructure Failures				
Invasive Species				
Lightning				
Loose Livestock				
Passenger Vehicle Traffic Accident				
Pluvial (flash) Flooding				
Public Health Emergencies				
Riverine Flooding				
Scrap Tire Fires				
Seasonal Population Changes				
Severe Winds				
Snowstorms				
Special Events				
Structural Fires				
Terrorism/Sabotage				
Thunderstorms				
Tornadoes				
Wildfires				

7. How are you currently notified when there is a disaster or emergency? (Check all that apply.)

Radio/Television \_\_\_\_\_

Outdoor warning siren \_\_\_\_\_

Mobile Alert \_\_\_\_\_

Landline \_\_\_\_\_

Public Service Announcement \_\_\_\_\_

Emergency Weather Radio \_\_\_\_\_

Other \_\_\_\_\_

Not Notified \_\_\_\_\_

Is this notification system effective? Why or why not?

\_\_\_\_\_.

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8 Do you currently have flood insurance?

Yes \_\_\_\_\_ No \_\_\_\_\_ Not Required \_\_\_\_\_

9. Have you taken measures to make your home/property more resilient to disasters?  
If Yes \_\_\_\_\_, what are they? No \_\_\_\_\_ Not Sure \_\_\_\_\_

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10. Does your family have a Family Disaster Kit? Yes \_\_\_\_\_ No \_\_\_\_\_

11. Do you or a member of your family have a special needs that would require assistance during a disaster? If so, what are those needs? Yes \_\_\_\_\_ No \_\_\_\_\_

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**HAZARDOUS EVENT DEFINITIONS**

**BLIZZARDS**-includes strong winds (Over 35 mph), drifting snow, low temperatures, and blowing snow that reduces visibility.

**CELESTIAL IMPACT**-An impact or threatened impact from a meteorite, asteroid, comet, satellite, space vehicle, space debris, or similar objects that may cause physical damages or other disruptions.

**CIVIL DISTURBANCES**-Collective behavior that results in a significant level of law-breaking, perceived threat to public order, or disruption of essential functions and quality of life.

**CYBERTERRORISM**-Unlawful attacks and threats of attack against computers, networks, and the information stored therein when done to intimidate or coerce a government or its people in furtherance of political, social, or financial objectives.

**DAM FAILURES**-The collapse or failure of an impoundment (water held back by a dam) resulting in downstream flooding.

**DROUGHT**-A water shortage caused unusual hydraulic conditions such as a deficiency of rainfall, and generally lasting for an extended period of time.

**EARTHQUAKES**-A shaking or trembling of the ground (or earth's crust) caused by tectonic activity or other seismic forces.

**ENERGY EMERGENCY**-An actual or potential shortage of gasoline, electrical power, natural gas, fuel oil, or propane-of sufficient magnitude and duration to potentially threaten public health and safety, and/or economic and social stability.

**EXTREME TEMPERATURES (COLD)**-Prolonged periods of very low temperatures often accompanied by exacerbating conditions such as heavy snowfall and high winds.

**EXTREME TEMPERATURES (HEAT)**-Prolonged periods of very high temperatures often accompanied by exacerbating conditions such as high humidity and lack of rain.

**FOG**-Condensed water vapor in cloudlike masses lying close to the ground and limiting visibility.

**HAIL**-Lumps of ice that form in weather systems such as thunderstorms and then fall to earth as solid precipitations.

**HAZARDOUS MATERIAL INCIDENTS/FIXED SITE AND PROPANE STORAGE SITES**-An uncontrolled release of hazardous materials from a fixed site, capable of posing a risk to health, safety, property, and the environment.

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**HAZARDOUS MATERIAL INCIDENTS/TRANSPORTATION**-An uncontrolled release of hazardous materials during transport, capable of posing a risk to health, safety, property or the environment.

**HORSE-DRAWN VEHICLES**-A vehicle powered by horses traveling on municipal roadways, without any hazard or lamp light.

**ICE/SLEET STORMS**-A storm that generates sufficient quantities of ice or sleet to result in hazardous conditions and/or property damage.

**INFRASTRUCTURE FAILURES**-A failure of critical public or private utility infrastructure resulting in a temporary loss of essential functions and/or services.

**INVASIVE SPECIES**-A species whose introduction to Michigan causes or is likely to cause economic or environmental harm, or harm to human health, to an extent that outweighs the species,' known benefits.

**LIGHTNING**-The discharge of electricity from within a thunderstorm.

**LOOSE LIVESTOCK**-Loose farm livestock roaming freely in the County.

**NUCLEAR ATTACK**-A hostile action taken against the United States which involves nuclear weapons and results in destruction of property and/or loss of life.

**NUCLEAR POWER PLANT ACCIDENTS**-An actual or potential release of radioactive material at a commercial nuclear power plant or other nuclear facility, in sufficient quantity to constitute a threat to the health and safety of the off-site population.

**OIL/GAS WELL INCIDENT**-An uncontrolled release of oil or gas, or the poisonous by-product hydrogen sulfide, from wells.

**PASSENGER TRANSPORTATION ACCIDENTS (AIR, LAND, AND WATER)**-A crash or accident involving an air, land or water-based commercial passenger carrier resulting in death or serious injury.

**PETROLEUM AND NATURAL GAS PIPELINE ACCIDENTS**-An uncontrolled release of petroleum or natural gas, or the poisonous by-product hydrogen sulfide, from a pipeline.

**PLUVIAL AND URBAN FLOODS**—The accumulation of water in low-lying and inadequately drained areas, following heavy precipitation events, including structural or power failures in municipal sewage systems, causing water to flood or back-up into houses and other structures , and infrastructure.

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**PUBLIC HEALTH EMERGENCIES**-A widespread and/or severe epidemic, incident of contamination, or other situation that presents a danger to or otherwise negatively impacts the general health and well-being of the public.

**RIVERINE (FLUVIAL) FLOODING**-The overflowing of rivers, streams, and channels-due to inadequate drainage capacity, drainage system failures, ice or log jams, accumulated sediments, erosion, or meandering, that results in nearby property damage, safety issues, disruption of infrastructure function and services, and/or decreased quality of life.

**SABOTAGE (TERRORISM)**-An intentional, unlawful use of force or violence against persons or property to intimidate or coerce a government, the civilian population, or any segment thereof, in furtherance of political, social, or religious objectives.

**SCRAP TIRE FIRES**-A large fire that burns scrap tires being stored for recycling/re-use.

**SEASONAL POPULATION CHANGE**-A population change for an extended time period, in the county, beyond the normal level of people to which resources are allocated.

**SEVERE WINDS**-Non-tornadic winds 58 miles per hour (mph) or greater.

**SHORELINE HAZARDS**-water level fluctuations, current and wave actions, and other conditions in the Great Lakes that cause flooding or erosion, or otherwise threaten life, health, and property in shoreline areas, including harmful algal blooms, ice surges, storm surges, meteotsunamis, rip currents, shoreline erosion and recession.

**SNOWSTORMS**-A period of rapid accumulation of snow often accompanied by high winds, cold temperatures, and low visibility.

**STRUCTURAL FIRES**-A fire, of any origin that ignites one or more structures, causing loss of life and/or property.

**SUBSIDENCE**-The lowering or collapse of the land surface caused by natural or human-induced activities that erode or remove subsurface support.

**THUNDERSTORM**-Weather systems accompanied by strong winds (at least 56 mph), lightning, heavy rain (that could cause flooding), hail, (at least ¼" in diameter), or tornadoes.

**TORNADOS**-An intense rotating column of wind that extends from the base of a severe thunderstorm to the ground.

**WILDFIRES**-An uncontrolled fire in grass or brushlands, or forested areas.