



Auglaize County Hazard Mitigation Plan

LOCAL HAZARD MITIGATION GOALS – AUGLAIZE COUNTY

Including the cities, villages, and townships of the county

As per requirement 44 CFR Part 201.6(c)(3)(i): [The hazard mitigation strategy shall include: a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

STAKEHOLDERS (Core Planning Committee)

The Auglaize County Homeland Security and Emergency Management Agency (HSEMA) compiled a representative group of stakeholders to be known as the Hazard Mitigation Core Planning Committee (HMC) for the implementation of the county's Hazard Mitigation Plan. This committee included representatives from each of the governmental jurisdictions in Auglaize County.

METHODOLOGY

In the spring of 2004, the Auglaize County HSEMA undertook a project to identify the natural hazards that affect Auglaize County. This project was known as the Auglaize County Hazard Risk Assessment (HRA). The HRA included not only a listing of the hazards to which the county is susceptible, but also an analysis of the county's vulnerability to these hazards. Vulnerability was examined on several levels, including economic, environmental, and social. The HRA includes a brief analysis of development trends in the county. In short, the HRA provides a factual, numerical foundation on which to base the hazard mitigation plan.

The Auglaize County HSEMA and HMC identified several goals, objectives and strategies to mitigate the hazard risks identified in the Auglaize County HRA. This identification process was completed through HMC meetings and public review sessions.

HMC Meeting #1

The identification of hazards and the development of mitigative actions began at HMC Meeting #1 on April 19, 2004. The meetings were held in the Auglaize County Administration Building in the Assembly Room, this meeting was open to the general public. The first meeting was



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scheduled at 2 p.m. and another was scheduled at 7:30 p.m. for those not able to attend the afternoon session.

Three (3) primary items were discussed at this meeting. First, data and information about the natural hazards which Auglaize County is vulnerable to was reviewed. Charts, newspaper articles, presentations, and videos were presented showing what and where hazard events have taken place. Development on the risk assessment, vulnerability, and estimate losses was also discussed.

Secondly, the committee members received a packet of mitigation ideas to review. This was followed by brief discussions concerning possible mitigation activities. Thirdly, the HMC discussed possible methods to keep the public informed.

HMC Session #2

HMC Session #2 was held on May 17, 2004 at 2 p.m. at the Auglaize County Administration Building in the Assembly Room located at 209 S. Blackhoof Street, Wapakoneta. This meeting was centered around prioritizing potential hazards and developing mitigation goals, and objectives.

HMC Session #3

HMC Session #3 was held on June 21, 2004 at 2 p.m. with a repeat session at 7:30 p.m. for those who could not attend the afternoon session. The location of the meeting was at the Auglaize County Administration Building in the Assembly Room on the second floor. The primary focus of this meeting was the development of mitigation strategies.

Additional HMC and Public Involvement

The public was involved throughout the entire hazard risk assessment and mitigation planning processes. During the HRA, many individuals from the county's assets were contacted regarding their facility. These individuals were briefed on the mitigation planning process and asked for input, both on their facility and on which hazards they thought most threatened Auglaize County.



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GOALS, OBJECTIVES, AND STRATEGIES

The Auglaize County HSEMA and HMC determined several goals, objectives, and strategies to mitigate the hazard risks identified in the county's HRA. These mitigation actions were developed based on projects thought to be most feasible and beneficial to hazard reduction. It is important to note that not all hazards appearing in the HRA have a significant number of mitigation strategies suggested. For many hazards, public awareness is the most feasible, cost effective, and beneficial strategy. The mitigation actions were also developed in accordance with the types of mitigation strategies identified in "Mitigation Ideas: Possible Mitigation Measures by Hazard Type", which was distributed by the Ohio Emergency Management Agency.

It is important to note that the following strategies have been assigned tentative cost estimates. These cost estimates are only ranges of probable project costs, and due to unforeseen future economic conditions, may prove to be low estimates. All figures are approximations. At the time the implementation of any strategy is considered, a full cost estimate should be sought prior to securing funding.

Mitigation strategies fall into several categories. Following, each strategy is listed with the category to which it belongs. The categories of mitigation strategies are:

1. Prevention
2. Property protection
3. Natural resource protection
4. Structural projects
5. Emergency services
6. Public education and awareness



AUGLAIZE COUNTY

GOAL 1: Reduce the potential for dam failures in Auglaize County.

Objective 1.1: Reduce the probability of significant flood damage as a result of a dam failure.

Strategy 1.1.1: During all new dam construction, encourage the completion of a critical flood engineering analysis by a professional engineer licensed in the State of Ohio.

- Timeframe:** During new construction
- Funding (Cost Estimate):** Local funding (\$50,000 to \$75,000 if a consultant is used)
- Coordinating Agency:** Auglaize County EMA can encourage the owner of the dam; the owner of the dam would be responsible for any costs incurred.
- Mitigation Type:** Prevention

Strategy 1.1.2: Coordinate with the ODNR, Dam Safety Engineering Program to conduct regular safety inspections of existing dams in Auglaize County.

- Timeframe:** 1 year
- Funding (Cost Estimate):** No funding required per ODNR’s normal operating budget. (N/A)
- Coordinating Agency:** Dam Owners, ODNR
- Mitigation Type:** Prevention

GOAL 2: Protect Auglaize County’s agricultural assets from the negative effects of drought.

Objective 2.1: Reduce the county’s vulnerability to grass fires during extremely dry conditions which are present during times of drought. A dry hydrant system is needed in unincorporated areas to assist firefighting operations.



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Strategy 2.1.1: Purchase and install a dry hydrant system capable of controlling grass fires that occur during dry conditions.

- Timeframe:** 3 years
- Funding (Cost Estimate):** Local funding. (*Up to \$5,000 to \$10,000*)
- Coordinating Agency:** County Commission, Fire Chief's Association
- Mitigation Type:** Natural Resource Protection
Property Protection

Objective 2.2: Increase public awareness as to the agricultural effects of drought, as well as the ramifications to the public water supply.

Strategy 2.2.1: Develop an informational brochure to distribute to local farmers and residents.

- Timeframe:** 6 months
- Funding (Cost Estimate):** USDA, if necessary (*\$3,000 for publication and distribution, if USDA does not already have such materials printed*).
- Coordinating Agency:** Natural Resources Conservation Service (NRCS), Farm Bureau.
- Mitigation Type:** Public Education and Awareness.

GOAL 3: Reduce the potential effects of earthquakes in Auglaize County.

Objective 3.1: Educate the public as to the potential for earthquakes in Ohio, specifically Auglaize County.

Strategy 3.1.1: Develop an informational brochure explaining the potential for earthquakes, as well as the potential damages from those earthquakes. The brochure should include information pertaining to measures to take to safe-proof homes and other structures from the potential effects of earthquakes.

- Timeframe:** 6 months



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Funding (Cost Estimate): PDM (*\$3,000 for publication and distribution of informative materials*).

Coordinating Agency: Auglaize County HSEMA.

Mitigation Type: Public Education and Awareness.

Objective 3.2: Lessen the potential for cascading effects as a result of earthquake occurrences in Auglaize County.

Strategy 3.2.1: Investigate the impact an earthquake could have on the various pipelines that cross the county, as well as the Grand Lake St. Marys Dam, which is a large Class I dam. The east embankment dam has a storage volume of over 13,000 acre feet.

Timeframe: 1 year

Funding (Cost Estimate): Local funding. (*Up to \$3,000 to \$5,000*)

Coordinating Agency: Auglaize County HSEMA, ODNR, Division of Water, USACOE.

Mitigation Type: Prevention.

GOAL 4: Reduce the negative effects of flooding in Auglaize County.

Objective 4.1: Lessen flood damage by preserving the natural course of waterways.

Strategy 4.1.1: Clean the Auglaize River and its floodplain, clearing log jams, trees and shrubs, and sediment bars. Also dredge the bottom of the Miami-Erie Canal.

Timeframe: 5 years

Funding (Cost Estimate): USACOE, Local funding (*small sections of the river could cost as much as \$50,000 to \$100,000*).

Coordinating Agency: County Engineer, USACOE

Mitigation Type: Prevention.

Strategy 4.1.2: Evaluate the need for constructing more retention ponds, catch basins, wetlands, and wooded areas.



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Timeframe: 1 year

Funding (Cost Estimate): FMA, PDM, CDBG (*up to \$5,000,000 to \$10,000,000; contingent upon the size of the project*)

Coordinating Agency: County Engineer, USACOE

Mitigation Type: Structural Project

Strategy 4.1.3: Increase public information on flood zones, flash flooding. Locate roadways in high water areas and set up warning signs where needed.

Timeframe: 6 months

Funding (Cost Estimate): Local funding. (*\$3,000 for publication and distribution of informative materials*)

Coordinating Agency: County Engineer, Auglaize County
HSEMA

Mitigation Type: Public Education and Awareness.

Strategy 4.1.4: Conduct a feasibility study for the relocation of the southeast lift station which is currently located in a known floodplain.

Timeframe: 6 months

Funding (Cost Estimate): Local funding. (*Up to \$6,000 to \$10,000 to complete the study*)

Coordinating Agency: County Engineer, Auglaize County
HSEMA

Mitigation Type: Prevention, Property Protection.

Strategy 4.1.5: Install drainage tile to route floodwater around the Mt. Tabor Cemetery.

Timeframe: 2 years

Funding (Cost Estimate): Local funding. (*Up to \$25,000 to \$50,000*)

Coordinating Agency: County Engineer, Private Contractor

Mitigation Type: Prevention, Property Protection.



GOAL 5: Reduce human suffering and property damage as a result of severe storms.

Objective 5.1: Increase public awareness that a severe thunderstorm is imminent.

Strategy 5.1.1: Coordinate with the National Weather Service (NWS) to warn residents of impending severe thunderstorm conditions.

- Timeframe:** 3 months
- Funding (Cost Estimate):** No additional funding necessary (N/A)
- Coordinating Agency:** Auglaize County HSEMA, National Weather Service
- Mitigation Type:** Public Education and Awareness.

Strategy 5.1.2: Encourage the use of NOAA weather radios that continuously broadcast National Weather Service forecasts and provide direct warnings to the public for natural hazards. At a minimum, each township should possess a radio.

- Timeframe:** 3 months
- Funding (Cost Estimate):** Encouraging use requires no additional funding; however, purchasing weather radios may require significant funding. *(up to \$2,000 to purchase and install approximately 15 radios).*
- Coordinating Agency:** Auglaize County HSEMA
- Mitigation Type:** Public Education and Awareness.

Strategy 5.1.3: Encourage the use of the Emergency Alert System (EAS) on commercial radio, television, and cable systems to send out emergency information targeted to specific areas.

- Timeframe:** 3 months
- Funding (Cost Estimate):** The EAS is already an established available service. Its use requires no additional



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funding. (N/A)

Coordinating Agency: Auglaize County HSEMA, Local Law Enforcement

Mitigation Type: Public Education and Awareness

Strategy 5.1.4: Ensure that surge protection, such as surge protectors and grounding, has been installed on all critical electronic equipment owned by county government.

Timeframe: 1 month

Funding (Cost Estimate): Local funding.

Coordinating Agency: Auglaize County HSEMA

Mitigation Type: Prevention

Strategy 5.1.5: Request funding for a countywide lightning detection system for parks, ball diamonds, fairgrounds, and golf courses.

Timeframe: 2 years

Funding (Cost Estimate): Local funding PDM. (*Up to \$75,000 to \$150,000*)

Coordinating Agency: Auglaize County HSEMA

Mitigation Type: Prevention, Emergency Services

Objective 5.2: Decrease response time during severe weather events.

Strategy 5.2.1: Encourage each township or community to compile a list of CERT members or volunteers who own snowmobiles and/or 4-wheel drive vehicles that can help transport supplies and those needing medical assistance.

Timeframe: 6 months

Funding (Cost Estimate): No additional funding necessary. (N/A)

Coordinating Agency: Auglaize County HSEMA, CERT members

Mitigation Type: Emergency Services



GOAL 6: Reduce damage from severe wind and tornadoes in Auglaize County.

Objective 6.1: Increase public awareness that severe wind and tornadoes are imminent.

Strategy 6.1.1: Coordinate with the National Weather Service and the Mercer County warning system and local radio operators to warn residents of impending severe winds and possible tornado conditions primarily in the St. Marys area.

- Timeframe:** 3 months
- Funding (Cost Estimate):** No additional funding necessary. (N/A)
- Coordinating Agency:** Auglaize County HSEMA, Mercer County EMA, NWS
- Mitigation Type:** Public Education and Awareness

Strategy 6.1.2: Install tornado warning sirens in every township of the county. Areas still needing sirens include: New Knoxville, Minster, and St. Marys Township.

- Timeframe:** 3 years
- Funding (Cost Estimate):** Local funding, PDM. *(Could range from \$2,000 to \$5,000 per siren).*
- Coordinating Agency:** Auglaize County HSEMA, County Commission.
- Mitigation Type:** Public Education and Awareness

Objective 6.2: Minimize future damage from severe wind or tornadoes throughout Auglaize County by increasing control over construction activities.

Strategy 6.2.1: Enforce existing building codes that regulate the materials used in new construction with respect to design wind speeds.

- Timeframe:** 1 year
- Funding (Cost Estimate):** Enforcing ordinances will require no additional funding; however, the



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administrative aspect of code enforcement
may require funding. (N/A)

Coordinating Agency: County Commission

Mitigation Type: Property Protection

Objective 6.3: Increase the county’s ability to shelter residents during severe wind and tornado events.

Strategy 6.3.1: Construct two (2) multi-purpose shelters near the county fairgrounds, that are capable of withstand high wind speeds.

Timeframe: 1 year

Funding (Cost Estimate): Local funding FEMA (\$15,000 to \$20,000).

Coordinating Agency: Auglaize County HSEMA, American Red Cross

Mitigation Type: Emergency Services

Strategy 6.3.2: Reduce the risk of mobile home damage by suggesting the use of tie-downs with ground anchors appropriate for the soil type.

Timeframe: 6 months

Funding (Cost Estimate): No additional funding (N/A; however, tie down kits cost approximately \$150 each and usually include four anchors.)

Coordinating Agency: Auglaize County HSEMA

Mitigation Type: Property Protection

CITIES, VILLAGES AND TOWNSHIPS OF AUGLAIZE COUNTY

BUCKLAND VILLAGE AND LOGAN TOWNSHIP

GOAL 1A: Reduce the potential for flooding along the Auglaize River in Buckland Village.

Objective 1A.1: Lessen flood damage throughout Logan Township and the Village of Buckland by restoring and preserving the natural course of the Auglaize River.



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Strategy 1A.1.1: Clean the Auglaize River and its floodplain in Logan Township, clearing log jams, trees and shrubs, and sediment bars.

- Timeframe:** 5 years
- Funding (Cost Estimate):** USACOE, Local funding (*small sections of the river could cost as much as \$50,000 to \$100,000*).
- Coordinating Agency:** Village Administrator, Township Trustees, USACOE
- Mitigation Type:** Prevention.

CRIDERSVILLE VILLAGE AND DUCHOUQUEST TOWNSHIP

GOAL 1B: Reduce the negative effects of drought in the Village of Cridersville.

Objective 1B.1: Encourage residents to take water-saving measures especially when extra water is needed for irrigation and farming purposes.

Strategy 1B.1.1: Develop measures to prioritize or control water use during extremely dry conditions.

- Timeframe:** Ongoing
- Funding (Cost Estimate):** No additional funding necessary.
- Coordinating Agency:** Village Administrator, Township Trustees.
- Mitigation Type:** Natural Resource Protection.

MINSTER VILLAGE AND JACKSON TOWNSHIP

GOAL 1C: Reduce the effects of flooding within the Village of Minster and throughout the urban areas of Jackson Township.

Objective 1C.1: Reduce the amount of debris and materials that can be swept away by flood waters compounding flooding problems.



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Strategy 1C.1.1: Control and secure debris and yard items, or stored objects (including oil, gasoline, and propane tanks, and paint and chemical barrels) in floodplains that may be swept away, damaged, or pose a hazard when flooding occurs.

- Timeframe:** Ongoing
- Funding (Cost Estimate):** No additional funding necessary.
- Coordinating Agency:** Village and Township residents.
- Mitigation Type:** Prevention

NEW BREMEN VILLAGE AND GERMAN TOWNSHIP

GOAL 1D: Reduce the negative effects of severe winter weather in New Bremen Village and through the remained of German Township.

Objective 1D.1 Reduce the amount of blowing and drifting snow over critical roadways in German Township.

Strategy 1D.1.1: Construct snow fences or “living snow fences” (rows of trees or vegetation) to limit blowing and drifting snow over critical roadway segments.

- Timeframe:** 3 years
- Funding (Cost Estimate):** Local funding. *(The construction of a snow fence could range from \$2,500 to \$4,000).*
- Coordinating Agency:** County Engineer, Township Trustees
- Mitigation Type:** Prevention, Structural Project

NEW KNOXVILLE VILLAGE AND WASHINGTON TOWNSHIP

GOAL 1E: Reduce the potential for human suffering and property damage as a result of earthquakes.

Objective 1E.1: Improve the delivery and effectiveness of public information to the residents concerning the potential for and hazards associated with earthquakes.

Strategy 1E.1.1: Develop an informational brochure explaining the potential for earthquakes, as well as the potential damages from those earthquakes. The brochure



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should include information pertaining to measures to take to safe-proof homes and other structures from the potential effects of earthquakes.

- Timeframe:** 6 months
- Funding (Cost Estimate):** PDM (\$3,000 for publication and distribution of informative materials).
- Coordinating Agency:** Auglaize County HSEMA, Designated Council Members.
- Mitigation Type:** Public Education and Awareness.

ST. MARYS CITY AND ST. MARYS AND NOBLE TOWNSHIPS

GOAL 1F: Reduce personal injury and damages as a result of severe storms throughout the City of St. Marys and St. Marys and Noble Townships.

Objective 1F.1: Improve the delivery and effectiveness of warning messages to the residents of St. Marys.

Strategy 1F.1.1: Invest in an early warning system/network and train personnel to serve as weather spotters.

- Timeframe:** 6 months
- Funding (Cost Estimate):** PDM (\$3,000 for publication and distribution of informative materials).
- Coordinating Agency:** Auglaize County HSEMA, Designated Council Members.
- Mitigation Type:** Public Education and Awareness.

UNIOPOLIS VILLAGE AND UNION TOWNSHIP

GOAL 1G: Reduce damage and personnel injury as a result of severe wind or tornadoes in Uniopolis Village.

Objective 1G.1: Decrease the amount of material that can be blown about by strong winds and/or tornadoes.

Strategy 1G.1.1: Encourage residents to secure loose materials, such as yard and patio items indoors or where winds cannot blow them around.



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Timeframe:	6 months
Funding (Cost Estimate):	No additional funding necessary.
Coordinating Agency:	Community residents, Township Trustees, Village Council.
Mitigation Type:	Property Protection.

CITY OF WAPAKONETA AND PUSHETA TOWNSHIP

GOAL 1H: Decrease the potential for injuries during severe winds and/or tornadoes.

Objective 1H.1: Develop a means to shelter a large population from the effects of severe winds and tornadoes.

Strategy 1H.1.1: Construct multi-purpose shelters near recreational parks, mobile home parks, and the county fairgrounds.

Timeframe:	2 years
Funding (Cost Estimate):	FEMA, PDM (<i>Up to \$50,000 to \$80,000 per shelter</i>).
Coordinating Agency:	Auglaize County HSEMA, County Commission, Auglaize County ARC.
Mitigation Type:	Structural Project

VILLAGE OF WAYNESFIELD AND WAYNE AND GOSHEN TOWNSHIP

GOAL 1I: Protect Waynesfield's agricultural assets from the negative effects of drought.

Objective 1I.1: Increase public awareness as to the agricultural effects of drought, as well as the ramifications to the public water supply.

Strategy 1I.1.1: Develop an informational brochure to distribute to local farmers and residents.

Timeframe:	6 months
Funding (Cost Estimate):	USDA, if necessary (<i>\$3,000 for publication and distribution, if USDA does not already have such materials printed</i>).



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Coordinating Agency: Natural Resources Conservation Service (NRCS), Auglaize County Farm Service Agency.

Mitigation Type: Public Education and Awareness.