4	MIT	IGATION STRATEGY	4.1
	4.1	Goals	4.1
	4.2	Identification and Analysis of Mitigation Actions	4.2
	4.3	Implementation of Mitigation Actions	4.5

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.

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

<u>Priority Scale</u> – 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 <a href="https://msc.fema.gov/portal">https://msc.fema.gov/portal</a>.

 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 Report<sup>1</sup>; NSFHA (SEMA)

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<sup>&</sup>lt;sup>1</sup> www.fema.gov/cis/mo.html

Figure 4.4 Prioritization of Mitigation Actions								NO NO							
Action No.	Mitigation Actions	S	Т	Α	Р	L	E	E	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	Н
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	Н
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	Н
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	Н
1.10	Continued compliance with NFIP requirements.	2	3	2	2	3	2	3	17	IC, PD, LF, EMCC	8	-1	7	24	Н
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	Н
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	Н
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	Н
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	Н
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	Н
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	Н
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	Н
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	Н

# **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.

and distribute brochures on na	tural 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/Drainet Number	Action or Project				
Action/Project Number: Name of Action or	1.1				
Project:	Education/Awareness Program on Natural Hazards and Personal Preparedness				
i roject.	Local emergency responders and EMDs will promote Ready in 3				
Action or Project	and other personal preparedness education programs through				
Description:	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	Reduce the potential impact of natural disasters on the lives and				
Statement:	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.				
Pagnancible	Plan for Implementation  EMD and county health department				
Responsible Organization/Department:	EMD and county fleath 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	Hazard mitigation plan, LEOP				
Mechanisms to be Used					
in Implementation, if any:					
	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.				
	Ligarioalogolia.				

<u>Action 1.3:</u> Obtain and upgrade early warning systems and improved communication systems as funding allows.

A adda w Maruha ba ad						
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	EMD, County Commission					
Organization/Department:	99 Lligh Dringity					
Action/Project Priority: Timeline for Completion:	22 – High Priority On-going – five years					
Potential Fund Sources:	Grants, local general revenue funds, and private donations of					
Fotential I und Sources.	cash, goods, or services.					
Local Planning	LEOP, Hazard Mitigation Plan					
Mechanisms to be Used	, , , , , , , , , , , , , , , , , , ,					
in Implementation, if any:						
•	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					

<u>Action 1.7:</u> 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	Upgrade roads and bridges that would reduce danger to residents				
Description:	during occurrences of natural disasters as funding allows.				
Applicable Goal	Reduce the potential impact of natural disasters on the lives and				
Statement:	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	Crawford County Commission, road and bridge department				
Organization/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	Hazard mitigation plan, capital improvement plan				
Mechanisms to be Used					
in Implementation, if any:					
	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				
	highways in Crawford County include two over Crooked Creek – one on M Highway and one on Highway 19; one on Highway 49 over Dry				
	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				
	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				
	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				

<u>Action 1.8:</u> 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					
1 Tojout.	Construct storm shelters and tornado safe rooms near areas of					
Action or Project	high population densities (schools and large employers) as					
Description:	funding allows					
Applicable Goal	Reduce the potential impact of natural disasters on the lives and					
Statement:	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	EMD, County Commission					
Organization/Department:	LIND, 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	Hazard mitigation plan, LEOP, capital improvement plan					
Mechanisms to be Used						
in Implementation, if any:	Drawnaga Day art					
Action Status	Progress Report					
Action Status Report of Progress	Revised - Continuing					
Report of Progress	Due to the high cost of construction of certified tornado safe rooms, this action item has not made progress.					
	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	Reduce the potential impact of natural disasters on the lives and				
Statement: Estimated Cost:	livelihoods of the citizens of the county.				
Benefits:	\$4,000 - \$8,000  Losses avoided by implementing this action include injuries				
Deficits:	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	Hazard mitigation plan, LEOP, floodplain ordinance				
Mechanisms to be Used					
in Implementation, if any:					
	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.

<u>Action 2.2:</u> 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
	Diels / Welle engleitites
Droblem being Mitigated	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
1142414(0) 7144100041	Action or Project
Action/Project Number:	2.2
•	
Name of Action or	Floodplain education/awareness program.
Project:	
	Distribute FEMA brochures and factsheets about the National
Action or Project	Flood Insurance Program (NFIP) at public offices and community
Description:	events.
A II	
Applicable Goal	Reduce the potential impact of natural disasters on new and
Statement: Estimated Cost:	existing properties and infrastructure and the local economy.
Benefits:	\$500 - \$1,500  Losses avoided by implementing this action include injuries
beliefits.	and/or casualties, property damage, loss of function/displacement
	impacts and emergency management costs/community costs.
	Plan for Implementation
Responsible	County EMD and Floodplain Manager
Organization/Department:	out in the supremental services and the supremental services are supremental services and services are supremental services are supremental services and services are supremental services are supre
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	Hazard mitigation plan, LEOP, floodplain management ordinance
Mechanisms to be Used	
in Implementation, if any:	Dura vivia a Dani ait
Action Status	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.
	noodplain management and development requirements.

<u>Action 2.4:</u> 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 Tornados
	Action or Project
Action/Project Number:	2.4
Name of Action or	Establishing regulations for the securing of hazardous materials
Project:	tanks and mobile homes.
	Revise floodplain ordinances to require securing hazardous
Action or Project	material tanks and mobile homes in floodplain areas to reduce
Description:	hazards during storms and flooding.
Applicable Goal	Reduce the potential impact of natural disasters to property,
Statement:	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	Crawford County Commission, Floodplain Manager
Organization/Department:	
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	Hazard mitigation plan, floodplain ordinance
Mechanisms to be Used	
in Implementation, if any:	
Progress Report	
Action Status	Complete
Report of Progress	The county floodplain ordinance requires that hazardous
	materials tanks and manufactured homes in floodplains be
	secured.

<u>Action 5.5 [2.6]:</u> 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.

<u>Action 3.4:</u> 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:	Crowford County
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
Hazard(a) Addragad	projects. All hazards
Hazard(s) Addressed:	Action or Project
Action/Project Number:	3.4
Addon't roject italiser.	0.1
Name of Action or	Planning activities for hazard mitigation for local elected officials
Project:	and planning organizations
	Schedule an annual meeting with city/county officials and local
Action or Project	planning organizations to discuss planning, implementing, and
Description:	budgeting for hazard mitigation projects as well as including mitigation in all economic and community development projects.
Applicable Goal	Reduce the potential impact of natural disasters on the continuity
Statement:	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	County Commission, EMD
Organization/Department:	24 High Driavity
Action/Project Priority:	24 – High Priority
Timeline for Completion: Potential Fund Sources:	On-going – 1 – 2 years  Grants, local general revenue funds, and private donations of
otential i una oources.	cash, goods, or services.
Local Planning	Hazard mitigation plan, LEOP, floodplain ordinance, CEDS
Mechanisms to be Used	
in Implementation, if any:	
	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.
	1 1000000 Chort to Hold Moothings contered on Hazard Miligation.

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

Action Worksheet	
Name of Jurisdiction:	Crawford County
Nume of Gunsaletion.	Grawiora 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	Awareness program on local mitigation activities.
Project:	Distribute information objects because without on proceedings to the
Action or Project	Distribute information about hazard mitigation projects to the public through press releases and social media.
Action or Project Description:	public trilough press releases and social media.
Description.	
Applicable Goal	Reduce the potential impact of natural disasters on the continuity
Statement:	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	County EMD, County Commission
Organization/Department:	
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	LEOP, hazard mitigation plan, floodplain ordinance
Mechanisms to be Used	
in Implementation, if any:	
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.

<u>Action 4.3 [3.7]:</u> 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
Drahlam haina Mitigatada	Risks and vulnerabilities associated with lack of MOUs between
Problem being Mitigated:	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
	Adopt formal Memorandums of Understanding between all
Action or Project	jurisdictions in the planning area to provide aid and facilitate
Description:	collaboration during disasters.
Applicable Goal	Reduce the potential impact of natural disasters on the continuity
Statement:	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	County EMD, Crawford County Commission
Organization/Department:	07 18 1 5 1 3
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
L I Di	cash, goods, or services.
Local Planning	Hazard mitigation plan, LEOP
Mechanisms to be Used	
in Implementation, if any:	
Action Status	Progress Report
Action Status	Revised - Continuing
Report of Progress	Some MOUs are in place for local volunteer fire departments.

<u>Action 3.8:</u> Purchase generators for all critical infrastructure facilities as funding allows.

Action Worksheet	
Action vvoiksneet	
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.

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

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	Education/Awareness Program on Natural Hazards and Personal
Project:	Preparedness
	Local emergency responders and EMDs will promote Ready in 3
Action or Project	and other personal preparedness education programs through
Description:	the distribution of brochures, press releases and presentations at
	special events and schools and through the county health
Amplicable Coal	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: Benefits:	\$500 -\$3,500 estimated cost  Losses avoided by implementing this action include injuries
bellents.	and/or casualties, property damages, loss-of-
	function/displacement impacts, and emergency management
	costs/community costs.
	Plan for Implementation
Responsible	EMD and county health department
Organization/Department:	Zinz and county from a 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	Hazard mitigation plan, LEOP
Mechanisms to be Used	
in Implementation, if any:	
	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.

<u>Action 1.3:</u> 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.

<u>Action 1.7:</u> 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 On-going
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, or services.
Local Planning	Hazard mitigation plan, capital improvement plan
Mechanisms to be Used	
in Implementation, if any:	
Progress Report	
Action Status	Revised - Continuing
Report of Progress	The city works to upgrade road and bridge projects as funding allows.

<u>Action 1.8:</u> 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	Increasing the number of certified tornado safe rooms and storm
Project:	shelters in high population areas
	Construct storm shelters and tornado safe rooms near areas of
Action or Project	high population densities (schools and large employers) as
Description:	funding allows
Applicable Goal	Reduce the potential impact of natural disasters on the lives and
Statement:	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.
Decreasible	Plan for Implementation
Responsible	EMD, Mayor, Board of Aldermen
Organization/Department:	24 High Drianity
Action/Project Priority:	24 – High Priority 1 – 10 years
Timeline for Completion: Potential Fund Sources:	
Potential Fund Sources:	Grants, local general revenue funds, and private donations of
Local Planning	cash, goods, or services.  Hazard mitigation plan, LEOP, capital improvement plan
Local Planning Mochanisms to be Used	Trazaru miligation pian, LEOF, capital improvement pian
in Implementation, if any:	
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	NFIP compliance	
Project:		
	Continued compliance with NFIP requirements.	
Action or Project		
Description:		
Applicable Goal	Reduce the potential impact of natural disasters on the lives and	
Statement:	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	Floodplain Manager, Mayor, Board of Aldermen	
Organization/Department:		
Action/Project Priority:	24 – High Priority	
Timeline for Completion:	On-going On-going	
Potential Fund Sources:	Grants, local general revenue funds, and private donations of	
	cash, goods, or services.	
Local Planning	Hazard mitigation plan, LEOP, floodplain ordinance	
Mechanisms to be Used		
in Implementation, if any:		
	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.

<u>Action 2.2:</u> 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	Floodplain Manager
Organization/Department:	
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.

<u>Action 2.4:</u> 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
Troblem being imagated.	unsecured mobile homes pose risks during floods, severe storms
	and tornadoes.
Hazard(s) Addressed:	Floods, Severe Storms, Tornados
	Action or Project
Action/Project Number:	2.4
Name of Action or	Establishing regulations for the securing of hazardous materials
Project:	tanks and mobile homes.
	Revise floodplain ordinances to require securing hazardous
Action or Project	material tanks and mobile homes in floodplain areas to reduce
Description:	hazards during storms and flooding.
Applicable Goal	Reduce the potential impact of natural disasters to property,
Statement:	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.
D ib.i .	Plan for Implementation
Responsible	Floodplain Manager, Mayor, Board of Aldermen
Organization/Department:	24 Himb Driggits
Action/Project Priority:	24 –High Priority
Timeline for Completion: Potential Fund Sources:	1 – 5 years
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, or services.
Local Planning	Hazard mitigation plan, floodplain ordinance
Mechanisms to be Used	Plazara magadon plan, nooaplam oramanoo
in Implementation, if any:	
,	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	Mayor, Board of Aldermen, Local Planners, Public Works
Organization/Department:	00 111 1 12 11
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.

<u>Action 5.5 [2.6]:</u> 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.

<u>Action 3.4:</u> 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
Hamard/a) Address add	projects. All hazards
Hazard(s) Addressed:	Action or Project
Action/Ducient Number	3.4
Action/Project Number:	3.4
Name of Action or	Planning activities for hazard mitigation for local elected officials
Project:	and planning organizations
•	Schedule an annual meeting with city/county officials and local
Action or Project	planning organizations to discuss planning, implementing, and
Description:	budgeting for hazard mitigation projects as well as including
	mitigation in all economic and community development projects.
Applicable Goal	Reduce the potential impact of natural disasters on the continuity
Statement:	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.
Decreasible	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
otential Fana Cources.	cash, goods, or services.
Local Planning	Hazard mitigation plan, LEOP, floodplain ordinance, CEDS
Mechanisms to be Used	
in Implementation, if any:	
	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.

<u>Action 3.6:</u> 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	Awaranaga pragram on local mitigation activities	
	Awareness program on local mitigation activities.	
Project:	Distribute information about beyond mitigation projects to the	
Action or Droinet	Distribute information about hazard mitigation projects to the	
Action or Project	public through press releases and social media.	
Description:		
Applicable Goal	Reduce the potential impact of natural disasters on the continuity	
Statement:	of government and essential services.	
Estimated Cost:	\$200-\$1,500	
Benefits:	Losses avoided by implementing this action include injuries	
Bellents.	and/or casualties, property damages, loss-of-	
	function/displacement impacts, and emergency management	
	costs/community costs.	
	Plan for Implementation	
Responsible	EMD, Mayor, Public Works	
Organization/Department:		
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	LEOP, hazard mitigation plan, floodplain ordinance	
Mechanisms to be Used		
in Implementation, if any:		
	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.	

<u>Action 4.3 [3.7]:</u> 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	Hazard Mitigation Plan, LEOP
in Implementation, if any:	
	Progress Report
Action Status	New
Report of Progress	The city does not currently own any generators.

### <u>Cuba</u>

**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.

and distribute procridies on ha	itural 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	Education/Awareness Program on Natural Hazards and Personal
Project:	Preparedness
	Local emergency responders and EMDs will promote Ready in 3
Action or Project	and other personal preparedness education programs through
Description:	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	Reduce the potential impact of natural disasters on the lives and
Statement:	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.
Degranaible	Plan for Implementation
Responsible	EMD and county health department
Organization/Department:	27 High Driggity
Action/Project Priority: Timeline for Completion:	27 – High Priority
Potential Fund Sources:	On-going Grants, local general revenue funds, private donations of cash,
Potential Fund Sources.	goods or services
Local Planning	Hazard mitigation plan, LEOP
Mechanisms to be Used	Hazaru miligation pian, LEOP
in Implementation, if any:	
in implementation, if any.	Progress Report
Action Status	Revised - Continuing
Report of Progress	Activity has occurred in this area as most emergency response
1.toport of 1.togress	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
	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

would help to achieve comprehensive coverage for all the
jurisdictions.

<u>Action 1.3:</u> 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		
Problem being wingated.	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.	
,	Obtain and upgrade early warning systems and improved	
Action or Project	communication systems as funding allows, including tornado	
Description:	sirens and text and phone systems.	
Applicable Goal	Reduce the potential impact of natural disasters on the lives and	
Statement:	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	EMD, Mayor, Board of Aldermen	
Organization/Department:	22 High Driority	
Action/Project Priority:	22 – High Priority	
Timeline for Completion: Potential Fund Sources:	On-going – five years Grants, local general revenue funds, and private donations of	
Fotential Fund Sources:	cash, goods, or services.	
Local Planning	LEOP, Hazard Mitigation Plan	
Mechanisms to be Used	LEGI , Hazara Mitigation Han	
in Implementation, if any:		
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.	

<u>Action 1.7:</u> 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 On-going	
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash, goods, or services.	
Local Planning	Hazard mitigation plan, capital improvement plan	
Mechanisms to be Used		
in Implementation, if any:		
Progress Report		
Action Status	Revised - Continuing	
Report of Progress	The city works to upgrade road and bridge projects as funding allows.	

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

Antion Workshoot	
Action Worksheet	
Name of Jurisdiction:	Cuba
	Diele / Welle angle life
Droblem being Mitigated	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
1142414(0)7144155541	Action or Project
Action/Project Number:	1.8
-	
Name of Action or	Increasing the number of certified tornado safe rooms and storm
Project:	shelters in high population areas
	Construct storm shelters and tornado safe rooms near areas of
Action or Project	high population densities (schools and large employers) as
Description:	funding allows
Amplicable Cast	Dadus the veteration issue at after twelville actions on the lives and
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
Denents.	and/or casualties, and emergency management costs/community
	costs.
	Plan for Implementation
Responsible	EMD, Mayor, Board of Aldermen
Organization/Department:	
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	Hazard mitigation plan, LEOP, capital improvement plan
Mechanisms to be Used	
in Implementation, if any:	
Action Status	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.
	I LIVIA CEITIIICU TOTTIAUO STICITETS III DOULDOIT.

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	NFIP compliance
Project:	
	Continued compliance with NFIP requirements.
Action or Project	
Description:	
Applicable Goal	Reduce the potential impact of natural disasters on the lives and
Statement:	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.
D	Plan for Implementation
Responsible	Floodplain Manager, Mayor, Board of Aldermen
Organization/Department:	24 High Drievity
Action/Project Priority:	24 – High Priority
Timeline for Completion: Potential Fund Sources:	On-going Grants, local general revenue funds, and private donations of
Potential Fund Sources:	cash, goods, or services.
Local Planning	Hazard mitigation plan, LEOP, floodplain ordinance
Mechanisms to be Used	Tiazaid miligalion pian, LLOF, ilooupiam ordinance
in Implementation, if any:	
in implementation, it ally.	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.
	g.

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

<u>Action 2.2:</u> 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	Floodplain Manager
Organization/Department:	
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.

<u>Action 2.4:</u> 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, Tornados
` '	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	Reduce the potential impact of natural disasters to property,
Statement:	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	Floodplain Manager, Mayor, Board of Aldermen
Organization/Department:	,
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	Hazard mitigation plan, floodplain ordinance
Mechanisms to be Used	
in Implementation, if any:	
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	Mayor, Board of Aldermen, Local Planners, Public Works
Organization/Department:	Mayor, Board of Aldormon, 200al Flammore, Flabilio Worke
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.

<u>Action 5.5 [2.6]:</u> 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.

<u>Action 3.4:</u> 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
Hamard/a) Address add	projects.
Hazard(s) Addressed:	All hazards
Action/Ducient Number	Action or Project  3.4
Action/Project Number:	3.4
Name of Action or	Planning activities for hazard mitigation for local elected officials
Project:	and planning organizations
•	Schedule an annual meeting with city/county officials and local
Action or Project	planning organizations to discuss planning, implementing, and
Description:	budgeting for hazard mitigation projects as well as including
	mitigation in all economic and community development projects.
Applicable Goal	Reduce the potential impact of natural disasters on the continuity
Statement:	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	Mayor, EMD
Organization/Department:	
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
Local Blonning	cash, goods, or services.  Hazard mitigation plan, LEOP, floodplain ordinance, CEDS
Local Planning Mechanisms to be Used	Hazard miligation plan, LEOP, iloodplain ordinance, CEDS
in Implementation, if any:	
in implementation, it any.	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.

<u>Action 3.6:</u> 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	Awareness program on local mitigation activities.
Project:	
	Distribute information about hazard mitigation projects to the
Action or Project	public through press releases and social media.
Description:	
Applicable Goal	Reduce the potential impact of natural disasters on the continuity
Statement:	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	EMD, Mayor, Public Works
Organization/Department:	
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	LEOP, hazard mitigation plan, floodplain ordinance
Mechanisms to be Used	
in Implementation, if any:	Draguese Dan out
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.

<u>Action 4.3 [3.7]:</u> 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
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/Ducient Number	Action or Project
Action/Project Number:	4.3 [3.7]
Name of Action or	Adoption of Memorandums of Understanding
Project:	
	Adopt formal Memorandums of Understanding between all
Action or Project	jurisdictions in the planning area to provide aid and facilitate
Description:	collaboration during disasters.
Assettanta Osal	Deduce the control in the free tree like a tree to the continuity
Applicable Goal	Reduce the potential impact of natural disasters on the continuity
Statement: Estimated Cost:	of government and essential services.
Benefits:	\$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	EMD, Mayor, Board of Aldermen
Organization/Department:	
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	Hazard mitigation plan, LEOP
Mechanisms to be Used	
in Implementation, if any:	
A (; 0) (	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.
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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	EMD, Mayor, Board of Aldermen, Public Works	
Organization/Department:	24 High Driggits	
Action/Project Priority:	24 – High Priority	
Timeline for Completion: Potential Fund Sources:	5 years Grants, local general revenue funds, and private donations of	
Potential Fund Sources.	cash, goods, or services.	
Local Planning	Hazard Mitigation Plan, LEOP	
Mechanisms to be Used	Tidzara Miagadoff Fidif, EEOf	
in Implementation, if any:		
	Progress Report	
Action Status	New	
Report of Progress	The city has three fixed generators.	

## <u>Leasburg</u>

**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.

and distribute brochures on na	tural 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
A sties / Dusie et Neueskeur	Action or Project
Action/Project Number: Name of Action or	
Project:	Education/Awareness Program on Natural Hazards and Personal Preparedness
•	Local emergency responders and EMDs will promote Ready in 3
Action or Project	and other personal preparedness education programs through
Description:	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	Reduce the potential impact of natural disasters on the lives and
Statement:	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	EMD and county health department
Organization/Department:	LIND 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	Hazard mitigation plan, LEOP
Mechanisms to be Used	
in Implementation, if any:	
	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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<u>Action 1.3:</u> Obtain and upgrade early warning systems and improved communication systems as funding allows.

Action Worksheet	
Name of Jurisdiction:	Laceburg
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	Obtain and upgrade early warning systems and improved
Project:	communication systems.
	Obtain and upgrade early warning systems and improved
Action or Project	communication systems as funding allows, including tornado
Description:	sirens and text and phone systems.
Applicable Goal	Reduce the potential impact of natural disasters on the lives and
Statement:	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	EMD, Chairman, Board of Trustees
Organization/Department:	
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	LEOP, Hazard Mitigation Plan
Mechanisms to be Used	
in Implementation, if any:	
	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.

<u>Action 1.7:</u> 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.

<u>Action 1.8:</u> 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	
Hamand/a) Andreas and	event of high winds/tornados.	
Hazard(s) Addressed:	Severe Storms and Tornados	
A sties /Dusie st Nessele sus	Action or Project	
Action/Project Number:	1.8	
Name of Action or	Increasing the number of certified terpode sefe reams and sterm	
Project:	Increasing the number of certified tornado safe rooms and storm shelters in high population areas	
i i Ojeot.	Construct storm shelters and tornado safe rooms near areas of	
Action or Project	high population densities (schools and large employers) as	
Description:	funding allows	
2000ptio	Turitaining allietive	
Applicable Goal	Reduce the potential impact of natural disasters on the lives and	
Statement:	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	EMD, Chair, Board of Trustees	
Organization/Department:	O4 High Dringits	
Action/Project Priority:	24 – High Priority	
Timeline for Completion: Potential Fund Sources:	1 – 10 years  Grants, local general revenue funds, and private donations of	
Potential Fund Sources.	cash, goods, or services.	
Local Planning	Hazard mitigation plan, LEOP, capital improvement plan	
Mechanisms to be Used	Trazard mitigation plan, LEOF, capital improvement plan	
in Implementation, if any:		
,,,,	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.

<u>Action 2.2:</u> 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.

<u>Action 2.4:</u> 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, Tornados
	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.

<u>Action 5.5 [2.6]:</u> 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	Chair, Board of Trustees, Floodplain Manager	
Organization/Department:		
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.

<u>Action 3.4:</u> 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
Doobless heime Midineted	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
Tiuzui u(o) Audi ooodu.	Action or Project
Action/Project Number:	3.4
Name of Action or	Planning activities for hazard mitigation for local elected officials
Project:	and planning organizations
	Schedule an annual meeting with city/county officials and local
Action or Project	planning organizations to discuss planning, implementing, and
Description:	budgeting for hazard mitigation projects as well as including
	mitigation in all economic and community development projects.
Applicable Goal	Reduce the potential impact of natural disasters on the continuity
Statement:	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	Chair, EMD
Organization/Department:	J. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.
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	Hazard mitigation plan, LEOP, floodplain ordinance, CEDS
Mechanisms to be Used	
in Implementation, if any:	
	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.

<u>Action 3.6:</u> 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	Awareness program on local mitigation activities	
	Awareness program on local mitigation activities.	
Project:	Distribute information about hazard mitigation projects to the	
Action or Project	public through press releases and social media.	
Description:	public tillough press releases and social media.	
Description.		
Applicable Goal	Reduce the potential impact of natural disasters on the continuity	
Statement:	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	EMD, Chair	
Organization/Department:		
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	LEOP, hazard mitigation plan, floodplain ordinance	
Mechanisms to be Used		
in Implementation, if any:		
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.	

<u>Action 4.3 [3.7]:</u> 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	
	Adopt formal Memorandums of Understanding between all	
Action or Project	jurisdictions in the planning area to provide aid and facilitate	
Description:	collaboration during disasters.	
Applicable Goal	Reduce the potential impact of natural disasters on the continuity	
Statement:	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	EMD, Chair, Board of Trustees	
Organization/Department:	LIND, 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	Hazard mitigation plan, LEOP	
Mechanisms to be Used	J 7	
in Implementation, if any:		
	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	Hazard Mitigation Plan, LEOP
in Implementation, if any:	
	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.

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

and distribute procridies on na	atural 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	Education/Awareness Program on Natural Hazards and Personal
Project:	Preparedness
Action or Droinet	Local emergency responders and EMDs will promote Ready in 3
Action or Project Description:	and other personal preparedness education programs through the distribution of brochures, press releases and presentations at
Description.	special events and schools and through the county health
	department and local government offices.
Applicable Goal	Reduce the potential impact of natural disasters on the lives and
Statement:	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	EMD and health department
Organization/Department:	
Action/Project Priority:	27 – High Priority
Timeline for Completion:	On-going for the state of the s
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash,
Lead Disersing	goods or services
Local Planning	Hazard mitigation plan, LEOP
Mechanisms to be Used in Implementation, if any:	
in implementation, it ally.	Progress Report
Action Status	Revised - Continuing
Report of Progress	Activity has occurred in this area as most emergency response
39.000	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 posta information on their website,

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

Action Worksheet	
Name of Jurisdiction:	Steelville
Name of Juristiction.	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.
_	Obtain and upgrade early warning systems and improved
Action or Project	communication systems as funding allows, including tornado
Description:	sirens and text and phone systems.
Applicable Goal	Reduce the potential impact of natural disasters on the lives and
Statement:	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	EMD, Mayor, Board of Aldermen
Organization/Department:	
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	LEOP, Hazard Mitigation Plan
Mechanisms to be Used	
in Implementation, if any:	
A #: 0/ /	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.

<u>Action 1.7:</u> 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
Hazard/a) Addressed	earthquakes events.
Hazard(s) Addressed:	Floods and Earthquake
	Action or Project
Action/Project Number:	1.7
Name of Action or	Upgrade road and bridge upgrades for potential mitigation actions
Project:	
Action or Project	Upgrade roads and bridges that would reduce danger to residents
Description:	during occurrences of natural disasters as funding allows.
Applicable Coal	Deduce the vertextial invest of waterval discreters on the lives and
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the lives and
Estimated Cost:	livelihoods of the citizens of the county.  Unknown
Benefits:	Losses avoided by implementing this action include injuries
Denents.	and/or casualties, property damages, loss-of-
	function/displacement impacts, and emergency management
	costs/community costs.
	Plan for Implementation
Responsible	Mayor, Board of Aldermen, Public Works Department
Organization/Department:	
Action/Project Priority:	28 – High Priority
Timeline for Completion:	On-going On-going
Potential Fund Sources:	Grants, local general revenue funds, private donations of cash,
	goods, or services.
Local Planning	Hazard mitigation plan, capital improvement plan
Mechanisms to be Used	
in Implementation, if any:	Duantage Danget
Action Status	Progress Report
Action Status	Revised - Continuing  The city works to ungrade road and bridge projects as funding
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.
	<b>/</b>

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

Action Worksheet	
N 61 1 11 11	
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	Increasing the number of certified tornado safe rooms and storm
Project:	shelters in high population areas
Action or Project	Construct storm shelters and tornado safe rooms near areas of
Action or Project Description:	high population densities (schools and large employers) as funding allows
Description.	Turiding allows
Applicable Goal	Reduce the potential impact of natural disasters on the lives and
Statement:	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.
D	Plan for Implementation
Responsible	EMD, Mayor, Board of Aldermen
Organization/Department:	24 High Driggity
Action/Project Priority: Timeline for Completion:	24 – High Priority 1 – 10 years
Potential Fund Sources:	Grants, local general revenue funds, and private donations of
roteitiai i una sources.	cash, goods, or services.
Local Planning	Hazard mitigation plan, LEOP, capital improvement plan
Mechanisms to be Used	Tiazara magadon pian, Ezor , oapital improvomont pian
in Implementation, if any:	
	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 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.

<u>Action 2.2:</u> 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
Hamand/a) Addusas adv	the NFIP.
Hazard(s) Addressed:	Flooding
Action/Project Number:	Action or Project
Action/Project Number.	2.2
Name of Action or	Floodplain education/awareness program.
Project:	programme
•	Distribute FEMA brochures and factsheets about the National
Action or Project	Flood Insurance Program (NFIP) at public offices and community
Description:	events.
-	
Applicable Goal	Reduce the potential impact of natural disasters on new and
Statement:	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	Floodplain Manager
Organization/Department:	
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,
L I Di i	goods, or services.
Local Planning	Hazard mitigation plan, LEOP, floodplain management ordinance
Mechanisms to be Used	
in Implementation, if any:	Dragrage Panort
Action Status	Progress Report  Revised – Continuing
	Ü
Report of Progress	No progress.

<u>Action 2.4:</u> 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, Tornados
	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

<u>Action 2.5:</u> 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	Mayor, Board of Aldermen, Local Planners, Public Works
Organization/Department:	
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.

<u>Action 3.4:</u> 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	
N. CA.		
Name of Action or	Planning activities for hazard mitigation for local elected officials	
Project:	and planning organizations	
A stiem on Duele st	Schedule an annual meeting with city/county officials and local	
Action or Project	planning organizations to discuss planning, implementing, and	
Description:	budgeting for hazard mitigation projects as well as including	
Applicable Coal	mitigation in all economic and community development projects.  Reduce the potential impact of natural disasters on the continuity	
Applicable Goal Statement:	of government and essential services.	
Estimated Cost:	\$50 - \$250	
Benefits:	Losses avoided by implementing this action include injuries	
Deficits.	and/or casualties, property damages, loss-of-	
	function/displacement impacts, and emergency management	
	costs/community costs.	
	Plan for Implementation	
Responsible	Mayor, EMD	
Organization/Department:	,	
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	Hazard mitigation plan, LEOP, floodplain ordinance, CEDS	
Mechanisms to be Used		
in Implementation, if any:		
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.

<u>Action 3.6:</u> 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.	
	Distribute information about hazard mitigation projects to the	
Action or Project	public through press releases and social media.	
Description:		
Applicable Goal	Reduce the potential impact of natural disasters on the continuity	
Statement:	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	County EMD, County Commission	
Organization/Department:	OO Hinda Dainaita	
Action/Project Priority: Timeline for Completion:	28 –High Priority	
Potential Fund Sources:	On-going – 1 – 5 years  Local general revenue funds, and private donations of cash,	
Potential Fund Sources.	goods, or services.	
Local Planning	LEOP, hazard mitigation plan, floodplain ordinance	
Mechanisms to be Used	LEOT , Hazara minganon plan, hoodplain ordinance	
in Implementation, if any:		
and the second s	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.	

<u>Action 4.3 [3.7]:</u> 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	
A () O( )	Progress Report	
Action Status Report of Progress	Revised - Continuing  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	Hazard Mitigation Plan, LEOP		
Mechanisms to be Used			
in Implementation, if any:			
Progress Report			
Action Status	New		
Report of Progress	The city does not currently own any generators.		

# <u>Sullivan</u>

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

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

	ntural 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	Education/Awareness Program on Natural Hazards and Personal
Project:	Preparedness
A stiem on Duele st	Local emergency responders and EMDs will promote Ready in 3
Action or Project	and other personal preparedness education programs through
Description:	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	Reduce the potential impact of natural disasters on the lives and
Applicable Goal Statement:	livelihoods of the citizens of the county.
Estimated Cost:	\$500 -\$3,500 estimated cost
Benefits:	Losses avoided by implementing this action include injuries
bellents.	and/or casualties, property damages, loss-of-
	function/displacement impacts, and emergency management
	costs/community costs.
	Plan for Implementation
Responsible	EMD and health department
Organization/Department:	Zinz and nearth 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	Hazard mitigation plan, LEOP
Mechanisms to be Used	
in Implementation, if any:	
	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 posta information on their website,

would help to achieve comprehensive coverage for all the jurisdictions.		and FaceBook pages. A more focused and coordinated effort would help to achieve comprehensive coverage for all the jurisdictions
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<u>Action 1.3:</u> 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	Reduce the potential impact of natural disasters on the lives and
Statement:	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	EMD, Mayor, City Council
Organization/Department:	
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	LEOP, Hazard Mitigation Plan
Mechanisms to be Used	
in Implementation, if any:	
	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.

<u>Action 1.7:</u> 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.

<u>Action 1.8:</u> 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
Tiazaiu(s) Addressed.	Action or Project
Action/Project Number:	1.8
Action/1 Toject Number:	1.0
Name of Action or	Increasing the number of certified tornado safe rooms and storm
Project:	shelters in high population areas
	Construct storm shelters and tornado safe rooms near areas of
Action or Project	high population densities (schools and large employers) as
Description:	funding allows
Applicable Goal	Reduce the potential impact of natural disasters on the lives and
Statement: Estimated Cost:	livelihoods of the citizens of the county. Unknown
Benefits:	Losses avoided by implementing this action include injuries
belletits.	and/or casualties, and emergency management costs/community
	costs.
	Plan for Implementation
Responsible	EMD, Mayor, City Council
Organization/Department:	, , , , , , ,
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	Hazard mitigation plan, LEOP, capital improvement plan
Mechanisms to be Used	
in Implementation, if any:	Duraniana Danari
Action Status	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.
	1 EM/ ( Softmed torridge Shorters III Galliyari.

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.

<u>Action 2.2:</u> 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	
No. of A. C.		
Name of Action or	Floodplain education/awareness program.	
Project:	Distribute FEMA has been and fortal and all and the Nicking I	
A salion on Duolosa	Distribute FEMA brochures and factsheets about the National	
Action or Project	Flood Insurance Program (NFIP) at public offices and community	
Description:	events.	
Applicable Goal	Reduce the potential impact of natural disasters on new and	
Statement:	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	Floodplain Manager	
Organization/Department:		
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	Hazard mitigation plan, LEOP, floodplain management ordinance	
Mechanisms to be Used		
in Implementation, if any:		
	Progress Report	
Action Status	Revised – Continuing	
Report of Progress	No progress.	

<u>Action 2.4:</u> 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, Tornados
	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

<u>Action 2.5:</u> 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	Hazard mitigation plan, floodplain ordinance
Mechanisms to be Used in Implementation, if any:	
in in promotion, it diff	Progress Report
Action Status	Revised - Continuing
Report of Progress	Sullivan has a stormwater ordinance in place.

<u>Action 5.5 [2.6]:</u> 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	Mayor, City Council, Floodplain Manager
Organization/Department:	
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.

<u>Action 3.4:</u> 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	Hazard mitigation plan, LEOP, floodplain ordinance, CEDS
in Implementation, if any:	
A ation Otatus	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.

<u>Action 3.6:</u> 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
(5)	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.

<u>Action 4.3 [3.7]:</u> 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	EMD, Mayor, City Council
Organization/Department:	
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
Lead Diamina	cash, goods, or services.
Local Planning Mechanisms to be Used	Hazard mitigation plan, LEOP
in Implementation, if any:	
in implementation, it ally.	Progress Report
Action Status	Revised - Continuing
Report of Progress	Some MOUs are in place for local volunteer fire departments.
p	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
(0)	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	Hazard Mitigation Plan, LEOP
Mechanisms to be Used	
in Implementation, if any:	
	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**

<u>Action 1.8:</u> 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:	Crowford County P. I. Sobool District
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
(0)	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	Hazard mitigation plan, school budget
Mechanisms to be Used	
in Implementation, if any:	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.

<u>Action 3.4:</u> 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:	Crowford County P. I. School District
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
Hazard(s) Addressed:	projects. All hazards
Hazaru(s) Audresseu.	Action or Project
Action/Project Number:	3.4
Action/1 roject italiber.	0.1
Name of Action or	Planning activities for hazard mitigation for local elected officials
Project:	and planning organizations
	Schedule an annual meeting with city/county officials and local
Action or Project	planning organizations to discuss planning, implementing, and
Description:	budgeting for hazard mitigation projects as well as including
A - 11 - 0 - 1	mitigation in all economic and community development projects.
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity
Estimated Cost:	of government and essential services. \$50 - \$250
Benefits:	Losses avoided by implementing this action include injuries
Deficitio.	and/or casualties, property damages, loss-of-
	function/displacement impacts, and emergency management
	costs/community costs.
	Plan for Implementation
Responsible	Superintendent, School Board
Organization/Department:	
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
Land Diameira	cash, goods, or services.
Local Planning	Hazard mitigation plan, LEOP, floodplain ordinance, CEDS
Mechanisms to be Used in Implementation, if any:	
in implementation, it ally.	Progress Report
Action Status	Revised - Continuing
Report of Progress	The Region I SEMA area coordinator conducts quarterly
1, 2, 2, 2, 2, 3, 3, 3, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2, 2,	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.

<u>Action 4.3 [3.7]:</u> 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**

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

Action Worksheet	
N. C. I. II. (I	
Name of Jurisdiction:	Crawford County R-II School District
	Risk / Vulnerability
Problem being Mitigated:	Risks/vulnerabilities associated with schools and large employer
Froblem being willigated.	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	Increasing the number of certified tornado safe rooms and storm
Project:	shelters in high population areas
	Construct storm shelters and tornado safe rooms near areas of
Action or Project	high population densities (schools and large employers) as
Description:	funding allows
Applicable Goal	Reduce the potential impact of natural disasters on the lives and
Statement:	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	Superintendent, School Board
Organization/Department:	Supermismasmi, Comoci Boura
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	Hazard mitigation plan, school budget
Mechanisms to be Used	
in Implementation, if any:	Dragrana Banari
Action Status	Progress Report
Action Status Report of Progress	Revised - Continuing  Due to the high cost of construction of certified tornado safe
Report of Flogress	rooms, this action item has not made progress.
	rooms, this dotton from has not made progress.

<u>Action 3.4:</u> 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
	Stameta County IV III Contact Electrics
	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
Hazard(a) Addragad	projects. All hazards
Hazard(s) Addressed:	Action or Project
Action/Project Number	3.4
Action/Project Number:	3.4
Name of Action or	Planning activities for hazard mitigation for local elected officials
Project:	and planning organizations
	Schedule an annual meeting with city/county officials and local
Action or Project	planning organizations to discuss planning, implementing, and
Description:	budgeting for hazard mitigation projects as well as including
	mitigation in all economic and community development projects.
Applicable Goal	Reduce the potential impact of natural disasters on the continuity
Statement:	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.
Deeneneible	Plan for Implementation
Responsible	Superintendent, School Board
Organization/Department:	Of High Dringits
Action/Project Priority:	24 – High Priority
Timeline for Completion: Potential Fund Sources:	On-going – 1 – 2 years  Grants, local general revenue funds, and private donations of
Potential Fund Sources:	cash, goods, or services.
Local Planning	Hazard mitigation plan, LEOP, floodplain ordinance, CEDS
Mechanisms to be Used	Flazard miligation plan, LEOF, hoodplant ordinance, CEDS
in Implementation, if any:	
	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.

<u>Action 4.3 [3.7]:</u> 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:	Crowford County D. H. Cohool District
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
-	Adopt formal Memorandums of Understanding between all
Action or Project	jurisdictions in the planning area to provide aid and facilitate
Description:	collaboration during disasters.
Applicable Goal	Reduce the potential impact of natural disasters on the continuity
Statement:	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	Superintendent, School Board
Organization/Department:	
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
L I Di	cash, goods, or services.
Local Planning	Hazard mitigation plan, LEOP
Mechanisms to be Used	
in Implementation, if any:	Dragrage Papart
Action Status	Progress Report
	Revised - Continuing
Report of Progress	No progress.

# **Steelville R-III School District**

<u>Action 1.8:</u> 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/Drainet Number	Action or Project
Action/Project Number:	1.8
Name of Action or	Increasing the number of certified tornado safe rooms and storm
Project:	shelters in high population areas
	Construct storm shelters and tornado safe rooms near areas of
Action or Project	high population densities (schools and large employers) as
Description:	funding allows
Applicable Goal	Reduce the potential impact of natural disasters on the lives and
Statement:	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	Superintendent, School Board
Organization/Department:	
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	Hazard mitigation plan, school budget
Mechanisms to be Used	
in Implementation, if any:	Drawness Day ant
Action Status	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.

<u>Action 3.4:</u> 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	Planning activities for hazard mitigation for local elected officials		
Project:	and planning organizations		
	Schedule an annual meeting with city/county officials and local		
Action or Project	planning organizations to discuss planning, implementing, and		
Description:	budgeting for hazard mitigation projects as well as including		
A Line a la la Const	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: Benefits:	\$50 - \$250 Losses avoided by implementing this action include injuries		
Bellents.	and/or casualties, property damages, loss-of-		
	function/displacement impacts, and emergency management		
	costs/community costs.		
	Plan for Implementation		
Responsible	Superintendent, School Board		
Organization/Department:			
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	Hazard mitigation plan, LEOP, floodplain ordinance, CEDS		
Mechanisms to be Used			
in Implementation, if any:			
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.

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

Action Worksheet			
Nove of Invitations	Ota della D. III Oak and District		
Name of Jurisdiction:	Steelville R-III School District		
	Risk / Vulnerability		
Problem being Mitigated:	Risks and vulnerabilities associated with lack of MOUs between		
3 3	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		
	Adopt formal Memorandums of Understanding between all		
Action or Project	jurisdictions in the planning area to provide aid and facilitate		
Description:	collaboration during disasters.		
A - P - I - O - I			
Applicable Goal Statement:	Reduce the potential impact of natural disasters on the continuity		
Estimated Cost:	of government and essential services. \$250 - \$500		
Benefits:	Losses avoided by implementing this action include injuries		
Deficits.	and/or casualties, property damages, loss-of-		
	function/displacement impacts, and emergency management		
	costs/community costs.		
	Plan for Implementation		
Responsible	Superintendent, School Board		
Organization/Department:			
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	Hazard mitigation plan, LEOP		
Mechanisms to be Used			
in Implementation, if any:			
Action Status	Progress Report Revised - Continuing		
Report of Progress	No progress.		
Nepolt of Plogless	ivo piogress.		

# **Sullivan School District**

<u>Action 1.8:</u> 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	
Hanaud(a) Addus as adv	event of high winds/tornados.  Severe Storms and Tornados	
Hazard(s) Addressed:		
Action/Project Number	Action or Project 1.8	
Action/Project Number:	1.8	
Name of Action or	Increasing the number of certified tornado safe rooms and storm	
Project:	shelters in high population areas	
	Construct storm shelters and tornado safe rooms near areas of	
Action or Project	high population densities (schools and large employers) as	
Description:	funding allows	
Applicable Goal	Reduce the potential impact of natural disasters on the lives and	
Statement:	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	Superintendent, School Board	
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	Hazard mitigation plan, school budget	
Mechanisms to be Used		
in Implementation, if any:		
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.	

<u>Action 3.4:</u> 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	Planning activities for hazard mitigation for local elected officials
Project:	and planning organizations
Action or Project	Schedule an annual meeting with city/county officials and local
Action or Project	planning organizations to discuss planning, implementing, and budgeting for hazard mitigation projects as well as including
Description:	mitigation in all economic and community development projects.
Applicable Goal	Reduce the potential impact of natural disasters on the continuity
Statement:	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	Superintendent, School Board
Organization/Department:	Of High Delaste.
Action/Project Priority:	24 – High Priority
Timeline for Completion: Potential Fund Sources:	On-going – 1 – 2 years  Grants, local general revenue funds, and private donations of
Fotential Fund Sources.	cash, goods, or services.
Local Planning	Hazard mitigation plan, LEOP, floodplain ordinance, CEDS
Mechanisms to be Used	Trazara magadon pian, 2201, nooapiam oramanoo, 0220
in Implementation, if any:	
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.

<u>Action 4.3 [3.7]:</u> 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.