

4 MITIGATION STRATEGY 4.1

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44 CFR Requirement §201.6(c)(3): The plan shall include a mitigation strategy that provides the jurisdiction’s blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.

This section presents the mitigation strategy developed by the Mitigation Planning Committee (MPC). The mitigation strategy was developed through a collaborative group process. The process included review of general goal statements to guide the jurisdictions in lessening disaster impacts as well as specific mitigation actions to directly reduce vulnerability to hazards and losses. The following definitions are taken from FEMA’s *Local Hazard Mitigation Review Guide (2023)*.

- **Goals** are broad, long-term policy and vision statements that explain what is to be achieved by implementing the mitigation strategy.
- A **mitigation action** is a measure, project, plan or activity proposed to reduce current and future vulnerabilities described in the risk assessment.

4.1 Goals

44 CFR Requirement §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.

This planning effort is an update to Maries County’s existing hazard mitigation plan approved by FEMA on September 5, 2019. Therefore, the goals from the updated 2018 Maries County Hazard Mitigation Plan were reviewed to see if they were still valid, feasible, practical, and applicable to the defined hazard impacts. The MPC conducted a discussion session during their second meeting to review and update the plan goals. To ensure that the goals developed for this update were comprehensive and supported State goals, the 2023 State Hazard Mitigation Plan goals were reviewed. The MPC also reviewed the goals from current surrounding county plans. The MPC then reviewed the existing goals from the current plan and decided on revisions to consolidate from six goals down to three to remove redundancy and improve coverage in the Action Plan. The following goals were established for the 2024 Maries County plan update:

Goal 1: Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.

Goal 2: Reduce the potential impact of natural disasters on property, infrastructure, and the local economy.

Goal 3: Reduce the potential impact of natural disasters on the continuity of government and essential services.

4.2 Identification and Analysis of Mitigation Actions

44 CFR Requirement §201.6(c)(3)(ii): The mitigation strategy shall include a section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.

During the first MPC meeting, the committee discussed what needed to be updated in the risk assessment. Changes in risk since adoption of the previously approved plan were discussed. Since the last update, there has been no death due to natural hazard events. Action items were reviewed and suggestions made for changes to address the changes in risk. Discussions from the actions from the previous plan included completed actions, on-going actions, and actions upon which progress had not been made. The MPC discussed SEMA's identified funding priorities and the types of mitigation actions generally recognized by FEMA.

The MPC determined to include problem statements in the plan update at the end of each hazard profile. The problem statements summarize the risk to the planning area presented by each hazard and include possible methods to reduce that risk. Use of the problem statements allowed the MPC to recognize new and innovative strategies to mitigate risks in the planning area.

The focus of Meeting #2 was to review, prioritize and update the mitigation strategy. The MPC reviewed the list of actions proposed in the previous mitigation plan and proposed additional mitigation actions. Facilitators also provided suggestions for actions based on what some of the surrounding counties had included in their plans. Participants were also encouraged to refer to the current State Plan and provided a link to the FEMA's publication, *Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards (January 2013)*. This document was developed by FEMA as a resource for identification of a range of potential mitigation actions for reducing risk to natural hazards and disasters.

During the review of the plan document, MPC members were encouraged to review the details of the risk assessment vulnerability analysis specific to their jurisdiction.

The MPC reviewed the actions from the previously approved plan for progress made since the plan had been adopted. Copies of the list of actions for each jurisdiction were provided to MPC members at planning meetings and were emailed out to all members. Action items were reviewed and the MPC provided updates on the status of action items during both planning meetings and the meeting with the road and bridge department. Each action item was reviewed and assigned one of the following:

- Completed, with a description of the progress,
- Not Started/Continue in Plan Update, with a discussion of the reasons for lack of progress,
- In Progress/Continue in Plan Update, with a description of the progress made to date or
- Deleted, with a discussion of the reasons for deletion.

Based on the status updates, there were six completed actions, five deleted actions, four actions that were combined with other similar actions, and fifteen continuing actions.

Table 4.1 provides a summary of the action statuses for each jurisdiction:

Table 4.1. Action Status Summary

Jurisdiction	Completed Actions	Continuing Actions (ongoing or modify)	Deleted Actions
Maries County	5	16	6
Belle	5	11	6
Vienna	5	16	6
Maries County R-I School District	5	5	0
Maries County R-II School District	5	5	0

Table 4.2 provides a summary of the completed and deleted actions from the previous plan.

Table 4.2. Summary of Completed and Deleted Actions from the Previous Plan

Completed Actions	Completion Details (date, amount, funding source)
1.1.6 Educate school staff on natural hazards and make sure all staff are familiar with school emergency plan including evacuation and safety procedures.	All school districts agree that this is currently implemented and is embedded in district's policy and procedures and requirements from the Missouri Department of Elementary and Secondary Education.
1.2.2 Continue to promote weather radios to local residents through press releases and brochures to ensure advanced warning about threatening weather.	All participating jurisdictions agreed that this is accomplished by the National Weather Service. Citizens in the planning area are aware or and have had opportunities to receive emergency weather radio at little or no cost.
1.2.4 Monitor developments in data availability concerning the impact of dam failure, tornadoes, sinkholes, land subsidence, and wildfire upon Maries County and all jurisdictions through local, state, and federal agencies for use in hazard mitigation planning.	All jurisdictions agree that this is regularly achieved through the plan update process. In addition, SEMA has indicated that this action item can be removed from plans.
3.3.1 Re-evaluate the hazard mitigation plan, merge with other community planning and coordinate and integrate hazard mitigation activities, where appropriate, with emergency operations, plans, and procedures.	All jurisdictions agree that this is regularly achieved through the plan update and maintenance process.
6.1.3 Work with state/local/federal agencies to include mitigation in all economic and community development projects.	All jurisdictions agree that this is regularly achieved through the plan update and maintenance process.
6.3.1 Prioritize mitigation projects, based on cost-effectiveness and starting with those sites facing the greatest threat to life, health, and property.	All jurisdictions agree that this is regularly achieved through the plan update process.
Deleted Actions	Reason for Deletion
2.1.2 Encourage the development and implementation of minimum building codes in all communities.	Removed due to not meeting SMART criteria and MPC rating the priority as low.
2.1.6 Encourage cities to require contractor storm water management plans in all new development – both residential and commercial properties.	Removed due to not meeting SMART criteria and MPC rating the priority as low.

2.2.2 Encourage the development of storm water management plans.	Duplicate of 2.1.6 Encourage cities to require contractor storm water management plans in all new development – both residential and commercial properties.
2.3.4 Encourage the City of Belle to become a member of NFIP	Removed due to not meeting SMART criteria and being a low priority.
3.4.2 Publicize local, regional, and/or statewide drills.	Removed due to no longer being a high priority.
Combined Actions	Explanation
1.3.3 Continue to maintain a list of locations that can serve as shelters for storm, cooling/warming shelters, and establish MOUs with the appropriate organizations responsible for those facilities.	Combined with 5.2.2 Encourage the assessment of public buildings as potential storm shelters; designate those that are suitable as safe shelters; and develop accessibility plans for the public during times of need.
4.1.1 Continue to encourage joint meetings of different organizations/agencies for mitigation related planning.	Combined with 3.2.2. Encourage meetings between EMB, city/county officials, and SEMA to familiarized officials with mitigation planning, implementation, and budgeting for mitigation projects.
4.1.3 Whenever possible pool different agency resources to achieve widespread mitigation results.	Combined with 3.2.2. Encourage meetings between EMB, city/county officials, and SEMA to familiarized officials with mitigation planning, implementation, and budgeting for mitigation projects.
6.2.2 Implement public awareness program about the benefits of hazard mitigation projects, both public and private, through press releases and brochures.	Combined with 3.3.2 Implement a public awareness program on the benefits of hazard mitigation – both public and private – by distributing press releases and brochures (by local governments and school districts) on adopted mitigation measures to help the public stay abreast of changes and/or new regulations.

Source: Previously approved County Hazard Mitigation Plan; MPC committee; data collection questionnaires

4.3 Implementation of Mitigation Actions

44 CFR Requirement §201.6(c)(3)(ii): The mitigation strategy shall include an action strategy describing how the actions identified in paragraph (c)(2)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefits review of the proposed projects and their associated costs.

Jurisdictional MPC members were encouraged to meet with others in their community to discuss the actions to be included in the updated mitigation strategy. Throughout the MPC consideration and discussion, emphasis was placed on the importance of a benefit-cost analysis in determining project priority. The Disaster Mitigation Act requires benefit-cost review as the primary method by which mitigation projects should be prioritized. The MPC decided to pursue implementation according to when and where damage occurs, available funding, political will, jurisdictional priority, and priorities identified in the Missouri State Hazard Mitigation Plan. The benefit/cost review at the planning stage primarily consisted of a qualitative analysis and was not the detailed process required grant funding application. For each action, the plan sets forth a narrative describing the types of benefits that could be realized from action implementation. The cost was estimated as closely as possible, with further refinement to be supplied as project development occurs.

FEMA's STAPLEE methodology was used to assess the costs and benefits, overall feasibility of

mitigation actions, and other issues impacting project. During the prioritization process, the MPC worked together to review and assign scores. The process posed questions based on the STAPLEE elements as well as the potential mitigation effectiveness of each action. Scores were based on the responses to the questions as follows:

Definitely yes = 3 points
Maybe yes = 2 points
Probably no = 1
Definitely no = 0

The following questions were asked for each proposed action.

S: Is the action socially acceptable?
T: Is the action technically feasible and potentially successful?
A: Does the jurisdiction have the administrative capability to successfully implement this action?
P: Is the action politically acceptable?
L: Does the jurisdiction have the legal authority to implement the action?
E: Is the action economically beneficial?
E: Will the project have an environmental impact that is either beneficial or neutral? (score “3” if positive and “2” if neutral)

Will the implemented action result in lives saved?
Will the implanted action result in a reduction of disaster damage?

In addition to the STAPLEE process, each action item was also reviewed for Benefit/Cost. These two aspects of the prioritization process were scored as follows:

Benefit – two (2) points were added for each of the following avoided damages (8 points maximum = highest benefit)

- Injuries and/or casualties
- Property damages
- Loss-of-function/displacement impacts
- Emergency management costs/community costs

Cost – points were subtracted according to the following cost scale (-5 points maximum = highest cost)

- (-1) = Minimal – little cost to the jurisdiction involved
- (-3) = Moderate – definite cost involved but could likely be worked into operating budget
- (-5) = Significant – cost above and beyond most operating budgets; would require extra appropriations to finance or to meet matching funds for a grant

In addition, the group considered the cost of mitigation versus the long-term savings in relation to potential lives saved and property damage avoided.

Total Score – The scores for the STAPLEE Review and Benefit/Cost Review were added to determine a Total Score for each action.

Priority Scale – To achieve an understanding of how a Total Score might be translated into a Priority Rating, a sample matrix was filled out for the possible range of ratings an action might receive on both the STAPLEE and Benefit/Cost Review. The possible ratings tested ranged between:

- A hypothetical action with “Half probably NO and half maybe YES” answers on STAPLEE (i.e. poor STAPLEE score) and Low Benefit/High Cost: Total Score = 7
- A hypothetical action with “All definitely YES” on STAPLEE and High Benefit/Little Cost: Total Score = 28

An inspection of the possible scores within this range led to the development of the following Priority Scale based on the Total Score in the STAPLEE- Benefit/Cost Review process:

20 – 28 points = High Priority
 14-19 points = Medium Priority
 13 points and below = Low Priority

The results of the STAPLEE process and Benefit/Cost analysis were then mailed out to all MPC members for feedback and consensus.

The final scores are listed below in the analysis of each action. A spreadsheet with the action items and final scores is illustrated in **Figure 4.1**.

Jurisdictional Floodplain Management Programs

Maries County and the City of Vienna are members of the NFIP and regulate development in the floodplain by reviewing permit applications for all development including new and existing structures. Elevation certificates are required for all new construction, and existing structures with 50% or more damage following a flood are required to elevate. Floodplain maps are available in hard copy at the city hall and the county’s flood maps can be obtained from the floodplain coordinator - MRPC. Furthermore, floodplain maps can be found online through FEMA’s website <https://msc.fema.gov/portal>.

Table 4.1. Jurisdictional Floodplain Ordinance Adoption Date

Community Name	Ordinance Adoption Date
Maries County	07/01/1987
Vienna	11/01/1979

Source: FEMA’s Community Status Book Report¹; NSFHA (SEMA)

¹ www.fema.gov/cis/mo.html

Figure 4.4 Prioritization of Mitigation Actions		3 = Def YES 1 = Prob NO 2 = Maybe YES 0 = Def NO													
		S	T	A	P	L	E	E	STAPLEE Total	Losses Avoided (2 pts. Each)	Benefit	Cost	B/C Total	Total	Priority
Action No.	Mitigation Actions														
1.1.5 1.1	Local Fire Departments and Emergency Management Director will provide CERT training and distribute information on the benefits of the CERT and VOAD programs.	2	2	2	2	3	2	2	15	IC, PD,	4	-1	3	18	M
1.2.1 1.2	Obtain/upgrade early warning systems and improved communication systems as funding allows.	3	3	2	3	3	1	3	18	IC, PD, LF, EMCC	8	-3	5	23	H
1.3.4 1.3	Construct storm shelters or tornado safe rooms near schools and large employment centers as funding allows.	3	3	2	3	3	1	3	18	IC, LF, EMCC	6	-5	1	19	M
3.4.1 1.4	County health department will implement publicity campaigns that make residents aware of proper measures to take during times of threatening conditions (e.g. drought, heat wave)	3	3	2	3	3	2	3	19	IC, PD, LF, EMCC	8	-1	7	26	H
5.2.2 1.5	Annually assess public and private locations as potential shelters from storms or extreme temperatures; designate suitable shelters, establish MOU's , and develop accessibility plans for the public during times of need.	3	3	2	2	3	3	3	19	IC, EMCC	4	-1	3	22	H
1.6	Distribute information on dam safety and self-inspection programs to all dam owners, explore funding opportunities for dam repair.	3	2	2	1	3	3	2	16	IC, PD, EMCC	6	-1	5	21	H
1.3.2 2.1	Upgrade roads and bridges that would improve drainage, reduce flooding, and reduce the risk to residents and property as funding allows.	3	3	2	3	3	2	2	18	IC, PD, LF, EMCC	8	-1	7	25	H
2.2.1 2.2	Distribute FEMA brochures and factsheets about the National Flood Insurance Program (NFIP) at public offices and community events.	2	3	3	2	3	2	3	18	IC, PD, LF, EMCC	8	-1	7	25	H
2.3.2 2.3	Update floodplain management ordinances to implement regulations to securely attach manufactured homes and fuel tanks to an adequately anchored foundation system to resist floatation, collapse, and lateral movement.	2	2	2	1	2	2	2	13	IC, PD, EMCC	8	-3	5	18	M
2.3.3 2.4	Continue to enforce flood damage prevention/floodplain management ordinances in compliance with NFIP requirements.	3	2	2	2	3	3	3	18	IC, PD, LF, EMCC	8	-3	5	23	H

Figure 4.4 Prioritization of Mitigation Actions		3 = Def YES 1 = Prob NO 2 = Maybe YES 0 = Def NO													
Action No.	Mitigation Actions	S	T	A	P	L	E	E	STAPLEE Total	Losses Avoided (2 pts. Each)	Benefit	Cost	B/C Total	Total	Priority
3.3.2 2.5	Local governments and school districts will distribute press releases, brochures, and digital content on the benefits of hazard mitigation projects and adopted mitigation efforts to help the public stay abreast of changes and/or new regulations.	3	3	2	3	3	2	3	19	IC, PD, LF, EMCC	8	-1	7	26	H
5.3.1 2.6	Purchase properties in the floodplain to convert land into public space/recreation area as funding allows.	2	2	2	2	3	1	3	15	IC, PD, LF, EMCC	8	-5	3	18	M
6.2.1 2.7	Cities and counties will implement cost-share programs with private property owners for hazard mitigation projects that benefit the jurisdiction as a whole.	2	1	1	1	2	2	2	11	IC, PD, LF, EMCC	8	-5	3	14	M
2.8	Purchase appropriately sized generators for all critical facilities in the planning area as funding allows.	3	3	3	3	3	2	3	20	LF, EMCC	4	-3	1	21	H
2.9	Assist in the formation and training of a prescribed burn association to reduce the incidence of wildfire.	3	2	2	3	3	3	2	18	IC, PD, LF, EMCC	8	-2	6	24	H
1.1.4 3.1	Distribute materials to local businesses, governments, and schools to assist in the creation and update of emergency operations plans.	3	2	2	3	3	2	3	18	IC, PD, LF, EMCC	8	-3	5	23	H
2.1.1 3.2	Distribute information to critical facilities on the benefits of building infrastructure improvements to lessen the potential impacts of natural disasters.	2	2	2	2	2	1	3	14	IC, PD, LF, EMCC	8	-5	3	17	M
3.2.2 3.3	Organize an annual meeting between EMD's, city/county/school officials, and SEMA to familiarize officials with mitigation planning, implementation, budgeting, and to facilitate coordination of mitigation efforts in the planning area.	2	2	2	2	2	2	2	14	IC, PD, LF, EMCC	8	-3	5	19	M
3.4	City of Vienna will research options to reduce its wastewater facility's vulnerability to flood events.	3	2	3	3	3	2	3	19	PD, LF, EMCC	6	-5	1	20	H

During this plan update, the goals were revised to remove redundancies and better represent the objectives of the planning area. This required us to revise the numbering conventions for action items included in the previous plan update. In the table above, action numbers in red denote the revised action number for continuing actions.

Maries County

Goal 1: Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.

Action 1.1: Local Fire Departments and Emergency Management Director will provide CERT training and distribute information on the benefits of the CERT and VOAD programs.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with the lack of CERT or VOAD programs in the county
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.1
Name of Action or Project:	CERT training and awareness program for CERT and VOADs.
Action or Project Description:	Local Fire Departments and Emergency Management Director will provide CERT training and distribute information on the benefits of the CERT and VOAD programs.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$1,000 - \$1,500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD and Local Fire Departments
Action/Project Priority:	18 – Medium Priority
Timeline for Completion:	1 – 5 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	Continuing - revised
Report of Progress	There was a CERT program in Maries County in the past. However, the pandemic resulted in the discontinuation of training and meetings of this group. The program would benefit from holding additional CERT trainings and an organized approach to distributing information CERT and VOAD.

Action 1.2: Obtain/upgrade early warning systems and improved communication systems as funding allows.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with lack of early warning systems and communications systems in unincorporated areas.
Hazard(s) Addressed:	All hazards.
Action or Project	
Action/Project Number:	1.2
Name of Action or Project:	Improving early warning and communications capabilities.
Action or Project Description:	Maries County Commission needs to budget for enhanced warning and communications systems to improve early warning capabilities for residents in Maries County.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, Local Planners, Local Emergency Response Agencies
Action/Project Priority:	23 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOPs, County Budget
Progress Report	
Action Status	Continuing and revised – in progress
Report of Progress	Both local school districts have texting/phone/email systems in place to contact parents. Both Belle and Vienna have one warning siren each. There are no warning sirens located in unincorporated areas of the county. The county is currently working to acquire a county wide text-based notification system.

Action 1.3: Construct storm shelters or tornado safe rooms near schools and large employment centers as funding allows.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with schools and large employer facilities that do not have certified tornado safe rooms and use alternative facilities to shelter students, staff, and employees in the event of high winds/tornadoes.
Hazard(s) Addressed:	Severe Storms and Tornadoes
Action or Project	
Action/Project Number:	1.3
Name of Action or Project:	Encourage construction of certified tornado safe rooms and storm shelters in high population areas
Action or Project Description:	Disseminate information on the importance of and funding sources for constructing storm shelters, especially certified tornado safe rooms near schools and large employment centers that currently do not have access to safe rooms.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County Commission and EMD
Action/Project Priority:	19 – Medium Priority
Timeline for Completion:	On-going until facilities are constructed
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOPs, School Emergency Plan
Progress Report	
Action Status	Revised – no progress
Report of Progress	No progress at this time. The cost of constructing certified tornado shelters is an obstacle and neither school district nor any large manufacturers currently has plans to expand/build which would provide an opportunity to incorporate a certified tornado safe room into the plans.

Action 1.4: County health department will implement publicity campaigns that make residents aware of proper measures to take during times of threatening conditions (e.g. drought, heat wave, extreme cold).

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Lack of knowledge by the general public of proper measures to take during times of threatening conditions.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.4
Name of Action or Project:	Public education
Action or Project Description:	County health department will implement publicity campaigns that make residents aware of proper measures to take during times of threatening conditions (e.g. drought, heat wave, extreme cold).
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$500 - \$2,000
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, Phelps-Maries County Health Department
Action/Project Priority:	26 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Local general revenue funds, private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	Revised – on-going
Report of Progress	The health department currently works to increase awareness of the proper measures to take during times of threatening conditions such as heat waves and extreme cold through the distribution of brochures and social media postings. This is an on-going activity.

Action 1.5: Annually assess public and private locations as potential shelters from storms, or extreme temperatures, designate suitable shelters, establish MOU's, and develop accessibility plans for the public during times of need.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with the lack of adequate natural hazard shelters.
Hazard(s) Addressed:	Tornadoes, severe storms, extreme weather
Action or Project	
Action/Project Number:	1.5
Name of Action or Project:	Assessment of locations as potential public shelters, designation of suitable facilities and development of accessibility plans
Action or Project Description:	Encourage the assessment of locations as potential emergency shelters; designate those that are suitable as safe shelters; and develop accessibility plans for the public during times of need.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD
Action/Project Priority:	22 – High Priority
Timeline for Completion:	Annually
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	Revised – in progress
Report of Progress	The county EMD has made some progress on this action item. Two shelters have been designated – the county courthouse in Vienna and the Masonic Lodge in Belle. Accessibility plans are in place for these two locations, and both have shelter supplies. The county would benefit from having more detailed assessments done and additional shelters designated.

Action 1.6: Distribute information on dam safety and self-inspection programs to all dam owners, explore funding opportunities for dam repair.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Aging dams that could be in need of repair or replacement
Hazard(s) Addressed:	Dam Failure
Action or Project	
Action/Project Number:	1.6
Name of Action or Project:	Dam Safety Outreach.
Action or Project Description:	Distribute information on dam safety and self-inspection programs to all dam owners, explore funding opportunities for dam repair.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$1,000 - \$1,500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD and Local Fire Departments
Action/Project Priority:	21– High Priority
Timeline for Completion:	1 – 5 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP, Dam Emergency Action Plans
Progress Report	
Action Status	New
Report of Progress	N/A

Goal 2: Reduce the potential impact of natural disasters on new and existing properties, infrastructure, and the local economy.

Action 2.1: Upgrade roads and bridges that would improve drainage, reduce flooding, and reduce the risk to residents and property as funding allows.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with poor road infrastructure, including bridges and low water crossings, during flood and earthquake events.
Hazard(s) Addressed:	Floods and Earthquake
Action or Project	
Action/Project Number:	2.1
Name of Action or Project:	Review road and bridge upgrades for potential mitigation actions
Action or Project Description:	Examine potential road and bridge upgrades and seek out sources of funding that would improve drainage, reduce flooding, and the risk to residents and property.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties, infrastructure, and the local economy.
Estimated Cost:	\$1,000 - \$10,000
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County Commission, Road & Bridge Dept., Local Planners
Action/Project Priority:	25 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, County Budget
Progress Report	
Action Status	Revised and in progress
Report of Progress	The county has a policy to upgrade and improve all road and bridge projects where possible. Improvements since the last update include the replacement of metal culverts on Maries Road 619 and Maries Road 621 with new concrete box culverts.

Action 2.2: Distribute FEMA brochures and factsheets about the National Flood Insurance Program (NFIP) at public offices and community events.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities of properties in the floodplain during a flood event.
Hazard(s) Addressed:	Flood
Action or Project	
Action/Project Number:	2.2
Name of Action or Project:	Flood insurance education/awareness
Action or Project Description:	Educate residents about the dangers of floodplain development and the benefits of the NFIP
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties, infrastructure, and the local economy.
Estimated Cost:	\$250 - \$500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Floodplain Manager, Floodplain Coordinator, Maries County Commission
Action/Project Priority:	25 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, or services
Local Planning Mechanisms to be Used in Implementation, if any:	Floodplain management ordinances, LEOP
Progress Report	
Action Status	Revised - in Progress
Report of Progress	Information, brochures, etc. on floodplain development and the NFIP is available through the floodplain manager and floodplain coordinator for the county. Brochures have been made available at the courthouse. Press releases are done annually. This is a program that requires on-going activity as people move in and out of the county.

Action 2.3: Update floodplain management ordinances to implement regulations to securely attach mobile homes and fuel tanks to an adequately anchored foundation system to resist floatation, collapse, and lateral movement.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with unsecured hazardous materials tanks, and mobile homes during flood, severe weather, or tornado events.
Hazard(s) Addressed:	Flood, Severe Weather, Tornado
Action or Project	
Action/Project Number:	2.3
Name of Action or Project:	Update floodplain management ordinances to implement regulations to securely attach mobile homes and fuel tanks to an adequately anchored foundation system to resist floatation, collapse, and lateral movement.
Action or Project Description:	Encourage local governments to develop and implement regulations and/or ordinances for securing hazardous materials, tanks, and mobile homes to reduce hazards during storms, flooding, and high winds.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties, infrastructure, and the local economy.
Estimated Cost:	\$100
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, Floodplain Manager, County Commission
Action/Project Priority:	18 – Medium Priority
Timeline for Completion:	1 years
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, and services
Local Planning Mechanisms to be Used in Implementation, if any:	County ordinances, builder's plans, LEOP, floodplain ordinances
Progress Report	
Action Status	Revised - Not Started
Report of Progress	N/A

Action 2.4: Continue to enforce flood damage prevention/floodplain management ordinances in compliance with NFIP requirements.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with flooding and unregulated floodplain development.
Hazard(s) Addressed:	Flood, Severe Weather
Action or Project	
Action/Project Number:	2.4
Name of Action or Project:	Floodplain management compliance enforcement.
Action or Project Description:	Continue to enforce flood damage prevention/floodplain management ordinances in compliance with NFIP requirements.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$4,000 - \$10,000
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Floodplain Manager, Floodplain Coordinator, Maries County Commission
Action/Project Priority:	23 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, or services
Local Planning Mechanisms to be Used in Implementation, if any:	Floodplain ordinances
Progress Report	
Action Status	Continuing in Progress
Report of Progress	Maries County continues to ensure compliance with its floodplain ordinance by requiring floodplain development permits, carrying out inspections of floodplain properties, distributing press releases on NFIP and floodplain ordinance requirements annually and distributing brochures.

Action 2.5: Local governments and school districts will distribute press releases, brochures, and digital content on the benefits of hazard mitigation projects and adopted mitigation efforts to help the public stay abreast of changes and/or new regulations.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of awareness of what hazard mitigation is, what local jurisdictions are doing on hazard mitigation and how individuals can benefit from hazard mitigation projects.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	2.5
Name of Action or Project:	Hazard Mitigation Awareness Program
Action or Project Description:	Local governments and school districts will distribute press releases, brochures, and digital content on the benefits of hazard mitigation projects and adopted mitigation efforts to help the public stay abreast of changes and/or new regulations.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$1,500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, local emergency response agencies, MPC
Action/Project Priority:	26 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Local general revenue funds, private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	Revised – on-going
Report of Progress	Local media outlets report on county road and bridge projects and the benefits of the improvements made. The county health department provides information on how to mitigate potential health problems during periods of extreme temperatures. Progress is being made but this is an on-going program.

Action 2.6: Purchase properties in the floodplain to convert land into public space/recreation area as funding allows.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with floodplain properties
Hazard(s) Addressed:	Flood
Action or Project	
Action/Project Number:	2.6
Name of Action or Project:	Government purchase of properties in the floodplain
Action or Project Description:	Purchase properties in the floodplain to convert land into public space/recreation area as funding allows.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include property damage, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County Commission, County EMD, Floodplain Manager/Coordinator
Action/Project Priority:	18 - M
Timeline for Completion:	N/A
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, or services
Local Planning Mechanisms to be Used in Implementation, if any:	Floodplain ordinances, Hazard Mitigation Plan
Progress Report	
Action Status	Revised – no progress
Report of Progress	N/A

Action 2.7: Cities and counties will implement cost-share programs with private property owners for hazard mitigation projects that benefit the jurisdiction as a whole.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Lack of funding for mitigation projects for individuals
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	2.7
Name of Action or Project:	Cities and counties will implement cost-share programs with private property owners for hazard mitigation projects that benefit the jurisdiction as a whole.
Action or Project Description:	Provide information on the benefits of local governments implementing cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole
Applicable Goal Statement:	Secure resources for investment in hazard mitigation.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, County Commission
Action/Project Priority:	14 – Medium Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, County Budget
Progress Report	
Action Status	Continuing in progress
Report of Progress	Progress is being made in this area. Maries County Road and Bridge works with landowners and cost-shares the installation of culverts on private driveways.

Action 2.8: Purchase appropriately sized generators for all critical facilities in the planning area as funding allows.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with power outages for critical infrastructure/facilities
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	2.8
Name of Action or Project:	Acquisition and installation of backup generators for critical infrastructure.
Action or Project Description:	Purchase appropriately sized generators for all critical facilities in the planning area as funding allows.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$25,500 – \$100,000
Benefits:	Losses avoided by implementing this action include loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, County Commission
Action/Project Priority:	21 –High Priority
Timeline for Completion:	5 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	LEOP, County Budget, Hazard Mitigation Plan, Critical Facility Budgets
Progress Report	
Action Status	Revised – in progress
Report of Progress	The county has two portable generators available. There is a generator for the Sheriff’s department and one for the courthouse as well, however the courthouse generator is over 20 years old and is no longer fully operational, nor is it upgradable. The County would like to replace it.

Action 2.9: Assist in the formation and training of a prescribed burn association to reduce the incidence of wildfire.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities of properties during a wildfire event
Hazard(s) Addressed:	Wildfire
Action or Project	
Action/Project Number:	2.9
Name of Action or Project:	Formation of a Prescribe Burn Association
Action or Project Description:	Assist in the formation and training of a prescribed burn association to reduce the incidence of wildfire.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties, infrastructure, and the local economy.
Estimated Cost:	\$250 - \$500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Emergency Management Directors, Fire Departments
Action/Project Priority:	26 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, or services
Local Planning Mechanisms to be Used in Implementation, if any:	County Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	New
Report of Progress	

Goal 3: Reduce the potential impact of natural disasters on the continuity of government and essential services.

Action 3.1: Distribute materials to businesses, local governments, and schools to assist in the creation and update of emergency operations plans.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Lack of emergency plans by businesses, local government units and schools.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	3.1
Name of Action or Project:	Development of emergency plans by businesses, local government units and schools.
Action or Project Description:	Promote development of emergency plans by businesses and public entities by providing information on business continuity and emergency planning through local chambers of commerce and emergency management offices.
Applicable Goal Statement:	Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities.
Estimated Cost:	\$4,500 - \$5,500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD,
Action/Project Priority:	23 – High Priority
Timeline for Completion:	1 – 5 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, Meramec Region Community Economic Development Strategy (CEDS) – includes Chapter 8 – Economic Recovery and Resiliency Strategy
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The planning area has a county-wide LEOP. Maries Manor, a local nursing home; Phelps Health Clinic; Hippos, LLC, a cultivation facility; and the Maries County Bank have all developed emergency operation plans.

Action 3.2: Distribute information to critical facilities on the benefits of building infrastructure improvements to lessen the potential impacts of natural disasters.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with construction of critical facilities which may make them vulnerable to earthquakes and tornadoes
Hazard(s) Addressed:	Earthquakes and Tornadoes
Action or Project	
Action/Project Number:	3.2
Name of Action or Project:	Distribute information to critical facilities on the benefits of building infrastructure improvements to lessen the potential impacts of natural disasters.
Action or Project Description:	Distribute information to critical facilities on the benefits of building infrastructure improvements to lessen the potential impacts of natural disasters.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$1,500 – \$5,000
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damage, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, local emergency response agencies
Action/Project Priority:	17 – Medium Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	LEOP, County Budget, Hazard Mitigation Plan, Critical Facility Budgets
Progress Report	
Action Status	Continuing – no progress
Report of Progress	The county EMD periodically does safety walk-throughs of facilities in the county upon request. Those inspections have not typically included structural resistance to earthquake or tornado in the past. EMD will begin distributing information about the NOAA ambassador program that evaluates tornado safety at no cost to the facility.

Action 3.3: Organize an annual meeting between EMD's, city/county/school officials, and SEMA to familiarize officials with mitigation planning, implementation, budgeting, and to facilitate coordination of mitigation efforts in the planning area.

Action Worksheet	
Name of Jurisdiction:	Maries County
Risk / Vulnerability	
Problem being Mitigated:	Lack of knowledge/information of officials in regard to mitigation planning, implementation, and budgeting for mitigation projects.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	3.3
Name of Action or Project:	Mitigation awareness/education meetings with local officials and SEMA
Action or Project Description:	Organize an annual meeting between EMD's, city/county/school officials, and SEMA to familiarize officials with mitigation planning, implementation, budgeting, and to facilitate coordination of mitigation efforts in the planning area.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$100
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, County Commission, SEMA Area Coordinator
Action/Project Priority:	19 - M
Timeline for Completion:	On-going
Potential Fund Sources:	N/A
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan
Progress Report	
Action Status	Continuing - Ongoing
Report of Progress	The Region I SEMA area coordinator holds quarterly meetings in the region and discussions include a variety of topics, including mitigation. MRPC has provided information and presentations on mitigation at regular board meetings that included representatives from Maries County and its jurisdictions. Due to changes in elected officials, this is an ongoing activity.

Belle

Goal 1: Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.

Action 1.1: Local Fire Departments and Emergency Management Director will provide CERT training and distribute information on the benefits of the CERT and VOAD programs.

Action Worksheet	
Name of Jurisdiction:	City of Belle
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with the lack of CERT or VOAD programs in the county
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.1
Name of Action or Project:	CERT training and awareness program for CERT and VOADs.
Action or Project Description:	Local Fire Departments and Emergency Management Director will provide CERT training and distribute information on the benefits of the CERT and VOAD programs.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$1,000 - \$1,500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD and Local Fire Departments
Action/Project Priority:	18 – Medium Priority
Timeline for Completion:	1 – 5 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	Continuing - revised
Report of Progress	There was a CERT program in Maries County in the past. However, the pandemic resulted in the discontinuation of training and meetings of this group. The program would benefit from holding additional CERT trainings and an organized approach to distributing information on CERT and VOAD.

Action 1.2: Obtain/upgrade early warning systems and improved communication systems as funding allows.

Action Worksheet	
Name of Jurisdiction:	City of Belle
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with lack of early warning systems and communications systems in unincorporated areas.
Hazard(s) Addressed:	All hazards.
Action or Project	
Action/Project Number:	1.2
Name of Action or Project:	Improving early warning and communications capabilities.
Action or Project Description:	Belle City Council needs to budget for enhanced warning and communications systems to improve early warning capabilities for residents in the city of Belle.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, Local Planners, Local Emergency Response Agencies
Action/Project Priority:	23 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOPs, County Budget
Progress Report	
Action Status	Continuing and revised – in progress
Report of Progress	Belle has one warning siren operated by the EMD and the Belle Fire Protection District.

Action 1.3: Construct storm shelters or tornado safe rooms near schools and large employment centers as funding allows.

Action Worksheet	
Name of Jurisdiction:	City of Belle
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with schools and large employer facilities that do not have certified tornado safe rooms and use alternative facilities to shelter students, staff, and employees in the event of high winds/tornadoes.
Hazard(s) Addressed:	Severe Storms and Tornadoes
Action or Project	
Action/Project Number:	1.3
Name of Action or Project:	Encourage construction of certified tornado safe rooms and storm shelters in high population areas
Action or Project Description:	Disseminate information on the importance of and funding sources for constructing storm shelters, especially certified tornado safe rooms near schools and large employment centers that currently do not have access to safe rooms.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County Commission and EMD
Action/Project Priority:	19 – Medium Priority
Timeline for Completion:	On-going until facilities are constructed
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOPs, School Emergency Plan
Progress Report	
Action Status	Revised – no progress
Report of Progress	No progress at this time. The cost of constructing certified tornado shelters is an obstacle. The city is unaware of any large manufacturers currently that has plans to expand/build which would provide an opportunity to incorporate a certified tornado safe room into the plans.

Action 1.4: County health department will implement publicity campaigns that make residents aware of proper measures to take during times of threatening conditions (e.g. drought, heat wave, extreme cold).

Action Worksheet	
Name of Jurisdiction:	City of Belle
Risk / Vulnerability	
Problem being Mitigated:	Lack of knowledge by the general public of proper measures to take during times of threatening conditions.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.4
Name of Action or Project:	Public education
Action or Project Description:	County health department will implement publicity campaigns that make residents aware of proper measures to take during times of threatening conditions (e.g. drought, heat wave, extreme cold).
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$500 - \$2,000
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, Phelps-Maries County Health Department
Action/Project Priority:	26 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Local general revenue funds, private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	Revised – on-going
Report of Progress	The health department currently works to increase awareness of the proper measures to take during times of threatening conditions such as heat waves and extreme cold through the distribution of brochures and social media postings. This is an on-going activity.

Action 1.5: Annually assess public and private locations as potential shelters from storms, or extreme temperatures, designate suitable shelters, establish MOU's, and develop accessibility plans for the public during times of need.

Action Worksheet	
Name of Jurisdiction:	City of Belle
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with the lack of adequate natural hazard shelters.
Hazard(s) Addressed:	Tornadoes, severe thunderstorms, extreme temperature, severe winter weather
Action or Project	
Action/Project Number:	1.5
Name of Action or Project:	Assessment of locations as potential public shelters, designation of suitable facilities and development of accessibility plans
Action or Project Description:	Encourage the assessment of locations as potential emergency shelters; designate those that are suitable as safe shelters; and develop accessibility plans for the public during times of need.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD
Action/Project Priority:	22 – High Priority
Timeline for Completion:	Annually
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	Revised – in progress
Report of Progress	The county EMD has established shelters at the Masonic Lodge in Belle. The shelter is opened each time the tornado sirens are activated and is stocked with supplies. It also serves as an evacuation shelter. The Belle Fire Protection District Station is utilized as a warming/cooling shelter as needed.

Action 1.6: Distribute information on dam safety and self-inspection programs to all dam owners, explore funding opportunities for dam repair.

Action Worksheet	
Name of Jurisdiction:	City of Belle
Risk / Vulnerability	
Problem being Mitigated:	Aging dams that could be in need of repair or replacement
Hazard(s) Addressed:	Dam Failure
Action or Project	
Action/Project Number:	1.6
Name of Action or Project:	Dam Safety Outreach.
Action or Project Description:	Distribute information on dam safety and self-inspection programs to all dam owners, explore funding opportunities for dam repair.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$1,000 - \$1,500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD and Local Fire Departments
Action/Project Priority:	21– High Priority
Timeline for Completion:	1 – 5 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP, Dam Emergency Action Plans
Progress Report	
Action Status	New
Report of Progress	N/A

Goal 2: Reduce the potential impact of natural disasters on new and existing properties, infrastructure, and the local economy.

Action 2.1: Upgrade roads and bridges that would improve drainage, reduce flooding, and reduce the risk to residents and property as funding allows.

Action Worksheet	
Name of Jurisdiction:	City of Belle
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with poor road infrastructure, including bridges and low water crossings, during flood and earthquake events.
Hazard(s) Addressed:	Floods and Earthquake
Action or Project	
Action/Project Number:	2.1
Name of Action or Project:	Review road and bridge upgrades for potential mitigation actions
Action or Project Description:	Examine potential road and bridge upgrades and seek out sources of funding that would improve drainage, reduce flooding, and the risk to residents and property.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties, infrastructure, and the local economy.
Estimated Cost:	\$1,000 - \$10,000
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County Commission, Road & Bridge Dept., Local Planners
Action/Project Priority:	25 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, County Budget
Progress Report	
Action Status	Revised and in progress
Report of Progress	The city reviews each street project to determine if it would benefit from enlarging culverts to improve drainage.

Action 2.5: Local governments and school districts will distribute press releases, brochures, and digital content on the benefits of hazard mitigation projects and adopted mitigation efforts to help the public stay abreast of changes and/or new regulations.

Action Worksheet	
Name of Jurisdiction:	City of Belle
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of awareness of what hazard mitigation is, what local jurisdictions are doing on hazard mitigation and how individuals can benefit from hazard mitigation projects.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	2.5
Name of Action or Project:	Hazard Mitigation Awareness Program
Action or Project Description:	Local governments and school districts will distribute press releases, brochures, and digital content on the benefits of hazard mitigation projects and adopted mitigation efforts to help the public stay abreast of changes and/or new regulations.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$1,500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, local emergency response agencies, MPC
Action/Project Priority:	26 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Local general revenue funds, private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	Revised – on-going
Report of Progress	Local media outlets report on county road and bridge projects and the benefits of the improvements made. The county health department provides information on how to mitigate potential health problems during periods of extreme temperatures. Progress is being made but this is an on-going program.

Action 2.7: Cities and counties will implement cost-share programs with private property owners for hazard mitigation projects that benefit the jurisdiction as a whole.

Action Worksheet	
Name of Jurisdiction:	City of Belle
Risk / Vulnerability	
Problem being Mitigated:	Lack of funding for mitigation projects for individuals
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	2.7
Name of Action or Project:	Cities and counties will implement cost-share programs with private property owners for hazard mitigation projects that benefit the jurisdiction as a whole.
Action or Project Description:	Provide information on the benefits of local governments implementing cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole
Applicable Goal Statement:	Secure resources for investment in hazard mitigation.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, County Commission
Action/Project Priority:	14 – Medium Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, County Budget
Progress Report	
Action Status	Continuing in progress
Report of Progress	No progress

Action 2.8: Purchase appropriately sized generators for all critical facilities in the planning area as funding allows.

Action Worksheet	
Name of Jurisdiction:	City of Belle
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with power outages for critical infrastructure/facilities
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	2.8
Name of Action or Project:	Acquisition and installation of backup generators for critical infrastructure.
Action or Project Description:	Purchase appropriately sized generators for all critical facilities in the planning area as funding allows.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$25,500 – \$100,000
Benefits:	Losses avoided by implementing this action include loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, County Commission
Action/Project Priority:	21 –High Priority
Timeline for Completion:	5 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	LEOP, County Budget, Hazard Mitigation Plan, Critical Facility Budgets
Progress Report	
Action Status	Revised – in progress
Report of Progress	The city of Belle has two fixed generators: one servicing the Fire Station and the other at the wastewater treatment facility.

Action 2.9: Assist in the formation and training of a prescribed burn association to reduce the incidence of wildfire.

Action Worksheet	
Name of Jurisdiction:	City of Belle
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities of properties during a wildfire event
Hazard(s) Addressed:	Wildfire
Action or Project	
Action/Project Number:	2.9
Name of Action or Project:	Formation of a Prescribe Burn Association
Action or Project Description:	Assist in the formation and training of a prescribed burn association to reduce the incidence of wildfire.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties, infrastructure, and the local economy.
Estimated Cost:	\$250 - \$500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Emergency Management Directors, Fire Departments
Action/Project Priority:	26 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, or services
Local Planning Mechanisms to be Used in Implementation, if any:	County Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	New
Report of Progress	N/A

Goal 3: Reduce the potential impact of natural disasters on the continuity of government and essential services.

Action 3.1: Distribute materials to businesses, local governments, and schools to assist in the creation and update of emergency operations plans.

Action Worksheet	
Name of Jurisdiction:	City of Belle
Risk / Vulnerability	
Problem being Mitigated:	Lack of emergency plans by businesses, local government units and schools.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	3.1
Name of Action or Project:	Development of emergency plans by businesses, local government units and schools.
Action or Project Description:	Promote development of emergency plans by businesses and public entities by providing information on business continuity and emergency planning through local chambers of commerce and emergency management offices.
Applicable Goal Statement:	Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities.
Estimated Cost:	\$4,500 - \$5,500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD,
Action/Project Priority:	23 – High Priority
Timeline for Completion:	1 – 5 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, Meramec Region Community Economic Development Strategy (CEDS) – includes Chapter 8 – Economic Recovery and Resiliency Strategy
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The planning area has a county-wide LEOP. Maries Manor, a local nursing home; Phelps Health Clinic; Hippos, LLC, a cultivation facility; and the Maries County Bank have all developed emergency operation plans.

Action 3.2: Distribute information to critical facilities on the benefits of building infrastructure improvements to lessen the potential impacts of natural disasters.

Action Worksheet	
Name of Jurisdiction:	City of Belle
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with construction of critical facilities which may make them vulnerable to earthquakes and tornadoes
Hazard(s) Addressed:	Earthquakes and Tornadoes
Action or Project	
Action/Project Number:	3.2
Name of Action or Project:	Distribute information to critical facilities on the benefits of building infrastructure improvements to lessen the potential impacts of natural disasters.
Action or Project Description:	Distribute information to critical facilities on the benefits of building infrastructure improvements to lessen the potential impacts of natural disasters.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$1,500 – \$5,000
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damage, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, local emergency response agencies
Action/Project Priority:	17 – Medium Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	LEOP, County Budget, Hazard Mitigation Plan, Critical Facility Budgets
Progress Report	
Action Status	Continuing – no progress
Report of Progress	The county EMD periodically does safety walk-throughs of facilities in the county upon request. Those inspections have not typically included structural resistance to earthquake or tornado in the past. EMD will begin distributing information about the NOAA ambassador program that evaluates tornado safety at no cost to the facility.

Action 3.3: Organize an annual meeting between EMD's, city/county/school officials, and SEMA to familiarize officials with mitigation planning, implementation, budgeting, and to facilitate coordination of mitigation efforts in the planning area.

Action Worksheet	
Name of Jurisdiction:	City of Belle
Risk / Vulnerability	
Problem being Mitigated:	Lack of knowledge/information of officials in regard to mitigation planning, implementation, and budgeting for mitigation projects.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	3.3
Name of Action or Project:	Mitigation awareness/education meetings with local officials and SEMA
Action or Project Description:	Organize an annual meeting between EMD's, city/county/school officials, and SEMA to familiarize officials with mitigation planning, implementation, budgeting, and to facilitate coordination of mitigation efforts in the planning area.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$100
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, County Commission, SEMA Area Coordinator
Action/Project Priority:	19 - M
Timeline for Completion:	On-going
Potential Fund Sources:	N/A
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan
Progress Report	
Action Status	Continuing - Ongoing
Report of Progress	The Region I SEMA area coordinator holds quarterly meetings in the region and discussions include a variety of topics, including mitigation. MRPC has provided information and presentations on mitigation at regular board meetings that included representatives from the city of Belle. Due to changes in elected officials, this is an ongoing activity.

Vienna

Goal 1: Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.

Action 1.1: Local Fire Departments and Emergency Management Director will provide CERT training and distribute information on the benefits of the CERT and VOAD programs.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with the lack of CERT or VOAD programs in the county
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.1
Name of Action or Project:	CERT training and awareness program for CERT and VOADs.
Action or Project Description:	Local Fire Departments and Emergency Management Director will provide CERT training and distribute information on the benefits of the CERT and VOAD programs.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$1,000 - \$1,500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD and Local Fire Departments
Action/Project Priority:	18 – Medium Priority
Timeline for Completion:	1 – 5 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	Continuing - revised
Report of Progress	There was a CERT program in Maries County in the past. However, the pandemic resulted in the discontinuation of training and meetings of this group. The program would benefit from holding additional CERT trainings and an organized approach to distributing information CERT and VOAD.

Action 1.2: Obtain/upgrade early warning systems and improved communication systems as funding allows.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with lack of early warning systems and communications systems in unincorporated areas.
Hazard(s) Addressed:	All hazards.
Action or Project	
Action/Project Number:	1.2
Name of Action or Project:	Improving early warning and communications capabilities.
Action or Project Description:	Maries County Commission needs to budget for enhanced warning and communications systems to improve early warning capabilities for residents in Maries County.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, Local Planners, Local Emergency Response Agencies
Action/Project Priority:	23 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOPs, County Budget
Progress Report	
Action Status	Continuing and revised – in progress
Report of Progress	Vienna has one warning siren.

Action 1.3: Construct storm shelters or tornado safe rooms near schools and large employment centers as funding allows.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with schools and large employer facilities that do not have certified tornado safe rooms and use alternative facilities to shelter students, staff, and employees in the event of high winds/tornadoes.
Hazard(s) Addressed:	Severe Storms and Tornadoes
Action or Project	
Action/Project Number:	1.3
Name of Action or Project:	Encourage construction of certified tornado safe rooms and storm shelters in high population areas
Action or Project Description:	Disseminate information on the importance of and funding sources for constructing storm shelters, especially certified tornado safe rooms near schools and large employment centers that currently do not have access to safe rooms.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County Commission and EMD
Action/Project Priority:	19 – Medium Priority
Timeline for Completion:	On-going until facilities are constructed
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOPs, School Emergency Plan
Progress Report	
Action Status	Revised – no progress
Report of Progress	No progress at this time. The cost of constructing certified tornado shelters is an obstacle and neither school district nor any large manufacturers currently has plans to expand/build which would provide an opportunity to incorporate a certified tornado safe room into the plans.

Action 1.4: County health department will implement publicity campaigns that make residents aware of proper measures to take during times of threatening conditions (e.g. drought, heat wave, extreme cold).

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Lack of knowledge by the general public of proper measures to take during times of threatening conditions.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.4
Name of Action or Project:	Public education
Action or Project Description:	County health department will implement publicity campaigns that make residents aware of proper measures to take during times of threatening conditions (e.g. drought, heat wave, extreme cold).
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$500 - \$2,000
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, Phelps-Maries County Health Department
Action/Project Priority:	26 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Local general revenue funds, private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	Revised – on-going
Report of Progress	The health department currently works to increase awareness of the proper measures to take during times of threatening conditions such as heat waves and extreme cold through the distribution of brochures and social media postings. This is an on-going activity.

Action 1.5: Annually assess public and private locations as potential shelters from storms, or extreme temperatures, designate suitable shelters, establish MOU's, and develop accessibility plans for the public during times of need.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with the lack of adequate natural hazard shelters.
Hazard(s) Addressed:	Tornadoes, severe storms, extreme weather
Action or Project	
Action/Project Number:	1.5
Name of Action or Project:	Assessment of locations as potential public shelters, designation of suitable facilities and development of accessibility plans
Action or Project Description:	Encourage the assessment of locations as potential emergency shelters; designate those that are suitable as safe shelters; and develop accessibility plans for the public during times of need.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD
Action/Project Priority:	22 – High Priority
Timeline for Completion:	Annually
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	Revised – in progress
Report of Progress	The county EMD has made some progress on this action item. Two shelters have been designated – the county courthouse in Vienna and the Masonic Lodge in Belle. Accessibility plans are in place for these two locations, and both have shelter supplies. The county would benefit from having more detailed assessments done and additional shelters designated.

Action 1.6: Distribute information on dam safety and self-inspection programs to all dam owners, explore funding opportunities for dam repair.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Aging dams that could be in need of repair or replacement
Hazard(s) Addressed:	Dam Failure
Action or Project	
Action/Project Number:	1.6
Name of Action or Project:	Dam Safety Outreach.
Action or Project Description:	Distribute information on dam safety and self-inspection programs to all dam owners, explore funding opportunities for dam repair.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$1,000 - \$1,500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD and Local Fire Departments
Action/Project Priority:	21– High Priority
Timeline for Completion:	1 – 5 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP, Dam Emergency Action Plans
Progress Report	
Action Status	New
Report of Progress	N/A

Goal 2: Reduce the potential impact of natural disasters on new and existing properties, infrastructure, and the local economy.

Action 2.1: Upgrade roads and bridges that would improve drainage, reduce flooding, and reduce the risk to residents and property as funding allows.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with poor road infrastructure, including bridges and low water crossings, during flood and earthquake events.
Hazard(s) Addressed:	Floods and Earthquake
Action or Project	
Action/Project Number:	2.1
Name of Action or Project:	Review road and bridge upgrades for potential mitigation actions
Action or Project Description:	Examine potential road and bridge upgrades and seek out sources of funding that would improve drainage, reduce flooding, and the risk to residents and property.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties, infrastructure, and the local economy.
Estimated Cost:	\$1,000 - \$10,000
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County Commission, Road & Bridge Dept., Local Planners
Action/Project Priority:	25 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, County Budget
Progress Report	
Action Status	Revised and in progress
Report of Progress	The city reviews each road and bridge project and determines if it will benefit from an upgrade of culvert size to improve drainage.

Action 2.2: Distribute FEMA brochures and factsheets about the National Flood Insurance Program (NFIP) at public offices and community events.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities of properties in the floodplain during a flood event.
Hazard(s) Addressed:	Flood
Action or Project	
Action/Project Number:	2.2
Name of Action or Project:	Flood insurance education/awareness
Action or Project Description:	Educate residents about the dangers of floodplain development and the benefits of the NFIP
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties, infrastructure, and the local economy.
Estimated Cost:	\$250 - \$500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Floodplain Manager, Floodplain Coordinator, Maries County Commission
Action/Project Priority:	25 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, or services
Local Planning Mechanisms to be Used in Implementation, if any:	Floodplain management ordinances, LEOP
Progress Report	
Action Status	Revised - in Progress
Report of Progress	Information, brochures, etc. on floodplain development and the NFIP is available through the floodplain manager and floodplain coordinator for the city. Press releases are done annually. This is a program that requires on-going activity as people move in and out of the city.

Action 2.3: Update floodplain management ordinances to implement regulations to securely attach mobile homes and fuel tanks to an adequately anchored foundation system to resist floatation, collapse, and lateral movement.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with unsecured hazardous materials tanks, and mobile homes during flood, severe weather, or tornado events.
Hazard(s) Addressed:	Flood, Severe Weather, Tornado
Action or Project	
Action/Project Number:	2.3
Name of Action or Project:	Update floodplain management ordinances to implement regulations to securely attach mobile homes and fuel tanks to an adequately anchored foundation system to resist floatation, collapse, and lateral movement.
Action or Project Description:	Encourage local governments to develop and implement regulations and/or ordinances for securing hazardous materials, tanks, and mobile homes to reduce hazards during storms, flooding, and high winds.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties, infrastructure, and the local economy.
Estimated Cost:	\$100
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, Floodplain Manager, County Commission
Action/Project Priority:	18 – Medium Priority
Timeline for Completion:	1 years
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, and services
Local Planning Mechanisms to be Used in Implementation, if any:	County ordinances, builder's plans, LEOP, floodplain ordinances
Progress Report	
Action Status	Revised - Not Started
Report of Progress	N/A

Action 2.4: Continue to enforce flood damage prevention/floodplain management ordinances in compliance with NFIP requirements.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with flooding and unregulated floodplain development.
Hazard(s) Addressed:	Flood, Severe Weather
Action or Project	
Action/Project Number:	2.4
Name of Action or Project:	Floodplain management compliance enforcement.
Action or Project Description:	Continue to enforce flood damage prevention/floodplain management ordinances in compliance with NFIP requirements.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$4,000 - \$10,000
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Floodplain Manager, Floodplain Coordinator, Maries County Commission
Action/Project Priority:	23 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, or services
Local Planning Mechanisms to be Used in Implementation, if any:	Floodplain ordinances
Progress Report	
Action Status	Continuing in Progress
Report of Progress	The city benefits from the public information campaign done by Maries County on requiring floodplain development permits, carrying out inspections of floodplain properties, distributing press releases on NFIP annually and distributing brochures. Because the city has such a small floodplain area, there is no development activity in the floodplain.

Action 2.5: Local governments and school districts will distribute press releases, brochures, and digital content on the benefits of hazard mitigation projects and adopted mitigation efforts to help the public stay abreast of changes and/or new regulations.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of awareness of what hazard mitigation is, what local jurisdictions are doing on hazard mitigation and how individuals can benefit from hazard mitigation projects.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	2.5
Name of Action or Project:	Hazard Mitigation Awareness Program
Action or Project Description:	Local governments and school districts will distribute press releases, brochures, and digital content on the benefits of hazard mitigation projects and adopted mitigation efforts to help the public stay abreast of changes and/or new regulations.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$1,500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, local emergency response agencies, MPC
Action/Project Priority:	26 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Local general revenue funds, private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	Revised – on-going
Report of Progress	Local media outlets report on county road and bridge projects and the benefits of the improvements made. The county health department provides information on how to mitigate potential health problems during periods of extreme temperatures. Progress is being made but this is an on-going program.

Action 2.6: Purchase properties in the floodplain to convert land into public space/recreation area as funding allows.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with floodplain properties
Hazard(s) Addressed:	Flood
Action or Project	
Action/Project Number:	2.6
Name of Action or Project:	Government purchase of properties in the floodplain
Action or Project Description:	Purchase properties in the floodplain to convert land into public space/recreation area as funding allows.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include property damage, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County Commission, County EMD, Floodplain Manager/Coordinator
Action/Project Priority:	18 - M
Timeline for Completion:	N/A
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, or services
Local Planning Mechanisms to be Used in Implementation, if any:	Floodplain ordinances, Hazard Mitigation Plan
Progress Report	
Action Status	Revised – no progress
Report of Progress	N/A

Action 2.7: Cities and counties will implement cost-share programs with private property owners for hazard mitigation projects that benefit the jurisdiction as a whole.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Lack of funding for mitigation projects for individuals
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	2.7
Name of Action or Project:	Cities and counties will implement cost-share programs with private property owners for hazard mitigation projects that benefit the jurisdiction as a whole.
Action or Project Description:	Provide information on the benefits of local governments implementing cost-share programs with private property owners for hazard mitigation projects that benefit the community as a whole
Applicable Goal Statement:	Secure resources for investment in hazard mitigation.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, County Commission
Action/Project Priority:	14 – Medium Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, County Budget
Progress Report	
Action Status	Continuing in progress
Report of Progress	No progress has been made in this area.

Action 2.8: Purchase appropriately sized generators for all critical facilities in the planning area as funding allows.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with power outages for critical infrastructure/facilities
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	2.8
Name of Action or Project:	Acquisition and installation of backup generators for critical infrastructure.
Action or Project Description:	Purchase appropriately sized generators for all critical facilities in the planning area as funding allows.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$25,500 – \$100,000
Benefits:	Losses avoided by implementing this action include loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, County Commission
Action/Project Priority:	21 –High Priority
Timeline for Completion:	5 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	LEOP, County Budget, Hazard Mitigation Plan, Critical Facility Budgets
Progress Report	
Action Status	Revised – in progress
Report of Progress	The city of Vienna has one fixed generator located at the city water plant and one portable generator kept at the city hall building.

Action 2.9: Assist in the formation and training of a prescribed burn association to reduce the incidence of wildfire.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities of properties during a wildfire event
Hazard(s) Addressed:	Wildfire
Action or Project	
Action/Project Number:	2.9
Name of Action or Project:	Formation of a Prescribe Burn Association
Action or Project Description:	Assist in the formation and training of a prescribed burn association to reduce the incidence of wildfire.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties, infrastructure, and the local economy.
Estimated Cost:	\$250 - \$500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Emergency Management Directors, Fire Departments
Action/Project Priority:	26 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, or services
Local Planning Mechanisms to be Used in Implementation, if any:	County Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	New
Report of Progress	N/A

Goal 3: Reduce the potential impact of natural disasters on the continuity of government and essential services.

Action 3.1: Distribute materials to businesses, local governments, and schools to assist in the creation and update of emergency operations plans.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Lack of emergency plans by businesses, local government units and schools.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	3.1
Name of Action or Project:	Development of emergency plans by businesses, local government units and schools.
Action or Project Description:	Promote development of emergency plans by businesses and public entities by providing information on business continuity and emergency planning through local chambers of commerce and emergency management offices.
Applicable Goal Statement:	Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning, and hazard mitigation activities.
Estimated Cost:	\$4,500 - \$5,500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD,
Action/Project Priority:	23 – High Priority
Timeline for Completion:	1 – 5 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, Meramec Region Community Economic Development Strategy (CEDS) – includes Chapter 8 – Economic Recovery and Resiliency Strategy
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The planning area has a county-wide LEOP. Maries Manor, a local nursing home, has an emergency plan. The Maries County Bank has also developed an emergency plan.

Action 3.2: Distribute information to critical facilities on the benefits of building infrastructure improvements to lessen the potential impacts of natural disasters.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with construction of critical facilities which may make them vulnerable to earthquakes and tornadoes
Hazard(s) Addressed:	Earthquakes and Tornadoes
Action or Project	
Action/Project Number:	3.2
Name of Action or Project:	Distribute information to critical facilities on the benefits of building infrastructure improvements to lessen the potential impacts of natural disasters.
Action or Project Description:	Distribute information to critical facilities on the benefits of building infrastructure improvements to lessen the potential impacts of natural disasters.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$1,500 – \$5,000
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damage, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, local emergency response agencies
Action/Project Priority:	17 – Medium Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	LEOP, County Budget, Hazard Mitigation Plan, Critical Facility Budgets
Progress Report	
Action Status	Continuing – no progress
Report of Progress	The county EMD periodically does safety walk-throughs of facilities in the county upon request. Those inspections have not typically included structural resistance to earthquake or tornado in the past. EMD will begin distributing information about the NOAA ambassador program that evaluates tornado safety at no cost to the facility.

Action 3.3: Organize an annual meeting between EMD's, city/county/school officials, and SEMA to familiarize officials with mitigation planning, implementation, budgeting, and to facilitate coordination of mitigation efforts in the planning area.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Lack of knowledge/information of officials in regard to mitigation planning, implementation, and budgeting for mitigation projects.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	3.3
Name of Action or Project:	Mitigation awareness/education meetings with local officials and SEMA
Action or Project Description:	Organize an annual meeting between EMD's, city/county/school officials, and SEMA to familiarize officials with mitigation planning, implementation, budgeting, and to facilitate coordination of mitigation efforts in the planning area.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$100
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, County Commission, SEMA Area Coordinator
Action/Project Priority:	19 - M
Timeline for Completion:	On-going
Potential Fund Sources:	N/A
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan
Progress Report	
Action Status	Continuing - Ongoing
Report of Progress	The Region I SEMA area coordinator holds quarterly meetings in the region and discussions include a variety of topics, including mitigation. MRPC has provided information and presentations on mitigation at regular board meetings that included representatives from the city of Vienna. Due to changes in elected officials, this is an ongoing activity.

Action 3.4: City of Vienna will research options to reduce its wastewater facility’s vulnerability to flood events.

Action Worksheet	
Name of Jurisdiction:	City of Vienna
Risk / Vulnerability	
Problem being Mitigated:	Wastewater facility’s vulnerability to flood
Hazard(s) Addressed:	Flood
Action or Project	
Action/Project Number:	3.4
Name of Action or Project:	City of Vienna will research options to reduce its wastewater facility’s vulnerability to flood events.
Action or Project Description:	The city’s wastewater facility is comprised of 4 wastewater retention ponds that are located in the floodway fringe. The city will research avenues to reduce the facility’s vulnerability to flood waters.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$4,500 - \$10,000
Benefits:	Losses avoided by implementing this action include property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	City EMD, Mayor, Board of Aldermen
Action/Project Priority:	20 – High Priority
Timeline for Completion:	1 – 5 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, Meramec Region Community Economic Development Strategy (CEDS) – includes Chapter 8 – Economic Recovery and Resiliency Strategy
Progress Report	
Action Status	New
Report of Progress	N/A

Maries County R-I

Goal 1: Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.

Action 1.2: Obtain/upgrade early warning systems and improved communication systems as funding allows.

Action Worksheet	
Name of Jurisdiction:	Maries County R-I
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with lack of early warning systems and communications systems in unincorporated areas.
Hazard(s) Addressed:	All hazards.
Action or Project	
Action/Project Number:	1.2
Name of Action or Project:	Improving early warning and communications capabilities.
Action or Project Description:	Maries County Commission needs to budget for enhanced warning and communications systems to improve early warning capabilities for residents in Maries County.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, Local Planners, Local Emergency Response Agencies
Action/Project Priority:	23 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOPs, County Budget
Progress Report	
Action Status	Continuing and revised – in progress
Report of Progress	One warning siren serves the school district located within the city limits of Vienna. The district has an intercom system in their buildings and also utilize handheld radios to maintain constant contact with staff to allow for notification in the event of impending disaster events. The district also has email/text notification systems in place for contacting parents.

Action 1.3: Construct storm shelters or tornado safe rooms near schools and large employment centers as funding allows.

Action Worksheet	
Name of Jurisdiction:	Maries County R-I
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with schools and large employer facilities that do not have certified tornado safe rooms and use alternative facilities to shelter students, staff, and employees in the event of high winds/tornadoes.
Hazard(s) Addressed:	Severe Storms and Tornadoes
Action or Project	
Action/Project Number:	1.3
Name of Action or Project:	Encourage construction of certified tornado safe rooms and storm shelters in high population areas
Action or Project Description:	Disseminate information on the importance of and funding sources for constructing storm shelters, especially certified tornado safe rooms near schools and large employment centers that currently do not have access to safe rooms.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County Commission and EMD
Action/Project Priority:	19 – Medium Priority
Timeline for Completion:	On-going until facilities are constructed
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOPs, School Emergency Plan
Progress Report	
Action Status	Revised – no progress
Report of Progress	No progress at this time. The cost of constructing certified tornado shelters is an obstacle. The school district does not currently have plans to expand/build in a way which would provide an opportunity to incorporate a certified tornado safe room into the plans.

Goal 2: Reduce the potential impact of natural disasters on new and existing properties, infrastructure, and the local economy.

Action 2.5: Local governments and school districts will distribute press releases, brochures, and digital content on the benefits of hazard mitigation projects and adopted mitigation efforts to help the public stay abreast of changes and/or new regulations.

Action Worksheet	
Name of Jurisdiction:	Maries County R-I
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of awareness of what hazard mitigation is, what local jurisdictions are doing on hazard mitigation and how individuals can benefit from hazard mitigation projects.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	2.5
Name of Action or Project:	Hazard Mitigation Awareness Program
Action or Project Description:	Local governments and school districts will distribute press releases, brochures, and digital content on the benefits of hazard mitigation projects and adopted mitigation efforts to help the public stay abreast of changes and/or new regulations.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$1,500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, local emergency response agencies, MPC
Action/Project Priority:	26 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Local general revenue funds, private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	Revised – on-going
Report of Progress	The school district uses social media and email/text based notification systems to relay important information on general health and wellness to the families of students in the district including challenging weather events, bus route closures, vaccination events, etc.

Action 2.8: Purchase appropriately sized generators for all critical facilities in the planning area as funding allows.

Action Worksheet	
Name of Jurisdiction:	Maries County R-I
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with power outages for critical infrastructure/facilities
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	2.8
Name of Action or Project:	Acquisition and installation of backup generators for critical infrastructure.
Action or Project Description:	Purchase appropriately sized generators for all critical facilities in the planning area as funding allows.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$25,500 – \$100,000
Benefits:	Losses avoided by implementing this action include loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, County Commission
Action/Project Priority:	21 –High Priority
Timeline for Completion:	5 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	LEOP, County Budget, Hazard Mitigation Plan, Critical Facility Budgets
Progress Report	
Action Status	Revised – in progress
Report of Progress	The district does not own any generators at this time.

Goal 3: Reduce the potential impact of natural disasters on the continuity of government and essential services.

Action 3.3: Organize an annual meeting between EMD’s, city/county/school officials, and SEMA to familiarize officials with mitigation planning, implementation, budgeting, and to facilitate coordination of mitigation efforts in the planning area.

Action Worksheet	
Name of Jurisdiction:	Maries County R-I
Risk / Vulnerability	
Problem being Mitigated:	Lack of knowledge/information of officials in regard to mitigation planning, implementation, and budgeting for mitigation projects.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	3.3
Name of Action or Project:	Mitigation awareness/education meetings with local officials and SEMA
Action or Project Description:	Organize an annual meeting between EMD’s, city/county/school officials, and SEMA to familiarize officials with mitigation planning, implementation, budgeting, and to facilitate coordination of mitigation efforts in the planning area.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$100
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, County Commission, SEMA Area Coordinator
Action/Project Priority:	19 - M
Timeline for Completion:	On-going
Potential Fund Sources:	N/A
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan
Progress Report	
Action Status	Continuing - Ongoing
Report of Progress	The Region I SEMA area coordinator holds quarterly meetings in the region and discussions include a variety of topics, including mitigation. MRPC has provided information and presentations on mitigation at regular board meetings. Due to changes in elected officials, this is an ongoing activity.

Maries County R-II

Goal 1: Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.

Action 1.2: Obtain/upgrade early warning systems and improved communication systems as funding allows.

Action Worksheet	
Name of Jurisdiction:	Maries County R-II
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with lack of early warning systems and communications systems in unincorporated areas.
Hazard(s) Addressed:	All hazards.
Action or Project	
Action/Project Number:	1.2
Name of Action or Project:	Improving early warning and communications capabilities.
Action or Project Description:	Maries County Commission needs to budget for enhanced warning and communications systems to improve early warning capabilities for residents in Maries County.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, Local Planners, Local Emergency Response Agencies
Action/Project Priority:	23 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOPs, County Budget
Progress Report	
Action Status	Continuing and revised – in progress
Report of Progress	One warning siren serves the Elementary and High School buildings. Both buildings have public address systems and the district utilizes email/text notification systems for parent communication.

Action 1.3: Construct storm shelters or tornado safe rooms near schools and large employment centers as funding allows.

Action Worksheet	
Name of Jurisdiction:	Maries County R-II
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with schools and large employer facilities that do not have certified tornado safe rooms and use alternative facilities to shelter students, staff, and employees in the event of high winds/tornadoes.
Hazard(s) Addressed:	Severe Storms and Tornadoes
Action or Project	
Action/Project Number:	1.3
Name of Action or Project:	Encourage construction of certified tornado safe rooms and storm shelters in high population areas
Action or Project Description:	Disseminate information on the importance of and funding sources for constructing storm shelters, especially certified tornado safe rooms near schools and large employment centers that currently do not have access to safe rooms.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	Unknown
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County Commission and EMD
Action/Project Priority:	19 – Medium Priority
Timeline for Completion:	On-going until facilities are constructed
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOPs, School Emergency Plan
Progress Report	
Action Status	Revised – no progress
Report of Progress	No progress at this time. The cost of constructing certified tornado shelters is an obstacle. The school district does not currently have plans to expand/build which would provide an opportunity to incorporate a certified tornado safe room into the plans.

Goal 2: Reduce the potential impact of natural disasters on new and existing properties, infrastructure, and the local economy.

Action 2.5: Local governments and school districts will distribute press releases, brochures, and digital content on the benefits of hazard mitigation projects and adopted mitigation efforts to help the public stay abreast of changes and/or new regulations.

Action Worksheet	
Name of Jurisdiction:	Maries County R-II
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of awareness of what hazard mitigation is, what local jurisdictions are doing on hazard mitigation and how individuals can benefit from hazard mitigation projects.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	2.5
Name of Action or Project:	Hazard Mitigation Awareness Program
Action or Project Description:	Local governments and school districts will distribute press releases, brochures, and digital content on the benefits of hazard mitigation projects and adopted mitigation efforts to help the public stay abreast of changes and/or new regulations.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$1,500
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, local emergency response agencies, MPC
Action/Project Priority:	26 – High Priority
Timeline for Completion:	On-going
Potential Fund Sources:	Local general revenue funds, private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	Revised – on-going
Report of Progress	The school district uses social media and email/text based notification systems to relay important information on general health and wellness to the families of students in the district including challenging weather events, bus route closures, vaccination events, etc.

Action 2.8: Purchase appropriately sized generators for all critical facilities in the planning area as funding allows.

Action Worksheet	
Name of Jurisdiction:	Maries County R-II
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with power outages for critical infrastructure/facilities
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	2.8
Name of Action or Project:	Acquisition and installation of backup generators for critical infrastructure.
Action or Project Description:	Purchase appropriately sized generators for all critical facilities in the planning area as funding allows.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$25,500 – \$100,000
Benefits:	Losses avoided by implementing this action include loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, County Commission
Action/Project Priority:	21 –High Priority
Timeline for Completion:	5 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	LEOP, County Budget, Hazard Mitigation Plan, Critical Facility Budgets
Progress Report	
Action Status	Revised – in progress
Report of Progress	The school district does not own any generators at this time.

Goal 3: Reduce the potential impact of natural disasters on the continuity of government and essential services.

Action 3.3: Organize an annual meeting between EMD’s, city/county/school officials, and SEMA to familiarize officials with mitigation planning, implementation, budgeting, and to facilitate coordination of mitigation efforts in the planning area.

Action Worksheet	
Name of Jurisdiction:	Maries County R-II
Risk / Vulnerability	
Problem being Mitigated:	Lack of knowledge/information of officials in regard to mitigation planning, implementation, and budgeting for mitigation projects.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	3.3
Name of Action or Project:	Mitigation awareness/education meetings with local officials and SEMA
Action or Project Description:	Organize an annual meeting between EMD’s, city/county/school officials, and SEMA to familiarize officials with mitigation planning, implementation, budgeting, and to facilitate coordination of mitigation efforts in the planning area.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$100
Benefits:	Losses avoided by implementing this action include injuries and/or casualties, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	County EMD, County Commission, SEMA Area Coordinator
Action/Project Priority:	19 - M
Timeline for Completion:	On-going
Potential Fund Sources:	N/A
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan
Progress Report	
Action Status	Continuing - Ongoing
Report of Progress	The Region I SEMA area coordinator holds quarterly meetings in the region and discussions include a variety of topics, including mitigation. MRPC has provided information and presentations on mitigation at regular board meetings. Due to changes in elected officials, this is an ongoing activity.