



Dam/Levee Failure

Occurs when any artificial barrier that impounds or diverts water is suddenly released in an uncontrollable manner, resulting in a flood wave that can damage buildings and infrastructure. Greene County has four High Hazard Potential dams and five Significant Hazard Potential dams.



Drought

Droughts occur when water levels drop. They can occur anywhere, and they increase the risks of flash floods, wildfires, and landslides. Drought conditions occurred in 2023, 2022, 2021, 2020, 2019, 2017, 2016, 2015, 2014, 2013, 2012, 2011, 2010, 2009, 2008, 2007, 2006, 2005, 2002, 2001, and 2000 in Greene County.



Earthquake

Earthquakes are sudden and rapid movements caused by the abrupt shifting of Earth's tectonic plates deep beneath the surface. Although earthquakes are very rare, they are unpredictable and can be catastrophic.



Extreme Temperatures

Extreme temperature events include both extreme cold and extreme heat. There have been at least eight extreme temperature events since 1995. No property damage has reportedly been caused by extreme temperatures.



Flooding

Floods are typically riverine, coastal, or shallow. Flash floods are floods that occur quickly, even occurring without visible signs of precipitation. Greene County has experienced 79 floods and flash floods since 1995. These events caused approximately \$279,5000 in property and crop damage.



Hazardous Materials

Hazardous materials (HAZMAT) are potentially harmful to environmental and/or human health. HAZMAT may be used for manufacturing, processing, or long-term storage. HAZMAT spills can occur near storage facilities or during transport.



Invasive Species

Invasive species are any species within Greene County that are not native to the area. These species can cause ecological or economic damage.



Landslides/Land Subsidence

A landslide occurs when rocks, earth, or other materials move down a slope. Common causes include rain, floods, and development practices along slopes. Land subsidence is when Earth's surface settles or suddenly sinks. These are common with abandoned mines.



Public Health Emergency (Epidemic)

Infectious diseases are caused by microscopic germs such as viruses, parasites, fungi, and parasites. Illnesses can range from the common cold or flu, Lyme disease, to more deadly diseases like Covid-19 or HIV.



Severe Summer Weather

Severe storms include **hailstorms, heavy rain, high wind, and thunder/lightning** storms. There have been 383 events in Greene County since 1995, causing approximately \$19.2 million in property and crop damage.



Tornadoes

Tornadoes usually occur during severe thunderstorm events.

Greene County has experienced at least 14 tornadoes since 1995.

Tornadoes have caused approximately \$67 million in property and crop damage.



Severe Winter Weather

Winter storms can include extreme cold, freezing rain, ice, snow, high winds, or any combination of these conditions. There have been 125 events in Fulton County since 1995, causing approximately \$1 million in property and crop damage.



Water Quality

Greene County residents receive their drinking water from reservoirs and ground water. Maintaining good water quality is important for Green County communities. Water quality is the measure of how suitability the water is for a particular purpose based on physical, chemical, and biological characteristics.



Terrorism

There are five types of terrorism, including an active aggressor, biological terrorism, chemical terrorism, cyberterrorism, and agroterrorism.



Wildfire

Wildfires are fires that occur in the wilderness or countryside and can spread quickly. Greene County has an average of 15 wildfire events per year between 2018 and 2022.