

4 MITIGATION STRATEGY

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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 (October 1, 2012)*.

- **Mitigation Goals** are general guidelines that explain what you want to achieve. Goals are long-term policy statements and global visions that support the mitigation strategy. The goals address the risk of hazards identified in the plan.
- **Mitigation Actions** are specific actions, projects, activities, or processes taken to reduce or eliminate long-term risk to people and property from hazards and their impacts. Implementing mitigation actions helps achieve the plan’s mission and goals.

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 Crawford County’s existing hazard mitigation plan originally approved by FEMA in April, 2005 and updated and approved by FEMA on March 22, 2013 and five years later in June, 2018. Therefore, the goals from the updated 2018 Crawford 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 first meeting to review and update the plan goals. To ensure that the goals developed for this update were comprehensive and supported State goals, the 2018 State Hazard Mitigation Plan goals were reviewed. The MPC reviewed the goals and decided to consolidate them from six goals to three. The following goals were established for the 2023 Crawford 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 to property, infrastructure and the local economy.

Goal 3: Reduce the potential impact of natural disaster 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 have been no deaths 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, which had not been done in the previously approved plan. The problem statements summarize the risk to the planning area presented by each hazard and include possible methods to reduce that risk.

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.

Additionally, the future inclusion of each mitigation action in the plan update was identified as either keep, delete, or modify. Based on the status updates, there were six completed actions, two deleted actions, eight actions that were combined with other, similar actions, and 13 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
Crawford County	6	13	10
City of Bourbon	6	13	10
City of Cuba	6	13	10
Village of Leasburg	6	13	10
City of Steelville	6	13	10
City of Sullivan	6	13	10
Crawford Co. R-I School District	3	3	1
Crawford Co. R-II School District	3	3	1
Steelville R-III School District	3	3	1
Sullivan School District	3	3	1

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)
1.2 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.	Complete. Public entities in the county have emergency plans in place and the county EMD had done work with local businesses on continuity planning. The MPC stated that this was set in policy. In addition, the MPC did not feel that promoting the development of emergency plans to business entities met the SMART criteria and chose to remove that part of the action item from the plan.
1.6 Provide information on tree trimming and dead tree removal programs to utility companies and local governments.	Complete. Tree trimming protocols are set in policy. For the most part tree trimming is done by utility companies.

Completed Actions	Completion Details (date, amount, funding source)
1.9 Monitor developments in data availability concerning the impact of dam failure, tornadoes, sinkholes, land subsidence and wildfire upon Crawford County and all jurisdictions through local, state and federal agencies for use in hazard mitigation planning.	Complete. This action item is completed through the plan update process.
2.3 Provide information on the benefits of establishing minimum building codes to those jurisdictions that currently lack minimum building code requirements.	Completed. All cities in the planning area indicated they have established minimum building codes.
5.3 Coordinate and integrate hazard mitigation activities, where appropriate, with emergency operation plans and procedures.	Completed. This action item is set in policy.
6.7 Prioritize mitigation projects, based on cost-effectiveness and starting with those sites facing the greatest threat to life, health, and property.	Completed through planning process.
Deleted Actions	Reason for Deletion
1.4 Promote the use of weather radios by local residents and schools to ensure advanced warning about threatening weather.	Combined with 1.1
2.1 Provide information on self-inspection programs to critical facilities to assess earthquake and tornado resistance.	Deleted. Facility inspection requires expertise that most jurisdictions did not believe they possessed. Did not believe this action item was achievable.
3.1 Distribute SEMA brochures at public facilities and events and distribute regular press releases concerning hazards, where they strike, frequency and preparedness.	Combined with 1.1
3.5 Re-evaluate the hazard mitigation plan and merge with other community planning.	Deleted. Not a high priority.
3.7 Encourage county health department and Red Cross to implement education/awareness campaigns on individual preparedness.	Combined with 1.1
5.2 Provide information to all communities on the benefits and costs of developing storm water management plans.	Combined with 5.4
6.2 Structure grant proposals for road/bridge upgrades so that hazard mitigation concerns are also met.	Combined with 1.7.

Deleted Actions	Reason for Deletion
6.3 Work with state/local/federal agencies to include mitigation in all economic and community development projects	Combined with 3.4
6.4 Provide information to jurisdictions on the benefits of budgeting for and implementing hazard mitigation projects.	Combined with 3.4
6.5 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	Combine with 3.4.

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

Note: For the Benefit/Cost Review, the benefit and cost of actions which used the word “encourage” were evaluated as if the action or strategy being encouraged was actually to be carried out.

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

In addition to the STAPLEE and Benefit/Cost analysis, the committee was also asked to consider **SMART** – **S**pecific, **M**easurable, **A**chievable, **R**elevant, **T**ime-bound, per FEMA. All action items were reviewed with this criteria in mind. 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. Correspondence regarding the STAPLEE process is included in Appendix B. A spreadsheet with the action items and final scores is illustrated in **Figure 4.4**.

Jurisdictional Floodplain Management Programs

Crawford County and the communities of Bourbon, Cuba, Leasburg, Steelville, and Sullivan 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 halls of each community 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
Crawford County	04/26/10
Bourbon	No flood hazard areas – not required to have ordinance
Cuba	09/01/2021
Leasburg	01/30/75
Steelville	2010
Sullivan	04/2004

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											
Action No.	Mitigation Actions	S	T	A	P	L	E	F	STAPLEE	Losses Avoided (2 pts. Each)	Benefit	Cost	B/C Total	Total	Priority
1.1	Local emergency management directors will coordinate education programs in schools and distribute brochures on natural disasters and emergency preparedness at all public offices.	3	3	3	3	3	2	3	20	IC, PD, LF, EMCC	8	-1	7	27	H
1.3	Obtain and upgrade early warning systems and improved communication systems as funding allows.	3	2	2	3	3	2	2	17	IC, PD, LF, EMCC	8	-3	5	22	H
1.7	Upgrade roads and bridges that would reduce danger to residents during occurrences of natural disasters as funding allows.	3	3	3	3	3	3	3	21	IC, PD, LF, EMCC	8	-1	7	28	H
1.8	Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows.	3	2	2	3	3	3	3	19	IC, LF, EMCC	6	-1	5	24	H
1.10	Continued compliance with NFIP requirements.	2	3	2	2	3	2	3	17	IC, PD, LF, EMCC	8	-1	7	24	H
2.2	Distribute FEMA brochures and factsheets about the National Flood Insurance Program (NFIP) at public offices and community events.	3	2	2	3	3	3	2	18	IC, PD, LF, EMCC	8	-2	6	24	H
2.4	Revise floodplain ordinances to require securing hazardous material tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.	2	3	2	2	3	3	3	18	IC, PD, LF, EMCC	8	-2	6	24	H
3.4	Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.	3	2	2	3	3	2	3	18	IC, PD, LF, EMCC	8	-2	6	24	H
3.6	Distribute information about hazard mitigation projects to the public through press releases and social media.	3	3	3	3	3	3	3	21	IC, PD, LF, EMCC	8	-1	7	28	H
4.3	Adopt formal Memorandum of Understand between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.	3	3	2	3	3	3	3	20	IC, PD, LF, EMCC	8	-1	7	27	H
5.4	Require contractor stormwater management plans in all new development.	3	2	3	2	3	3	3	19	PD, EMCC	4	-1	3	22	H
5.5	Purchase properties in the floodplain to convert land into public space/recreation areas as funds allow.	2	2	2	2	3	2	3	16	IC, PD, LF, EMCC	8	-3	5	21	H
6.8	Purchase generators for all critical infrastructure facilities as funding allows.	3	2	2	2	3	3	3	18	IC, LF, EMCC	8	-2	6	24	H

Crawford 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 emergency management directors will coordinate education programs in schools and distribute brochures on natural disasters and emergency preparedness at all public offices.

Action Worksheet	
Name of Jurisdiction:	Crawford County
Risk / Vulnerability	
Problem being Mitigated:	Risks and hazards associated with residents unprepared to manage on their own for up to 72 hours following an event – especially an event which results in power outage or loss of utilities.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.1
Name of Action or Project:	Education/Awareness Program on Natural Hazards and Personal Preparedness
Action or Project Description:	Local emergency responders and EMDs will promote Ready in 3 and other personal preparedness education programs through the distribution of brochures, press releases and presentations at special events and schools and through the county health department and local government offices.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$500 -\$3,500 estimated cost
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:	EMD and county health department
Action/Project Priority:	27 – 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, LEOP
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Activity has occurred in this area as most emergency response agencies, the health department and EMDs promote individual preparedness and provide <i>Ready in 3</i> brochures. SEMA distributes press releases periodically on personal preparedness. The county health department and EMD post information on their websites, and FaceBook pages. A more focused and coordinated effort would help to achieve comprehensive coverage for all the jurisdictions.

Action 1.3: Obtain and upgrade early warning systems and improved communication systems as funding allows.

Action Worksheet	
Name of Jurisdiction:	Crawford County
Risk / Vulnerability	
Problem being Mitigated:	Need to improve warning and communications systems throughout the county.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.3
Name of Action or Project:	Obtain and upgrade early warning systems and improved communication systems.
Action or Project Description:	Obtain and upgrade early warning systems and improved communication systems as funding allows, including tornado sirens and text and phone systems.
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, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	EMD, County Commission
Action/Project Priority:	22 – High Priority
Timeline for Completion:	On-going – five 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, Hazard Mitigation Plan
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Currently there are storm sirens in Indian Hills – a rural subdivision north of Cuba, as well as in Cuba, Steelville, Bourbon and Sullivan. The county has Smart 911 system and app that is free and available to anyone in the county. Residents also have access to the Rave system which provides alerts via phone, text and email. In addition, Crawford Electric Cooperative has a messaging system for customers. The Sullivan School District and Cuba School District have messaging systems used for students and their families. The county would benefit from a program to raise awareness of the Smart 911 and Rave systems and increase participation

Action 1.7: Upgrade roads and bridges that would reduce danger to residents during occurrences of natural disasters as funding allows.

Action Worksheet	
Name of Jurisdiction:	Crawford County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with poor road infrastructure, including bridges and low water crossings, during flood and earthquakes events.
Hazard(s) Addressed:	Floods and Earthquake
Action or Project	
Action/Project Number:	1.7
Name of Action or Project:	Upgrade road and bridge upgrades for potential mitigation actions
Action or Project Description:	Upgrade roads and bridges that would reduce danger to residents during occurrences of natural disasters as funding allows.
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, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Crawford County Commission, road and bridge department
Action/Project Priority:	28 – 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, capital improvement plan
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The county works to upgrade road and bridge projects by increasing the size of culverts and using square rather than round culverts when doing replacements. The county is currently seeking funds to replace the bridge on Bass Road. In the past five years there have been four bridge replacements of slab low water crossings: Thurman Lake Rd., Brickie Bridge on Eaglehurst Rd., Blunt Rd. bridge, New Bridge on Four-Mile Rd. The County's goal is for bridges to be able to handle 85% of flood waters. Currently they are at 20%. Other bridge improvements that were funded through the Transportation Advisory Committee/MoDOT on state highways in Crawford County include two over Crooked Creek – one on M Highway and one on Highway 19; one on Highway 49 over Dry Creek; Highway C Bridge over the Little Bourbeouse and Highway CC bridge over Brush Creek. Have three additional slab crossings that they would like to either replace with bridges or increase culvert size. Highway HH bridge over Dry Creek will be improved in 2023.

Action 1.8: Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows

Action Worksheet	
Name of Jurisdiction:	Crawford 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/tornados.
Hazard(s) Addressed:	Severe Storms and Tornados
Action or Project	
Action/Project Number:	1.8
Name of Action or Project:	Increasing the number of certified tornado safe rooms and storm shelters in high population areas
Action or Project Description:	Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows
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:	EMD, County Commission
Action/Project Priority:	24 – High Priority
Timeline for Completion:	1 – 10 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, capital improvement plan
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Due to the high cost of construction of certified tornado safe rooms, this action item has not made progress.

Action 1.10: Continued compliance with NFIP requirements.

Action Worksheet	
Name of Jurisdiction:	Crawford County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of compliance with NFIP requirements.
Hazard(s) Addressed:	Flooding
Action or Project	
Action/Project Number:	1.10
Name of Action or Project:	NFIP compliance
Action or Project Description:	Continued compliance with NFIP requirements.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$4,000 - \$8,000
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 Commission, Floodplain Manager
Action/Project Priority:	24 – 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, LEOP, floodplain ordinance
Progress Report	
Action Status	New - Continuing
Report of Progress	Crawford County continues to comply with NFIP requirements in order to remain a member in good standing.

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

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:	Crawford County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with the general public not being aware of the dangers of floodplain development and benefits of the NFIP.
Hazard(s) Addressed:	Floods
Action or Project	
Action/Project Number:	2.2
Name of Action or Project:	Floodplain education/awareness program.
Action or Project Description:	Distribute FEMA brochures and factsheets about the National Flood Insurance Program (NFIP) at public offices and community events.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$500 - \$1,500
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 and Floodplain Manager
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 years
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, LEOP, floodplain management ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The county floodplain manager distributes brochures to the county courthouse and area banks and realtors on an annual basis. They also distribute press releases and information on floodplain management and development requirements.

Action 2.4: Revise floodplain ordinances to require securing hazardous material tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.

Action Worksheet	
Name of Jurisdiction:	Crawford County
Risk / Vulnerability	
Problem being Mitigated:	Unsecured hazardous materials tank such as propane and unsecured mobile homes pose risks during floods, severe storms and tornadoes.
Hazard(s) Addressed:	Floods, Severe Storms, and Tornadoes
Action or Project	
Action/Project Number:	2.4
Name of Action or Project:	Establishing regulations for the securing of hazardous materials tanks and mobile homes.
Action or Project Description:	Revise floodplain ordinances to require securing hazardous material tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	\$1,500 - \$5,000
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:	Crawford County Commission, Floodplain Manager
Action/Project Priority:	24 –High Priority
Timeline for Completion:	1 – 5 years
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, floodplain ordinance
Progress Report	
Action Status	Complete
Report of Progress	The county floodplain ordinance requires that hazardous materials tanks and manufactured homes in floodplains be secured.

Action 5.5 [2.6]: Purchase properties in the floodplain to convert land into public space/recreation areas as funds allow.

Action Worksheet	
Name of Jurisdiction:	Crawford County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with properties located in the floodplain.
Hazard(s) Addressed:	Flood
Action or Project	
Action/Project Number:	5.5 [2.6]
Name of Action or Project:	Floodplain buyout
Action or Project Description:	Purchase properties in the floodplain and convert land into public space/recreation area as funds allow.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	Unknown
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, EMD, floodplain manager
Action/Project Priority:	22 –High Priority
Timeline for Completion:	On-going - Unknown
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, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Not started.

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

Action 3.4: Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.

Action Worksheet	
Name of Jurisdiction:	Crawford County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of synergy for planning, implementing and budgeting for hazard mitigation projects and for including mitigation in all economic and community development projects.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.4
Name of Action or Project:	Planning activities for hazard mitigation for local elected officials and planning organizations
Action or Project Description:	Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$50 - \$250
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, EMD
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 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, floodplain ordinance, CEDS
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The Region I SEMA area coordinator conducts quarterly meetings in the region and has included hazard mitigation in those meetings. In addition, MRPC has had presentations on hazard mitigation at its meetings that included representatives from Crawford County. This program would benefit from a more focused effort to hold meetings centered on hazard mitigation.

Action 3.6: Distribute information about hazard mitigation projects to the public through press releases and social media.

Action Worksheet	
Name of Jurisdiction:	Crawford County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with the public's lack of knowledge in regards to hazard mitigation and the benefits of adopting mitigation measures.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.6
Name of Action or Project:	Awareness program on local mitigation activities.
Action or Project Description:	Distribute information about hazard mitigation projects to the public through press releases and social media.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$200-\$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, County Commission
Action/Project Priority:	28 –High Priority
Timeline for Completion:	On-going – 1 – 5 years
Potential Fund Sources:	Local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	LEOP, hazard mitigation plan, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The county regularly does press releases on road and bridge activities that mitigate problems with drainage and flooding.

Action 4.3 [3.7]: Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.

Action Worksheet	
Name of Jurisdiction:	Crawford County
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with lack of MOUs between jurisdictions and agencies to provide support during disasters.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	4.3 [3.7]
Name of Action or Project:	Adoption of Memorandums of Understanding
Action or Project Description:	Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
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:	County EMD, Crawford County Commission
Action/Project Priority:	27 – High Priority
Timeline for Completion:	On-going 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	Revised - Continuing
Report of Progress	Some MOUs are in place for local volunteer fire departments.

Action 3.8: Purchase generators for all critical infrastructure facilities as funding allows.

Action Worksheet	
Name of Jurisdiction:	Crawford County
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with loss of power to critical infrastructure and facilities.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.8
Name of Action or Project:	Purchase generators for all critical infrastructure and facilities.
Action or Project Description:	Purchase generators for all critical infrastructure facilities as funding allows.
Applicable Goal Statement:	Secure resources for investment in hazard mitigation.
Estimated Cost:	\$8,000 - \$75,000 per unit
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, County Commission, Local Planners,
Action/Project Priority:	24 – 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:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	New
Report of Progress	The county does not currently own any generators. Generators were purchased for the Steelville Ambulance District and Recklein Auditorium building through the Region I HSOC, with the equipment being maintained by local agencies

Bourbon

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

Action 1.1: Local emergency management directors will coordinate education programs in schools and distribute brochures on natural disasters and emergency preparedness at all public offices.

Action Worksheet	
Name of Jurisdiction:	Bourbon
Risk / Vulnerability	
Problem being Mitigated:	Risks and hazards associated with residents unprepared to manage on their own for up to 72 hours following an event – especially an event which results in power outage or loss of utilities.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.1
Name of Action or Project:	Education/Awareness Program on Natural Hazards and Personal Preparedness
Action or Project Description:	Local emergency responders and EMDs will promote Ready in 3 and other personal preparedness education programs through the distribution of brochures, press releases and presentations at special events and schools and through the county health department and local government offices.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$500 -\$3,500 estimated cost
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:	EMD and county health department
Action/Project Priority:	27 – 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, LEOP
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Activity has occurred in this area as most emergency response agencies, the health department and EMDs promote individual preparedness and provide <i>Ready in 3</i> brochures. SEMA distributes press releases periodically on personal preparedness. The county health department posts information on their website, and FaceBook pages. A more focused and coordinated effort

	would help to achieve comprehensive coverage for all the jurisdictions.
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Action 1.3: Obtain and upgrade early warning systems and improved communication systems as funding allows.

Action Worksheet	
Name of Jurisdiction:	Bourbon
Risk / Vulnerability	
Problem being Mitigated:	Need to improve warning and communications systems throughout the county.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.3
Name of Action or Project:	Obtain and upgrade early warning systems and improved communication systems.
Action or Project Description:	Obtain and upgrade early warning systems and improved communication systems as funding allows, including tornado sirens and text and phone systems.
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, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	EMD, Mayor, Board of Aldermen
Action/Project Priority:	22 – High Priority
Timeline for Completion:	On-going – five 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, Hazard Mitigation Plan
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Currently there are two storm sirens in Bourbon. The city does not have a phone/text-based warning system. The city needs to continue to work to improve communications systems within the city to improve city-wide as well as state-wide communications during disasters and joint response efforts.

Action 1.7: Upgrade roads and bridges that would reduce danger to residents during occurrences of natural disasters as funding allows.

Action Worksheet	
Name of Jurisdiction:	Bourbon
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with poor road infrastructure, including bridges and low water crossings, during flood and earthquakes events.
Hazard(s) Addressed:	Floods and Earthquake
Action or Project	
Action/Project Number:	1.7
Name of Action or Project:	Upgrade road and bridge upgrades for potential mitigation actions
Action or Project Description:	Upgrade roads and bridges that would reduce danger to residents during occurrences of natural disasters as funding allows.
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, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Mayor, Board of Aldermen, Public Works Department
Action/Project Priority:	28 – 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, capital improvement plan
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The city works to upgrade road and bridge projects as funding allows.

Action 1.8: Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows

Action Worksheet	
Name of Jurisdiction:	Bourbon
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/tornados.
Hazard(s) Addressed:	Severe Storms and Tornados
Action or Project	
Action/Project Number:	1.8
Name of Action or Project:	Increasing the number of certified tornado safe rooms and storm shelters in high population areas
Action or Project Description:	Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows
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:	EMD, Mayor, Board of Aldermen
Action/Project Priority:	24 – High Priority
Timeline for Completion:	1 – 10 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, capital improvement plan
Progress Report	
Action Status	Revised – No progress
Report of Progress	Due to the high cost of construction of certified tornado safe rooms, this action item has not made progress. There are no FEMA certified tornado shelters in Bourbon.

Action 1.10: Continued compliance with NFIP requirements.

Action Worksheet	
Name of Jurisdiction:	Bourbon
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of compliance with NFIP requirements.
Hazard(s) Addressed:	Flooding
Action or Project	
Action/Project Number:	1.10
Name of Action or Project:	NFIP compliance
Action or Project Description:	Continued compliance with NFIP requirements.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$4,000 - \$8,000
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:	Floodplain Manager, Mayor, Board of Aldermen
Action/Project Priority:	24 – 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, LEOP, floodplain ordinance
Progress Report	
Action Status	New - Continuing
Report of Progress	Bourbon continues to comply with NFIP requirements in order to remain a member in good standing.

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

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:	Bourbon
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with the general public not being aware of the dangers of floodplain development and benefits of the NFIP.
Hazard(s) Addressed:	Flooding
Action or Project	
Action/Project Number:	2.2
Name of Action or Project:	Floodplain education/awareness program.
Action or Project Description:	Distribute FEMA brochures and factsheets about the National Flood Insurance Program (NFIP) at public offices and community events.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$500 - \$1,500
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:	Floodplain Manager
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 years
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, LEOP, floodplain management ordinance
Progress Report	
Action Status	Revised – Continuing
Report of Progress	No progress.

Action 2.4: Revise floodplain ordinances to require securing hazardous material tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.

Action Worksheet	
Name of Jurisdiction:	Bourbon
Risk / Vulnerability	
Problem being Mitigated:	Unsecured hazardous materials tank such as propane and unsecured mobile homes pose risks during floods, severe storms and tornadoes.
Hazard(s) Addressed:	Floods, Severe Storms, Tornadoes
Action or Project	
Action/Project Number:	2.4
Name of Action or Project:	Establishing regulations for the securing of hazardous materials tanks and mobile homes.
Action or Project Description:	Revise floodplain ordinances to require securing hazardous material tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	\$1,500 - \$5,000
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, Mayor, Board of Aldermen
Action/Project Priority:	24 –High Priority
Timeline for Completion:	1 – 5 years
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, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	No progress

Action 2.5: Require contractor stormwater management plans in all new development.

Action Worksheet	
Name of Jurisdiction:	Bourbon
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of stormwater management and infrastructure.
Hazard(s) Addressed:	Floods, Severe Storms
Action or Project	
Action/Project Number:	2.5
Name of Action or Project:	Contractor stormwater management plan requirements.
Action or Project Description:	Require contractor stormwater management plans in all new development.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	\$1,500 - \$10,000
Benefits:	Losses avoided by implementing this action include property damages, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Mayor, Board of Aldermen, Local Planners, Public Works
Action/Project Priority:	22 –High Priority
Timeline for Completion:	5 – 10 years
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, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Bourbon has a stormwater ordinance but does not specifically require stormwater management plans for new development.

Action 5.5 [2.6]: Purchase properties in the floodplain to convert land into public space/recreation areas as funds allow.

Action Worksheet	
Name of Jurisdiction:	Bourbon
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with properties located in the floodplain.
Hazard(s) Addressed:	Flood
Action or Project	
Action/Project Number:	5.5 [2.6]
Name of Action or Project:	Floodplain buyout
Action or Project Description:	Purchase properties in the floodplain and convert land into public space/recreation area as funds allow.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	Unknown
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:	Mayor, Board of Aldermen, Floodplain Manager
Action/Project Priority:	22 –High Priority
Timeline for Completion:	On-going - Unknown
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, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Not started.

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

Action 3.4: Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.

Action Worksheet	
Name of Jurisdiction:	Bourbon
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of synergy for planning, implementing and budgeting for hazard mitigation projects and for including mitigation in all economic and community development projects.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.4
Name of Action or Project:	Planning activities for hazard mitigation for local elected officials and planning organizations
Action or Project Description:	Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$50 - \$250
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:	Mayor, EMD
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 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, floodplain ordinance, CEDS
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The Region I SEMA area coordinator conducts quarterly meetings in the region and has included hazard mitigation in those meetings. In addition, MRPC has had presentations on hazard mitigation at its meetings that included representatives

	from Crawford County. This program would benefit from a more focused effort to hold meetings centered on hazard mitigation.
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Action 3.6: Distribute information about hazard mitigation projects to the public through press releases and social media.

Action Worksheet	
Name of Jurisdiction:	Bourbon
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with the public's lack of knowledge in regards to hazard mitigation and the benefits of adopting mitigation measures.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.6
Name of Action or Project:	Awareness program on local mitigation activities.
Action or Project Description:	Distribute information about hazard mitigation projects to the public through press releases and social media.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$200-\$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:	EMD, Mayor, Public Works
Action/Project Priority:	28 –High Priority
Timeline for Completion:	On-going – 1 – 5 years
Potential Fund Sources:	Local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	LEOP, hazard mitigation plan, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The city regularly does press releases on road and bridge improvements that mitigate problems with drainage and flooding.

Action 4.3 [3.7]: Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.

Action Worksheet	
Name of Jurisdiction:	Bourbon
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with lack of MOUs between jurisdictions and agencies to provide support during disasters.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	4.3 [3.7]
Name of Action or Project:	Adoption of Memorandums of Understanding
Action or Project Description:	Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
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:	EMD, Mayor, Board of Aldermen
Action/Project Priority:	27 – High Priority
Timeline for Completion:	On-going 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	Revised - Continuing
Report of Progress	Some MOUs are in place for local volunteer fire departments. This program would benefit from MOUs for: public works assistance, transportation for evacuations; emergency supplies such as water and food; and formal agreements with local churches, schools or other facilities that could serve as emergency shelters. Bourbon does have two designated tornado shelters for the public but they are not FEMA certified.

Action 3.8: Purchase generators for all critical infrastructure facilities as funding allows.

Action Worksheet	
Name of Jurisdiction:	Bourbon
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with loss of power to critical infrastructure and facilities.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.8
Name of Action or Project:	Purchase generators for all critical infrastructure and facilities.
Action or Project Description:	Purchase generators for all critical infrastructure facilities as funding allows.
Applicable Goal Statement:	Secure resources for investment in hazard mitigation.
Estimated Cost:	\$8,000 - \$75,000
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:	EMD, Mayor, Board of Aldermen, Public Works
Action/Project Priority:	24 – 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:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	New
Report of Progress	The city does not currently own any generators.

Cuba

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

Action 1.1: Local emergency management directors will coordinate education programs in schools and distribute brochures on natural disasters and emergency preparedness at all public offices.

Action Worksheet	
Name of Jurisdiction:	Cuba
Risk / Vulnerability	
Problem being Mitigated:	Risks and hazards associated with residents unprepared to manage on their own for up to 72 hours following an event – especially an event which results in power outage or loss of utilities.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.1
Name of Action or Project:	Education/Awareness Program on Natural Hazards and Personal Preparedness
Action or Project Description:	Local emergency responders and EMDs will promote Ready in 3 and other personal preparedness education programs through the distribution of brochures, press releases and presentations at special events and schools and through the county health department and local government offices.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$500 -\$3,500 estimated cost
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:	EMD and county health department
Action/Project Priority:	27 – 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, LEOP
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Activity has occurred in this area as most emergency response agencies, the health department and EMDs promote individual preparedness and provide <i>Ready in 3</i> brochures. SEMA distributes press releases periodically on personal preparedness. The county health department posts information on their website, and FaceBook pages. A more focused and coordinated effort

	would help to achieve comprehensive coverage for all the jurisdictions.
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Action 1.3: Obtain and upgrade early warning systems and improved communication systems as funding allows.

Action Worksheet	
Name of Jurisdiction:	Cuba
Risk / Vulnerability	
Problem being Mitigated:	Need to improve warning and communications systems throughout the county.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.3
Name of Action or Project:	Obtain and upgrade early warning systems and improved communication systems.
Action or Project Description:	Obtain and upgrade early warning systems and improved communication systems as funding allows, including tornado sirens and text and phone systems.
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, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	EMD, Mayor, Board of Aldermen
Action/Project Priority:	22 – High Priority
Timeline for Completion:	On-going – five 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, Hazard Mitigation Plan
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Currently there are five storm sirens in Cuba. The city also has Rave and Smart 911. The city needs to continue to work to improve communications systems within the city to improve city-wide as well as state-wide communications during disasters and joint response efforts.

Action 1.7: Upgrade roads and bridges that would reduce danger to residents during occurrences of natural disasters as funding allows.

Action Worksheet	
Name of Jurisdiction:	Cuba
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with poor road infrastructure, including bridges and low water crossings, during flood and earthquakes events.
Hazard(s) Addressed:	Floods and Earthquake
Action or Project	
Action/Project Number:	1.7
Name of Action or Project:	Upgrade road and bridge upgrades for potential mitigation actions
Action or Project Description:	Upgrade roads and bridges that would reduce danger to residents during occurrences of natural disasters as funding allows.
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, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Mayor, Board of Aldermen, Public Works Department
Action/Project Priority:	28 – 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, capital improvement plan
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The city works to upgrade road and bridge projects as funding allows.

Action 1.8: Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows

Action Worksheet	
Name of Jurisdiction:	Cuba
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/tornados.
Hazard(s) Addressed:	Severe Storms and Tornados
Action or Project	
Action/Project Number:	1.8
Name of Action or Project:	Increasing the number of certified tornado safe rooms and storm shelters in high population areas
Action or Project Description:	Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows
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:	EMD, Mayor, Board of Aldermen
Action/Project Priority:	24 – High Priority
Timeline for Completion:	1 – 10 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, capital improvement plan
Progress Report	
Action Status	Revised – No progress
Report of Progress	Due to the high cost of construction of certified tornado safe rooms, this action item has not made progress. There are no FEMA certified tornado shelters in Bourbon.

Action 1.10: Continued compliance with NFIP requirements.

Action Worksheet	
Name of Jurisdiction:	Cuba
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of compliance with NFIP requirements.
Hazard(s) Addressed:	Flooding
Action or Project	
Action/Project Number:	1.10
Name of Action or Project:	NFIP compliance
Action or Project Description:	Continued compliance with NFIP requirements.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$4,000 - \$8,000
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:	Floodplain Manager, Mayor, Board of Aldermen
Action/Project Priority:	24 – 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, LEOP, floodplain ordinance
Progress Report	
Action Status	New - Continuing
Report of Progress	Cuba continues to comply with NFIP requirements in order to remain a member in good standing.

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

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:	Cuba
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with the general public not being aware of the dangers of floodplain development and benefits of the NFIP.
Hazard(s) Addressed:	Flooding
Action or Project	
Action/Project Number:	2.2
Name of Action or Project:	Floodplain education/awareness program.
Action or Project Description:	Distribute FEMA brochures and factsheets about the National Flood Insurance Program (NFIP) at public offices and community events.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$500 - \$1,500
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:	Floodplain Manager
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 years
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, LEOP, floodplain management ordinance
Progress Report	
Action Status	Revised – Continuing
Report of Progress	No progress.

Action 2.4: Revise floodplain ordinances to require securing hazardous material tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.

Action Worksheet	
Name of Jurisdiction:	Cuba
Risk / Vulnerability	
Problem being Mitigated:	Unsecured hazardous materials tank such as propane and unsecured mobile homes pose risks during floods, severe storms and tornadoes.
Hazard(s) Addressed:	Floods, Severe Storms, Tornadoes
Action or Project	
Action/Project Number:	2.4
Name of Action or Project:	Establishing regulations for the securing of hazardous materials tanks and mobile homes.
Action or Project Description:	Revise floodplain ordinances to require securing hazardous material tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	\$1,500 - \$5,000
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, Mayor, Board of Aldermen
Action/Project Priority:	24 –High Priority
Timeline for Completion:	1 – 5 years
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, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	No progress

Action 2.5: Require contractor stormwater management plans in all new development.

Action Worksheet	
Name of Jurisdiction:	Cuba
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of stormwater management and infrastructure.
Hazard(s) Addressed:	Floods, Severe Storms
Action or Project	
Action/Project Number:	2.5
Name of Action or Project:	Contractor stormwater management plan requirements.
Action or Project Description:	Require contractor stormwater management plans in all new development.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	\$1,500 - \$10,000
Benefits:	Losses avoided by implementing this action include property damages, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Mayor, Board of Aldermen, Local Planners, Public Works
Action/Project Priority:	22 –High Priority
Timeline for Completion:	5 – 10 years
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, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Cuba does not have a stormwater ordinance and does not specifically require stormwater management plans for new development.

Action 5.5 [2.6]: Purchase properties in the floodplain to convert land into public space/recreation areas as funds allow.

Action Worksheet	
Name of Jurisdiction:	Cuba
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with properties located in the floodplain.
Hazard(s) Addressed:	Flood
Action or Project	
Action/Project Number:	5.5 [2.6]
Name of Action or Project:	Floodplain buyout
Action or Project Description:	Purchase properties in the floodplain and convert land into public space/recreation area as funds allow.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	Unknown
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:	Mayor, Board of Aldermen, Floodplain Manager
Action/Project Priority:	22 –High Priority
Timeline for Completion:	On-going - Unknown
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, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Not started.

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

Action 3.4: Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.

Action Worksheet	
Name of Jurisdiction:	Cuba
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of synergy for planning, implementing and budgeting for hazard mitigation projects and for including mitigation in all economic and community development projects.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.4
Name of Action or Project:	Planning activities for hazard mitigation for local elected officials and planning organizations
Action or Project Description:	Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$50 - \$250
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:	Mayor, EMD
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 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, floodplain ordinance, CEDS
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The Region I SEMA area coordinator conducts quarterly meetings in the region and has included hazard mitigation in those meetings. In addition, MRPC has had presentations on hazard mitigation at its meetings that included representatives

	from Crawford County. This program would benefit from a more focused effort to hold meetings centered on hazard mitigation.
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Action 3.6: Distribute information about hazard mitigation projects to the public through press releases and social media.

Action Worksheet	
Name of Jurisdiction:	Cuba
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with the public's lack of knowledge in regards to hazard mitigation and the benefits of adopting mitigation measures.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.6
Name of Action or Project:	Awareness program on local mitigation activities.
Action or Project Description:	Distribute information about hazard mitigation projects to the public through press releases and social media.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$200-\$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:	EMD, Mayor, Public Works
Action/Project Priority:	28 –High Priority
Timeline for Completion:	On-going – 1 – 5 years
Potential Fund Sources:	Local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	LEOP, hazard mitigation plan, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The city regularly does press releases on road and bridge improvements that mitigate problems with drainage and flooding.

Action 4.3 [3.7]: Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.

Action Worksheet	
Name of Jurisdiction:	Cuba
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with lack of MOUs between jurisdictions and agencies to provide support during disasters.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	4.3 [3.7]
Name of Action or Project:	Adoption of Memorandums of Understanding
Action or Project Description:	Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
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:	EMD, Mayor, Board of Aldermen
Action/Project Priority:	27 – High Priority
Timeline for Completion:	On-going 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	Revised - Continuing
Report of Progress	Some MOUs are in place for local volunteer fire departments. This program would benefit from MOUs for: public works assistance, transportation for evacuations; emergency supplies such as water and food; and formal agreements with local churches, schools or other facilities that could serve as emergency shelters.

Action 3.8: Purchase generators for all critical infrastructure facilities as funding allows.

Action Worksheet	
Name of Jurisdiction:	Cuba
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with loss of power to critical infrastructure and facilities.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.8
Name of Action or Project:	Purchase generators for all critical infrastructure and facilities.
Action or Project Description:	Purchase generators for all critical infrastructure facilities as funding allows.
Applicable Goal Statement:	Secure resources for investment in hazard mitigation.
Estimated Cost:	\$8,000 - \$75,000
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:	EMD, Mayor, Board of Aldermen, Public Works
Action/Project Priority:	24 – 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:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	New
Report of Progress	The city has three fixed generators.

Leasburg

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

Action 1.1: Local emergency management directors will coordinate education programs in schools and distribute brochures on natural disasters and emergency preparedness at all public offices.

Action Worksheet	
Name of Jurisdiction:	Leasburg
Risk / Vulnerability	
Problem being Mitigated:	Risks and hazards associated with residents unprepared to manage on their own for up to 72 hours following an event – especially an event which results in power outage or loss of utilities.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.1
Name of Action or Project:	Education/Awareness Program on Natural Hazards and Personal Preparedness
Action or Project Description:	Local emergency responders and EMDs will promote Ready in 3 and other personal preparedness education programs through the distribution of brochures, press releases and presentations at special events and schools and through the county health department and local government offices.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$500 - \$3,500 estimated cost
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:	EMD and county health department
Action/Project Priority:	27 – 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, LEOP
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Activity has occurred in this area as most emergency response agencies, the health department and EMDs promote individual preparedness and provide <i>Ready in 3</i> brochures. SEMA distributes press releases periodically on personal preparedness. The county health department posts information on their website,

	and FaceBook pages. A more focused and coordinated effort would help to achieve comprehensive coverage for all the jurisdictions.
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Action 1.3: Obtain and upgrade early warning systems and improved communication systems as funding allows.

Action Worksheet	
Name of Jurisdiction:	Leasburg
Risk / Vulnerability	
Problem being Mitigated:	Need to improve warning and communications systems throughout the county.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.3
Name of Action or Project:	Obtain and upgrade early warning systems and improved communication systems.
Action or Project Description:	Obtain and upgrade early warning systems and improved communication systems as funding allows, including tornado sirens and text and phone systems.
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, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	EMD, Chairman, Board of Trustees
Action/Project Priority:	22 – High Priority
Timeline for Completion:	On-going – five 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, Hazard Mitigation Plan
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Currently there is one storm siren in Leasburg. The city does not have a phone/text-based warning system. The city needs to continue to work to improve communications systems within the city to improve city-wide as well as state-wide communications during disasters and joint response efforts.

Action 1.7: Upgrade roads and bridges that would reduce danger to residents during occurrences of natural disasters as funding allows.

Action Worksheet	
Name of Jurisdiction:	Leasburg
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with poor road infrastructure, including bridges and low water crossings, during flood and earthquakes events.
Hazard(s) Addressed:	Floods and Earthquake
Action or Project	
Action/Project Number:	1.7
Name of Action or Project:	Upgrade road and bridge upgrades for potential mitigation actions
Action or Project Description:	Upgrade roads and bridges that would reduce danger to residents during occurrences of natural disasters as funding allows.
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, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Chair, Board of Trustees, Public Works Department
Action/Project Priority:	28 – 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, capital improvement plan
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The city works to upgrade road and bridge projects as funding allows.

Action 1.8: Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows

Action Worksheet	
Name of Jurisdiction:	Leasburg
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/tornados.
Hazard(s) Addressed:	Severe Storms and Tornados
Action or Project	
Action/Project Number:	1.8
Name of Action or Project:	Increasing the number of certified tornado safe rooms and storm shelters in high population areas
Action or Project Description:	Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows
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:	EMD, Chair, Board of Trustees
Action/Project Priority:	24 – High Priority
Timeline for Completion:	1 – 10 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, capital improvement plan
Progress Report	
Action Status	Revised – No progress
Report of Progress	Due to the high cost of construction of certified tornado safe rooms, this action item has not made progress. There are no FEMA certified tornado shelters in Leasburg.

Action 1.10: Continued compliance with NFIP requirements.

Action Worksheet	
Name of Jurisdiction:	Leasburg
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of compliance with NFIP requirements.
Hazard(s) Addressed:	Flooding
Action or Project	
Action/Project Number:	1.10
Name of Action or Project:	NFIP compliance
Action or Project Description:	Continued compliance with NFIP requirements.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$4,000 - \$8,000
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:	Floodplain Manager, Chair, Board of Trustees
Action/Project Priority:	24 – 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, LEOP, floodplain ordinance
Progress Report	
Action Status	New - Continuing
Report of Progress	Leasburg continues to comply with NFIP requirements in order to remain a member in good standing.

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

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:	Leasburg
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with the general public not being aware of the dangers of floodplain development and benefits of the NFIP.
Hazard(s) Addressed:	Flooding
Action or Project	
Action/Project Number:	2.2
Name of Action or Project:	Floodplain education/awareness program.
Action or Project Description:	Distribute FEMA brochures and factsheets about the National Flood Insurance Program (NFIP) at public offices and community events.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$500 - \$1,500
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:	Floodplain Manager
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 years
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, LEOP, floodplain management ordinance
Progress Report	
Action Status	Revised – Continuing
Report of Progress	No progress.

Action 2.4: Revise floodplain ordinances to require securing hazardous material tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.

Action Worksheet	
Name of Jurisdiction:	Leasburg
Risk / Vulnerability	
Problem being Mitigated:	Unsecured hazardous materials tank such as propane and unsecured mobile homes pose risks during floods, severe storms and tornadoes.
Hazard(s) Addressed:	Floods, Severe Storms, Tornadoes
Action or Project	
Action/Project Number:	2.4
Name of Action or Project:	Establishing regulations for the securing of hazardous materials tanks and mobile homes.
Action or Project Description:	Revise floodplain ordinances to require securing hazardous material tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	\$1,500 - \$5,000
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, Chair, Board of Trustees
Action/Project Priority:	24 –High Priority
Timeline for Completion:	1 – 5 years
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, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	No progress

Action 2.5: Require contractor stormwater management plans in all new development.

Action Worksheet	
Name of Jurisdiction:	Leasburg
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of stormwater management and infrastructure.
Hazard(s) Addressed:	Floods, Severe Storms
Action or Project	
Action/Project Number:	2.5
Name of Action or Project:	Contractor stormwater management plan requirements.
Action or Project Description:	Require contractor stormwater management plans in all new development.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	\$1,500 - \$10,000
Benefits:	Losses avoided by implementing this action include property damages, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Chair, Board of Aldermen, Local Planners, Public Works
Action/Project Priority:	22 –High Priority
Timeline for Completion:	5 – 10 years
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, floodplain ordinance
Progress Report	
Action Status	Revised – Continuing
Report of Progress	Leasburg does not have a stormwater ordinance and does not require stormwater management plans for new development.

Action 5.5 [2.6]: Purchase properties in the floodplain to convert land into public space/recreation areas as funds allow.

Action Worksheet	
Name of Jurisdiction:	Leasburg
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with properties located in the floodplain.
Hazard(s) Addressed:	Flood
Action or Project	
Action/Project Number:	5.5 [2.6]
Name of Action or Project:	Floodplain buyout
Action or Project Description:	Purchase properties in the floodplain and convert land into public space/recreation area as funds allow.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	Unknown
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:	Chair, Board of Trustees, Floodplain Manager
Action/Project Priority:	22 –High Priority
Timeline for Completion:	On-going - Unknown
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, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Not started.

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

Action 3.4: Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.

Action Worksheet	
Name of Jurisdiction:	Leasburg
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of synergy for planning, implementing and budgeting for hazard mitigation projects and for including mitigation in all economic and community development projects.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.4
Name of Action or Project:	Planning activities for hazard mitigation for local elected officials and planning organizations
Action or Project Description:	Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$50 - \$250
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:	Chair, EMD
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 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, floodplain ordinance, CEDS
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The Region I SEMA area coordinator conducts quarterly meetings in the region and has included hazard mitigation in those meetings. In addition, MRPC has had presentations on hazard mitigation at its meetings that included representatives

	from Crawford County. This program would benefit from a more focused effort to hold meetings centered on hazard mitigation.
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Action 3.6: Distribute information about hazard mitigation projects to the public through press releases and social media.

Action Worksheet	
Name of Jurisdiction:	Leasburg
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with the public's lack of knowledge in regards to hazard mitigation and the benefits of adopting mitigation measures.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.6
Name of Action or Project:	Awareness program on local mitigation activities.
Action or Project Description:	Distribute information about hazard mitigation projects to the public through press releases and social media.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$200-\$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:	EMD, Chair
Action/Project Priority:	28 –High Priority
Timeline for Completion:	On-going – 1 – 5 years
Potential Fund Sources:	Local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	LEOP, hazard mitigation plan, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The city could make a greater effort to inform the public of any projects that mitigate problems with drainage and flooding.

Action 4.3 [3.7]: Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.

Action Worksheet	
Name of Jurisdiction:	Leasburg
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with lack of MOUs between jurisdictions and agencies to provide support during disasters.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	4.3 [3.7]
Name of Action or Project:	Adoption of Memorandums of Understanding
Action or Project Description:	Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
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:	EMD, Chair, Board of Trustees
Action/Project Priority:	27 – High Priority
Timeline for Completion:	On-going 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	Revised - Continuing
Report of Progress	Some MOUs are in place for local volunteer fire departments. This program would benefit from MOUs for: public works assistance, transportation for evacuations; emergency supplies such as water and food; and formal agreements with local churches, schools or other facilities that could serve as emergency shelters.

Action 3.8: Purchase generators for all critical infrastructure facilities as funding allows.

Action Worksheet	
Name of Jurisdiction:	Leasburg
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with loss of power to critical infrastructure and facilities.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.8
Name of Action or Project:	Purchase generators for all critical infrastructure and facilities.
Action or Project Description:	Purchase generators for all critical infrastructure facilities as funding allows.
Applicable Goal Statement:	Secure resources for investment in hazard mitigation.
Estimated Cost:	\$8,000 - \$75,000
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:	EMD, Chair, Board of Trustees, Public Works
Action/Project Priority:	24 – 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:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	New
Report of Progress	The city does not currently own any generators.

Steelville

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

Action 1.1: Local emergency management directors will coordinate education programs in schools and distribute brochures on natural disasters and emergency preparedness at all public offices.

Action Worksheet	
Name of Jurisdiction:	Steelville
Risk / Vulnerability	
Problem being Mitigated:	Risks and hazards associated with residents unprepared to manage on their own for up to 72 hours following an event – especially an event which results in power outage or loss of utilities.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.1
Name of Action or Project:	Education/Awareness Program on Natural Hazards and Personal Preparedness
Action or Project Description:	Local emergency responders and EMDs will promote Ready in 3 and other personal preparedness education programs through the distribution of brochures, press releases and presentations at special events and schools and through the county health department and local government offices.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$500 -\$3,500 estimated cost
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:	EMD and health department
Action/Project Priority:	27 – 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, LEOP
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Activity has occurred in this area as most emergency response agencies, the health department and EMDs promote individual preparedness and provide <i>Ready in 3</i> brochures. SEMA distributes press releases periodically on personal preparedness. The county health department posts information on their website,

	and FaceBook pages. A more focused and coordinated effort would help to achieve comprehensive coverage for all the jurisdictions.
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Action 1.3: Obtain and upgrade early warning systems and improved communication systems as funding allows.

Action Worksheet	
Name of Jurisdiction:	Steelville
Risk / Vulnerability	
Problem being Mitigated:	Need to improve warning and communications systems throughout the county.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.3
Name of Action or Project:	Obtain and upgrade early warning systems and improved communication systems.
Action or Project Description:	Obtain and upgrade early warning systems and improved communication systems as funding allows, including tornado sirens and text and phone systems.
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, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	EMD, Mayor, Board of Aldermen
Action/Project Priority:	22 – High Priority
Timeline for Completion:	On-going – five 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, Hazard Mitigation Plan
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Currently there are six storm sirens in Steelville. The city does not have a phone/text-based warning system. The city needs to continue to work to improve communications systems within the city to improve city-wide as well as state-wide communications during disasters and joint response efforts.

Action 1.7: Upgrade roads and bridges that would reduce danger to residents during occurrences of natural disasters as funding allows.

Action Worksheet	
Name of Jurisdiction:	Steelville
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with poor road infrastructure, including bridges and low water crossings, during flood and earthquakes events.
Hazard(s) Addressed:	Floods and Earthquake
Action or Project	
Action/Project Number:	1.7
Name of Action or Project:	Upgrade road and bridge upgrades for potential mitigation actions
Action or Project Description:	Upgrade roads and bridges that would reduce danger to residents during occurrences of natural disasters as funding allows.
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, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Mayor, Board of Aldermen, Public Works Department
Action/Project Priority:	28 – 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, capital improvement plan
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The city works to upgrade road and bridge projects as funding allows. The city has done streambank stabilization projects and streambank reinforcement projects around bridges in the past five years.

Action 1.8: Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows

Action Worksheet	
Name of Jurisdiction:	Steelville
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/tornados.
Hazard(s) Addressed:	Severe Storms and Tornados
Action or Project	
Action/Project Number:	1.8
Name of Action or Project:	Increasing the number of certified tornado safe rooms and storm shelters in high population areas
Action or Project Description:	Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows
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:	EMD, Mayor, Board of Aldermen
Action/Project Priority:	24 – High Priority
Timeline for Completion:	1 – 10 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, capital improvement plan
Progress Report	
Action Status	Revised – No progress
Report of Progress	Due to the high cost of construction of certified tornado safe rooms, this action item has not made progress. There are no FEMA certified tornado shelters in Steelville.

Action 1.10: Continued compliance with NFIP requirements.

Action Worksheet	
Name of Jurisdiction:	Steelville
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of compliance with NFIP requirements.
Hazard(s) Addressed:	Flooding
Action or Project	
Action/Project Number:	1.10
Name of Action or Project:	NFIP compliance
Action or Project Description:	Continued compliance with NFIP requirements.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$4,000 - \$8,000
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:	Floodplain Manager, Mayor, Board of Aldermen
Action/Project Priority:	24 – 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, LEOP, floodplain ordinance
Progress Report	
Action Status	New - Continuing
Report of Progress	Steelville continues to comply with NFIP requirements in order to remain a member in good standing.

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

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:	Steelville
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with the general public not being aware of the dangers of floodplain development and benefits of the NFIP.
Hazard(s) Addressed:	Flooding
Action or Project	
Action/Project Number:	2.2
Name of Action or Project:	Floodplain education/awareness program.
Action or Project Description:	Distribute FEMA brochures and factsheets about the National Flood Insurance Program (NFIP) at public offices and community events.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$500 - \$1,500
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:	Floodplain Manager
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 years
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, LEOP, floodplain management ordinance
Progress Report	
Action Status	Revised – Continuing
Report of Progress	No progress.

Action 2.4: Revise floodplain ordinances to require securing hazardous material tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.

Action Worksheet	
Name of Jurisdiction:	Steelville
Risk / Vulnerability	
Problem being Mitigated:	Unsecured hazardous materials tank such as propane and unsecured mobile homes pose risks during floods, severe storms and tornadoes.
Hazard(s) Addressed:	Floods, Severe Storms, Tornadoes
Action or Project	
Action/Project Number:	2.4
Name of Action or Project:	Establishing regulations for the securing of hazardous materials tanks and mobile homes.
Action or Project Description:	Revise floodplain ordinances to require securing hazardous material tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	\$1,500 - \$5,000
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, Mayor, Board of Aldermen
Action/Project Priority:	24 –High Priority
Timeline for Completion:	1 – 5 years
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, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	No progress

Action 2.5: Require contractor stormwater management plans in all new development.

Action Worksheet	
Name of Jurisdiction:	Steelville
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of stormwater management and infrastructure.
Hazard(s) Addressed:	Floods, Severe Storms
Action or Project	
Action/Project Number:	2.5
Name of Action or Project:	Contractor stormwater management plan requirements.
Action or Project Description:	Require contractor stormwater management plans in all new development.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	\$1,500 - \$10,000
Benefits:	Losses avoided by implementing this action include property damages, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Mayor, Board of Aldermen, Local Planners, Public Works
Action/Project Priority:	22 –High Priority
Timeline for Completion:	5 – 10 years
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, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Steelville has a stormwater ordinance but does not specifically require stormwater management plans for new development.

Action 5.5 [2.6]: Purchase properties in the floodplain to convert land into public space/recreation areas as funds allow.

Action Worksheet	
Name of Jurisdiction:	Steelville
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with properties located in the floodplain.
Hazard(s) Addressed:	Flood
Action or Project	
Action/Project Number:	5.5 [2.6]
Name of Action or Project:	Floodplain buyout
Action or Project Description:	Purchase properties in the floodplain and convert land into public space/recreation area as funds allow.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	Unknown
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:	Mayor, Board of Aldermen, Floodplain Manager
Action/Project Priority:	22 –High Priority
Timeline for Completion:	On-going - Unknown
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, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Not started.

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

Action 3.4: Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.

Action Worksheet	
Name of Jurisdiction:	Steelville
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of synergy for planning, implementing and budgeting for hazard mitigation projects and for including mitigation in all economic and community development projects.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.4
Name of Action or Project:	Planning activities for hazard mitigation for local elected officials and planning organizations
Action or Project Description:	Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$50 - \$250
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:	Mayor, EMD
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 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, floodplain ordinance, CEDS
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The Region I SEMA area coordinator conducts quarterly meetings in the region and has included hazard mitigation in those meetings. In addition, MRPC has had presentations on

	hazard mitigation at its meetings that included representatives from Crawford County. This program would benefit from a more focused effort to hold meetings centered on hazard mitigation.
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Action 3.6: Distribute information about hazard mitigation projects to the public through press releases and social media.

Action Worksheet	
Name of Jurisdiction:	Steelville
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with the public's lack of knowledge in regards to hazard mitigation and the benefits of adopting mitigation measures.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.6
Name of Action or Project:	Awareness program on local mitigation activities.
Action or Project Description:	Distribute information about hazard mitigation projects to the public through press releases and social media.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$200-\$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, County Commission
Action/Project Priority:	28 –High Priority
Timeline for Completion:	On-going – 1 – 5 years
Potential Fund Sources:	Local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	LEOP, hazard mitigation plan, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The city regularly does press releases on road and bridge and public works improvements that mitigate problems with drainage and flooding.

Action 4.3 [3.7]: Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.

Action Worksheet	
Name of Jurisdiction:	Steelville
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with lack of MOUs between jurisdictions and agencies to provide support during disasters.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	4.3 [3.7]
Name of Action or Project:	Adoption of Memorandums of Understanding
Action or Project Description:	Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
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:	EMD, Mayor, Board of Aldermen
Action/Project Priority:	27 – High Priority
Timeline for Completion:	On-going 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	Revised - Continuing
Report of Progress	Some MOUs are in place for local volunteer fire departments. This program would benefit from MOUs for: public works assistance, transportation for evacuations; emergency supplies such as water and food; and formal agreements with local churches, schools or other facilities that could serve as emergency shelters.

Action 3.8: Purchase generators for all critical infrastructure facilities as funding allows.

Action Worksheet	
Name of Jurisdiction:	Steelville
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with loss of power to critical infrastructure and facilities.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.8
Name of Action or Project:	Purchase generators for all critical infrastructure and facilities.
Action or Project Description:	Purchase generators for all critical infrastructure facilities as funding allows.
Applicable Goal Statement:	Secure resources for investment in hazard mitigation.
Estimated Cost:	\$8,000 - \$75,000
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:	EMD, Mayor, Board of Aldermen, Public Works
Action/Project Priority:	24 – 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:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	New
Report of Progress	The city does not currently own any generators.

Sullivan

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

Action 1.1: Local emergency management directors will coordinate education programs in schools and distribute brochures on natural disasters and emergency preparedness at all public offices.

Action Worksheet	
Name of Jurisdiction:	Sullivan
Risk / Vulnerability	
Problem being Mitigated:	Risks and hazards associated with residents unprepared to manage on their own for up to 72 hours following an event – especially an event which results in power outage or loss of utilities.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.1
Name of Action or Project:	Education/Awareness Program on Natural Hazards and Personal Preparedness
Action or Project Description:	Local emergency responders and EMDs will promote Ready in 3 and other personal preparedness education programs through the distribution of brochures, press releases and presentations at special events and schools and through the county health department and local government offices.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$500 -\$3,500 estimated cost
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:	EMD and health department
Action/Project Priority:	27 – 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, LEOP
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Activity has occurred in this area as most emergency response agencies, the health department and EMDs promote individual preparedness and provide <i>Ready in 3</i> brochures. SEMA distributes press releases periodically on personal preparedness. The county health department posts information on their website,

	and FaceBook pages. A more focused and coordinated effort would help to achieve comprehensive coverage for all the jurisdictions.
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Action 1.3: Obtain and upgrade early warning systems and improved communication systems as funding allows.

Action Worksheet	
Name of Jurisdiction:	Sullivan
Risk / Vulnerability	
Problem being Mitigated:	Need to improve warning and communications systems throughout the county.
Hazard(s) Addressed:	All Hazards
Action or Project	
Action/Project Number:	1.3
Name of Action or Project:	Obtain and upgrade early warning systems and improved communication systems.
Action or Project Description:	Obtain and upgrade early warning systems and improved communication systems as funding allows, including tornado sirens and text and phone systems.
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, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	EMD, Mayor, City Council
Action/Project Priority:	22 – High Priority
Timeline for Completion:	On-going – five 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, Hazard Mitigation Plan
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Currently there are four storm sirens in Sullivan. The city also has a phone/text-based warning system - Nixle. The city needs to continue to work to improve communications systems within the city to improve city-wide as well as state-wide communications during disasters and joint response efforts.

Action 1.7: Upgrade roads and bridges that would reduce danger to residents during occurrences of natural disasters as funding allows.

Action Worksheet	
Name of Jurisdiction:	Sullivan
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with poor road infrastructure, including bridges and low water crossings, during flood and earthquakes events.
Hazard(s) Addressed:	Floods and Earthquake
Action or Project	
Action/Project Number:	1.7
Name of Action or Project:	Upgrade road and bridge upgrades for potential mitigation actions
Action or Project Description:	Upgrade roads and bridges that would reduce danger to residents during occurrences of natural disasters as funding allows.
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, property damages, loss-of-function/displacement impacts, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Mayor, City Council, Public Works Department
Action/Project Priority:	28 – 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, capital improvement plan
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The city works to upgrade road and bridge projects as funding allows.

Action 1.8: Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows

Action Worksheet	
Name of Jurisdiction:	Sullivan
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/tornados.
Hazard(s) Addressed:	Severe Storms and Tornados
Action or Project	
Action/Project Number:	1.8
Name of Action or Project:	Increasing the number of certified tornado safe rooms and storm shelters in high population areas
Action or Project Description:	Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows
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:	EMD, Mayor, City Council
Action/Project Priority:	24 – High Priority
Timeline for Completion:	1 – 10 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, capital improvement plan
Progress Report	
Action Status	Revised – No progress
Report of Progress	Due to the high cost of construction of certified tornado safe rooms, this action item has not made progress. There are no FEMA certified tornado shelters in Sullivan.

Action 1.10: Continued compliance with NFIP requirements.

Action Worksheet	
Name of Jurisdiction:	Sullivan
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of compliance with NFIP requirements.
Hazard(s) Addressed:	Flooding
Action or Project	
Action/Project Number:	1.10
Name of Action or Project:	NFIP compliance
Action or Project Description:	Continued compliance with NFIP requirements.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and livelihoods of the citizens of the county.
Estimated Cost:	\$4,000 - \$8,000
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:	Floodplain Manager, Mayor, City Council
Action/Project Priority:	24 – 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, LEOP, floodplain ordinance
Progress Report	
Action Status	New - Continuing
Report of Progress	Sullivan continues to comply with NFIP requirements in order to remain a member in good standing.

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

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:	Sullivan
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with the general public not being aware of the dangers of floodplain development and benefits of the NFIP.
Hazard(s) Addressed:	Flooding
Action or Project	
Action/Project Number:	2.2
Name of Action or Project:	Floodplain education/awareness program.
Action or Project Description:	Distribute FEMA brochures and factsheets about the National Flood Insurance Program (NFIP) at public offices and community events.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.
Estimated Cost:	\$500 - \$1,500
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:	Floodplain Manager
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 years
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, LEOP, floodplain management ordinance
Progress Report	
Action Status	Revised – Continuing
Report of Progress	No progress.

Action 2.4: Revise floodplain ordinances to require securing hazardous material tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.

Action Worksheet	
Name of Jurisdiction:	Sullivan
Risk / Vulnerability	
Problem being Mitigated:	Unsecured hazardous materials tank such as propane and unsecured mobile homes pose risks during floods, severe storms and tornadoes.
Hazard(s) Addressed:	Floods, Severe Storms, Tornadoes
Action or Project	
Action/Project Number:	2.4
Name of Action or Project:	Establishing regulations for the securing of hazardous materials tanks and mobile homes.
Action or Project Description:	Revise floodplain ordinances to require securing hazardous material tanks and mobile homes in floodplain areas to reduce hazards during storms and flooding.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	\$1,500 - \$5,000
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, Mayor, City Council
Action/Project Priority:	24 –High Priority
Timeline for Completion:	1 – 5 years
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, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	No progress

Action 2.5: Require contractor stormwater management plans in all new development.

Action Worksheet	
Name of Jurisdiction:	Sullivan
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of stormwater management and infrastructure.
Hazard(s) Addressed:	Floods, Severe Storms
Action or Project	
Action/Project Number:	2.5
Name of Action or Project:	Contractor stormwater management plan requirements.
Action or Project Description:	Require contractor stormwater management plans in all new development.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	\$1,500 - \$10,000
Benefits:	Losses avoided by implementing this action include property damages, and emergency management costs/community costs.
Plan for Implementation	
Responsible Organization/Department:	Mayor, City Council, Local Planners, Public Works
Action/Project Priority:	22 –High Priority
Timeline for Completion:	5 – 10 years
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, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Sullivan has a stormwater ordinance in place.

Action 5.5 [2.6]: Purchase properties in the floodplain to convert land into public space/recreation areas as funds allow.

Action Worksheet	
Name of Jurisdiction:	Sullivan
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with properties located in the floodplain.
Hazard(s) Addressed:	Flood
Action or Project	
Action/Project Number:	5.5 [2.6]
Name of Action or Project:	Floodplain buyout
Action or Project Description:	Purchase properties in the floodplain and convert land into public space/recreation area as funds allow.
Applicable Goal Statement:	Reduce the potential impact of natural disasters to property, infrastructure, and the local economy.
Estimated Cost:	Unknown
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:	Mayor, City Council, Floodplain Manager
Action/Project Priority:	22 –High Priority
Timeline for Completion:	On-going - Unknown
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, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Not started.

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

Action 3.4: Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.

Action Worksheet	
Name of Jurisdiction:	Sullivan
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of synergy for planning, implementing and budgeting for hazard mitigation projects and for including mitigation in all economic and community development projects.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.4
Name of Action or Project:	Planning activities for hazard mitigation for local elected officials and planning organizations
Action or Project Description:	Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$50 - \$250
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:	Mayor, EMD
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 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, floodplain ordinance, CEDS
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The Region I SEMA area coordinator conducts quarterly meetings in the region and has included hazard mitigation in those meetings. In addition, MRPC has had presentations on hazard mitigation at its meetings that included representatives

	from Crawford County. This program would benefit from a more focused effort to hold meetings centered on hazard mitigation.
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Action 3.6: Distribute information about hazard mitigation projects to the public through press releases and social media.

Action Worksheet	
Name of Jurisdiction:	Sullivan
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with the public's lack of knowledge in regards to hazard mitigation and the benefits of adopting mitigation measures.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.6
Name of Action or Project:	Awareness program on local mitigation activities.
Action or Project Description:	Distribute information about hazard mitigation projects to the public through press releases and social media.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$200-\$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:	EMD, Mayor
Action/Project Priority:	28 –High Priority
Timeline for Completion:	On-going – 1 – 5 years
Potential Fund Sources:	Local general revenue funds, and private donations of cash, goods, or services.
Local Planning Mechanisms to be Used in Implementation, if any:	LEOP, hazard mitigation plan, floodplain ordinance
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The city regularly does press releases on road and bridge and infrastructure improvements that mitigate problems with drainage and flooding.

Action 4.3 [3.7]: Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.

Action Worksheet	
Name of Jurisdiction:	Sullivan
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with lack of MOUs between jurisdictions and agencies to provide support during disasters.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	4.3 [3.7]
Name of Action or Project:	Adoption of Memorandums of Understanding
Action or Project Description:	Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
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:	EMD, Mayor, City Council
Action/Project Priority:	27 – High Priority
Timeline for Completion:	On-going 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	Revised - Continuing
Report of Progress	Some MOUs are in place for local volunteer fire departments. This program would benefit from MOUs for: public works assistance, transportation for evacuations; emergency supplies such as water and food; and formal agreements with local churches, schools or other facilities that could serve as emergency shelters.

Action 3.8: Purchase generators for all critical infrastructure facilities as funding allows.

Action Worksheet	
Name of Jurisdiction:	Sullivan
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with loss of power to critical infrastructure and facilities.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.8
Name of Action or Project:	Purchase generators for all critical infrastructure and facilities.
Action or Project Description:	Purchase generators for all critical infrastructure facilities as funding allows.
Applicable Goal Statement:	Secure resources for investment in hazard mitigation.
Estimated Cost:	\$8,000 - \$75,000
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:	EMD, Mayor, City Council, Public Works
Action/Project Priority:	24 – 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:	Hazard Mitigation Plan, LEOP
Progress Report	
Action Status	New
Report of Progress	The city currently has four fixed generators and one portable generator.

Crawford County R-I School District

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

Action 1.8: Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows

Action Worksheet	
Name of Jurisdiction:	Crawford County R-I School District
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/tornados.
Hazard(s) Addressed:	Severe Storms and Tornados
Action or Project	
Action/Project Number:	1.8
Name of Action or Project:	Increasing the number of certified tornado safe rooms and storm shelters in high population areas
Action or Project Description:	Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows
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:	Superintendent, School Board
Action/Project Priority:	24 – High Priority
Timeline for Completion:	1 – 10 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, school budget
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Due to the high cost of construction of certified tornado safe rooms, this action item has not made progress.

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

Action 3.4: Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.

Action Worksheet	
Name of Jurisdiction:	Crawford County R-I School District
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of synergy for planning, implementing and budgeting for hazard mitigation projects and for including mitigation in all economic and community development projects.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.4
Name of Action or Project:	Planning activities for hazard mitigation for local elected officials and planning organizations
Action or Project Description:	Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$50 - \$250
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:	Superintendent, School Board
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 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, floodplain ordinance, CEDS
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The Region I SEMA area coordinator conducts quarterly meetings in the region and has included hazard mitigation in those meetings. In addition, MRPC has had presentations on hazard mitigation at its meetings that included representatives

	from Crawford County. This program would benefit from a more focused effort to hold meetings centered on hazard mitigation.
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Action 4.3 [3.7]: Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.

Action Worksheet	
Name of Jurisdiction:	Crawford County R-I School District
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with lack of MOUs between jurisdictions and agencies to provide support during disasters.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	4.3 [3.7]
Name of Action or Project:	Adoption of Memorandums of Understanding
Action or Project Description:	Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
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:	Superintendent, School Board
Action/Project Priority:	27 – High Priority
Timeline for Completion:	On-going 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	Revised - Continuing
Report of Progress	No progress.

Crawford County R-II School District

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

Action 1.8: Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows

Action Worksheet	
Name of Jurisdiction:	Crawford County R-II School District
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/tornados.
Hazard(s) Addressed:	Severe Storms and Tornados
Action or Project	
Action/Project Number:	1.8
Name of Action or Project:	Increasing the number of certified tornado safe rooms and storm shelters in high population areas
Action or Project Description:	Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows
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:	Superintendent, School Board
Action/Project Priority:	24 – High Priority
Timeline for Completion:	1 – 10 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, school budget
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Due to the high cost of construction of certified tornado safe rooms, this action item has not made progress.

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

Action 3.4: Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.

Action Worksheet	
Name of Jurisdiction:	Crawford County R-II School District
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of synergy for planning, implementing and budgeting for hazard mitigation projects and for including mitigation in all economic and community development projects.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.4
Name of Action or Project:	Planning activities for hazard mitigation for local elected officials and planning organizations
Action or Project Description:	Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$50 - \$250
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:	Superintendent, School Board
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 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, floodplain ordinance, CEDS
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The Region I SEMA area coordinator conducts quarterly meetings in the region and has included hazard mitigation in those meetings. In addition, MRPC has had presentations on hazard mitigation at its meetings that included representatives

	from Crawford County. This program would benefit from a more focused effort to hold meetings centered on hazard mitigation.
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Action 4.3 [3.7]: Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.

Action Worksheet	
Name of Jurisdiction:	Crawford County R-II School District
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with lack of MOUs between jurisdictions and agencies to provide support during disasters.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	4.3 [3.7]
Name of Action or Project:	Adoption of Memorandums of Understanding
Action or Project Description:	Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
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:	Superintendent, School Board
Action/Project Priority:	27 – High Priority
Timeline for Completion:	On-going 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	Revised - Continuing
Report of Progress	No progress.

Steelville R-III School District

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

Action 1.8: Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows

Action Worksheet	
Name of Jurisdiction:	Steelville R-III School District
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/tornados.
Hazard(s) Addressed:	Severe Storms and Tornados
Action or Project	
Action/Project Number:	1.8
Name of Action or Project:	Increasing the number of certified tornado safe rooms and storm shelters in high population areas
Action or Project Description:	Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows
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:	Superintendent, School Board
Action/Project Priority:	24 – High Priority
Timeline for Completion:	1 – 10 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, school budget
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Due to the high cost of construction of certified tornado safe rooms, this action item has not made progress.

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

Action 3.4: Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.

Action Worksheet	
Name of Jurisdiction:	Steelville R-III School District
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of synergy for planning, implementing and budgeting for hazard mitigation projects and for including mitigation in all economic and community development projects.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.4
Name of Action or Project:	Planning activities for hazard mitigation for local elected officials and planning organizations
Action or Project Description:	Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$50 - \$250
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:	Superintendent, School Board
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 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, floodplain ordinance, CEDS
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The Region I SEMA area coordinator conducts quarterly meetings in the region and has included hazard mitigation in those meetings. In addition, MRPC has had presentations on hazard mitigation at its meetings that included representatives

	from Crawford County. This program would benefit from a more focused effort to hold meetings centered on hazard mitigation.
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Action 4.3 [3.7]: Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.

Action Worksheet	
Name of Jurisdiction:	Steelville R-III School District
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with lack of MOUs between jurisdictions and agencies to provide support during disasters.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	4.3 [3.7]
Name of Action or Project:	Adoption of Memorandums of Understanding
Action or Project Description:	Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
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:	Superintendent, School Board
Action/Project Priority:	27 – High Priority
Timeline for Completion:	On-going 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	Revised - Continuing
Report of Progress	No progress.

Sullivan School District

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

Action 1.8: Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows

Action Worksheet	
Name of Jurisdiction:	Sullivan School District
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/tornados.
Hazard(s) Addressed:	Severe Storms and Tornados
Action or Project	
Action/Project Number:	1.8
Name of Action or Project:	Increasing the number of certified tornado safe rooms and storm shelters in high population areas
Action or Project Description:	Construct storm shelters and tornado safe rooms near areas of high population densities (schools and large employers) as funding allows
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:	Superintendent, School Board
Action/Project Priority:	24 – High Priority
Timeline for Completion:	1 – 10 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, school budget
Progress Report	
Action Status	Revised - Continuing
Report of Progress	Due to the high cost of construction of certified tornado safe rooms, this action item has not made progress.

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

Action 3.4: Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.

Action Worksheet	
Name of Jurisdiction:	Sullivan School District
Risk / Vulnerability	
Problem being Mitigated:	Risks/vulnerabilities associated with lack of synergy for planning, implementing and budgeting for hazard mitigation projects and for including mitigation in all economic and community development projects.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	3.4
Name of Action or Project:	Planning activities for hazard mitigation for local elected officials and planning organizations
Action or Project Description:	Schedule an annual meeting with city/county officials and local planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
Estimated Cost:	\$50 - \$250
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:	Superintendent, School Board
Action/Project Priority:	24 – High Priority
Timeline for Completion:	On-going – 1 – 2 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, floodplain ordinance, CEDS
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The Region I SEMA area coordinator conducts quarterly meetings in the region and has included hazard mitigation in those meetings. In addition, MRPC has had presentations on hazard mitigation at its meetings that included representatives

	from Crawford County. This program would benefit from a more focused effort to hold meetings centered on hazard mitigation.
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Action 4.3 [3.7]: Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.

Action Worksheet	
Name of Jurisdiction:	Sullivan School District
Risk / Vulnerability	
Problem being Mitigated:	Risks and vulnerabilities associated with lack of MOUs between jurisdictions and agencies to provide support during disasters.
Hazard(s) Addressed:	All hazards
Action or Project	
Action/Project Number:	4.3 [3.7]
Name of Action or Project:	Adoption of Memorandums of Understanding
Action or Project Description:	Adopt formal Memorandums of Understanding between all jurisdictions in the planning area to provide aid and facilitate collaboration during disasters.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity of government and essential services.
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:	Superintendent, School Board
Action/Project Priority:	27 – High Priority
Timeline for Completion:	On-going 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	Revised - Continuing
Report of Progress	No progress.