



Burton Planning Services

HAZARD MITIGATION PLAN

BROWN COUNTY EMERGENCY MANAGEMENT AGENCY

BROWN COUNTY HAZARD MITIGATION PLAN

Planning Meeting #2 | October 7, 2021

- Please Sign In via SurveyMonkey:
https://www.surveymonkey.com/r/BrownCoHMP_Meeting2_SignIn
- OR email bmorris@burtonplanning.com or browncountylepc@gmail.com with your name, email, phone, title, employer, and meeting attended.
- OR type your name, email, phone, title, employer into the chat
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LOCATION

Brown County, Ohio

TASKS

- Hazard Mitigation
- Public Involvement
- Sustainability/Resiliency

HIGHLIGHTS

- Addressed natural & human-made hazards
- Developed mitigation actions to reduce hazard impacts
- Created a project website for updates, meeting notices, and comments
- Facilitated public meetings virtually due to COVID-19

PROJECT DESCRIPTION

Under the Disaster Mitigation Act of 2000, local jurisdictions must have a disaster mitigation plan in effect to receive funds from the Federal Emergency Management Agency (FEMA) for pre-disaster mitigation activities. For this project, BPS prepared the update to the Brown County Hazard Mitigation Plan with the purpose of identifying and assessing the hazards that pose the greatest risk to Brown County and its communities.

The Brown County Hazard Mitigation Plan was updated by performing GIS/HAZUS mapping and analysis, researching hazard trends and related data, engaging the public and local stakeholders, and developing mitigation actions. The team initially identified the natural and man-made hazards affecting city, villages, and townships within Clinton County, and planned actions and activities to reduce any losses from those hazards. The resulting updated plan establishes a coordinated process to for implementation and takes advantage of a wide range of the county's resources.



Brown County Hazard Mitigation Plan Hazards Overview

 <p>Dam / Levee Failure</p> <p>There are 3 Class I dams in Brown County. Dam failure is the rapid and uncontrolled release of impounded water. Failure of Class I dams is likely to cause loss of life or economic damages.</p>	 <p>Extreme Temperatures</p> <p>Extreme temperature events include both extreme heat and extreme cold. There have been 5 extreme temperature events in Brown County since 2007.</p>	 <p>Earthquakes</p> <p>Earthquakes are caused by the breaking and shifting of rocks beneath the earth's surface. There has been one reported 2.0 - 2.9 magnitude earthquake in the County.</p>
 <p>Tornadoes & Damaging Winds</p> <p>Tornadoes usually occur during severe thunderstorms. Brown County has experienced at least 25 tornadoes since 1961, resulting in over \$17.5 million in property damage and at least one death.</p>	 <p>Winter Storms</p> <p>Winter storms can include extreme cold, freezing rain, ice, snow, wind chill, or any combination of these conditions. Since 1996, winter storms have caused approximately \$500,000 of property damage in Brown County.</p>	 <p>Hazardous Materials</p> <p>Hazardous materials include the gas and oil industry, as well as spills at storage or processing facilities or spills along roadways during shipping. Spills from transit can originate in other countries.</p>
 <p>Flooding</p> <p>Flooding is caused by the overflow of inland water. Flash floods occur when rain water accumulates on impervious surfaces. Since 1996, there have been at least 95 flood events in Brown County, 52 of which were flash floods. Flood events in the County have caused at least \$6.0 million in property damage.</p>	 <p>Severe Thunderstorms</p> <p>Severe thunderstorms include wind, lightning, and hail. Thunderstorms have caused more than \$6.5 million in property damage in Brown County since 1961. Damaging winds are typically covered under tornadoes.</p>	 <p>Drought</p> <p>Droughts occur when water levels drop. They can occur anywhere, and they increase the risks of flash floods, wildfires, and landslides. Droughts occurred in Summers of 1996 and 1999. While exact damages are difficult to quantify, crop yields may have suffered.</p>