



MITIGATION ACTIONS SCORING MATRIX

Purpose

As part of the hazard mitigation planning process, communities are asked to identify specific projects and activities (mitigation actions) that will help their communities achieve the long-term outcomes related to specific hazards. The status of each previously identified mitigation action is reviewed during the Hazard Mitigation Planning Process to determine the progress being made towards the County's hazard-specific goals. New mitigation projects and actions are also identified in this process.

The purpose of the Mitigation Actions Scoring Matrix is to determine which mitigation actions are relevant to each of the communities within Shelby County and to develop a corresponding action plan that describes how the mitigation actions will be implemented. Scores collected from this Mitigation Actions Scoring Matrix will be used to decide how the mitigation actions will be prioritized, administered, and incorporated into Shelby County's existing planning mechanisms.

Instructions

To complete this matrix, please review each proposed mitigation action and indicate if it is applicable to your jurisdiction. If it is applicable, score it from 1-5 for each category described below. For each category, a rating of 1 is the lowest score, a rating of 3 is neutral/unsure, and a rating of 5 is the highest score.

1. **Applicable to your jurisdiction? – Write Yes or No** – to indicate if you think this mitigation action is applicable to your community or jurisdiction. If Yes, fill out the remaining columns; if No, do not fill out the remaining columns.
2. **Cost Effective – Rank 1 – 5** – the cost effectiveness of each proposed mitigation action, with 5 being the most cost effective and 1 being the least cost effective.
3. **Technically Feasible – Rank 1 – 5** – the feasibility of each proposed mitigation action, with 5 being the most feasible and 1 being the least feasible.
4. **Environmentally Sound – Rank 1 – 5** – the proposed mitigation action in terms of how environmentally sound it seems, with 5 being the most sound and 1 being the least sound.
5. **Immediate Need – Rank 1 – 5** – whether each proposed mitigation action is needed immediately, with 5 being the most immediate need and 1 being not an immediate need.
6. **Risk Reduction – Rank 1 – 5** – the proposed mitigation action on the extent to which it will reduce the total risk of the associated hazard, with 5 being the greatest contribution to risk reduction and 1 being the least contribution to risk reduction.

In addition, if there are any mitigation actions that are not listed that should be included, please add them and score them on the last page. We encourage you to consider regularly occurring problems for each hazard listed below and suggest mitigation actions for these problems. You may also list regularly occurring problems within your community without suggesting a mitigation action.



Each action is associated with a goal of the hazard mitigation plan. These goals are listed below for your reference:

- Minimize property damage, economic loss, injury, and loss of human life – to achieve the Plan’s main goal of reducing the impact of natural and manmade hazards on the County’s economy and the well-being of its citizens.
- Enhance public awareness and education – to widen the public’s understanding of natural and manmade hazards and how they might affect public health and safety, the environment, the local economy, and basic day-to-day operations.
- Coordinate inter-jurisdictional preparedness measures – to encourage and ensure multi-jurisdictional cooperation in County-wide mitigation actions and programs so that they may be implemented efficiently and effectively.
- Provide decision-making tools for interested stakeholders – to formulate a comprehensive, updated analysis of Shelby County’s vulnerability to hazards so that decision-makers can better prepare for natural and manmade disasters.



NAME:	JURISDICTION:
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#	Mitigation Action	Status	Applicable to jurisdiction? (Y/N)	Cost Effective (1-5)	Technically Feasible (1-5)	Environmentally Sound(1-5)	Immediate Need (1-5)	Risk Reduction (1-5)
<i>Dam Failure</i>								
1	Obtain inundation mapping for at least all high hazard potential dams in the County.	New						
2	Identify and record any high hazard potential dams in the County in need of rehabilitation.	New						
3	Rehabilitate high hazard potential dams in the County as needed.	New						
<i>Drought</i>								
4	Identify local drought indicators, such as precipitation, temperature, surface water levels, soil moisture, etc.	New						
5	Regularly monitor and report on local drought indicators.	New						
6	Develop a drought communication plan and early warning system.	New						
7	Develop a public education program for residents for restrictions on open burning and water usage during drought conditions.	Previous						
<i>Flooding</i>								
8	Ensure that all communities eligible for participation in the National Flood Insurance Program (NFIP) continue to participate.	New						
9	Develop a floodplain management plan and update it regularly.	New						



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10	Establish a green infrastructure program to link, manage, and expand existing parks, preserves, greenways, etc.	New						
11	Require that floodplains be kept as open space.	New						
12	Limit the percentage of impervious surfaces within developed parcels (including parking).	New						
13	Complete a stormwater drainage study for known problem areas.	New						
14	Prepare and adopt a stormwater drainage study for known problem areas.	New						
15	Conduct a verification study of FEMA's repetitive loss inventory and developing an associated tracking database.	New						
16	Raise utilities and other mechanical devices above expected flood levels.	New						
17	Require that any County designated lifeline or critical facility is located outside of 100 year floodplains.	New						
18	Map or otherwise record flood and flash flood events.	New						
19	Develop or maintain a floodplain management plan, and update it regularly.	New						
20	Develop depth analysis grids to reduce flooding impacts for locations within the Great Miami Watershed and Loramie Creek Watershed.	Previous						
21	Purchase, retrofit, relocate, or demolish repetitive loss properties in the County.	Previous						
22	Develop a river and stream maintenance program for removing debris and log jams from drainage ways	Previous						



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23	Develop plan to replace, modify, or expand culverts along OH-705 in the Village of Fort Loramie.	Previous						
24	Improve storm water drainage in the Village of Fort Loramie.	Previous						
25	Elevate or otherwise address flood prone structures within the base elevation of the 100- year floodplain.	Previous						
26	Develop plans to replace, modify, or expand culverts along the Hull Creek railroad in the Village of Botkins.	Previous						
27	Seek sources of funding to minimize storm water drainage problems in the Village of Jackson Center.	Previous						
28	Seek funding to update Flood Insurance Rate Maps.	Previous						
<i>Hazardous Materials</i>								
29	Complete a commodity flow study.	New						
<i>Invasive Species</i>								
30	Identify ash trees at risk to the Emerald Ash Borer.	New						
31	Identify trees with symptoms of Emerald Ash Borer infestation.	New						
32	Treat healthy trees and replace highly damaged trees with a non-Ash species.	New						
33	Identify ash trees within 15 miles of a confirmed Emerald Ash Borer infestation. Identify appropriate preventative treatments for ash trees in this zone.	New						
34	Identify and log any invasive species event, including plants and animals.	New						
<i>Landslides</i>								
35	Identify and map landslide hazard areas.	New						



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36	Encourage the planting of plants with strong root systems on slopes in at risk areas.	New						
37	Define steep slope/high risk areas in land use and comprehensive plans and create guidelines or restrict new development in those areas.	New						
38	Apply soil stabilization measures, such as planting soil-stabilizing vegetation on steep, publically owned slopes.	New						
<i>Multiple Hazards</i>								
39	Adopt the International Building Code (IBC) and International Residential Code (IRC).	New						
40	Encourage the use of natural plantings.	New						
41	Form a citizen plan implementation steering committee to monitor progress on local mitigation actions. Include a mix of representatives from neighborhoods, local businesses, and local government.	New						
42	Define and identify populations that may be vulnerable during severe weather events.	New						
43	Develop education programs associated with multiple natural hazards and how to prepare for them prior to their occurrence.	New						
44	Develop a public education program for informing residents about the benefits of having NOAA radios and Family Disaster Plans, which will help them better respond to an emergency situation.	New						
45	Seek funding for early warning systems, such as sirens and county-wide emergency notification system, to warn residents of approaching severe weather.	Previous						



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46	Provide back-up generators and the necessary hook-ups for critical facilities, which need to maintain continuous power to protect human health and life.	Previous						
47	Develop emergency plan for the Sidney Senior Center.	Previous						
48	Develop a tree maintenance program for trimming and pruning trees to help prevent damage from falling limbs.	Previous						
49	Develop an outreach program for informing citizens of designated shelter locations.	Previous						
50	Construct community shelter/safe rooms in the Village of Fort Loramie.	Previous						
51	Develop educational information for general public concerning alternate methods for keeping basements dry.	Previous						
52	Seek funding for auto sandbag filling equipment.	Previous						
<i>Severe Summer Storms</i>								
53	Install and maintain surge protection on critical electronic equipment.	New						
54	Post warning signs about hail, wind, and lightning at local parks, county fairs, and other outdoor venues.	New						
55	Coordinate with utility companies to perform regular tree trimming near utility lines.	New						
56	Encourage the construction of safe rooms in schools, daycares, nursing homes, and other buildings with vulnerable populations.	New						
57	Encourage the construction of safe rooms in mobile home communities.	New						



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58	Distribute the location of public safe rooms to the general public.	New						
<i>Severe Winter Weather</i>								
59	Install heating systems in public shelters and lifelines/critical facilities that could be used as public shelters.	New						
60	Use snow fences or living snow fences to limit blowing and drifting of snow over critical roadway segments.	New						
<i>Wildfire</i>								
61	Identify and map wildfire risk areas.	New						
62	Identify communities who are potentially vulnerable to wildfires.	New						



Additional Mitigation Actions

Mitigation Action	Hazard	Cost-Effective	Technically Feasible	Environmentally Sound	Immediate Need	Risk Reduction