Crawford County Hazard Mitigation Planning Committee

The individuals who participated in the Crawford County hazard mitigation planning committee are as follows:

Jurisdictional Representatives

Name	Title	Department	Jurisdiction/Agency/Organization
Leo Sanders	Presiding Commissioner	Administration	Crawford County
Rob Cummings	Associate Commissioner	Administration	Crawford County
Jared Boast	Associate Commissioner	Administration	Crawford County
Danny Brown	District 1 Foreman	Road and Bridge	Crawford County
Darin Layman	Sheriff	Sheriff's Department	Crawford County
Tracy Stover	Administrator	Health Department	Crawford County
Steve Kimker	Chief	Fire	Bourbon Fire District
Craig Bouse	Director	Public Works	City of Cuba
Rodney Neff	Director	Emergency Management	City of Cuba
Mike Plank	Chief	Fire	City of Cuba
Tamra Cape	Alderperson	Administration	City of Steelville
Jason Evans	Director	Public Works	City of Steelville
Curtis Crouch	Alderperson	Administration	City of Steelville
J.T. Hardy	Administrator	Administration	City of Sullivan
Kyle Gibbs	Superintendent	Administration	Crawford County R-I School District

^{*}Sign in sheets from planning meetings are included in Appendix B.

The individuals who represented stakeholders on the Crawford County hazard mitigation planning committee are as follows:

Participating Stakeholder Representatives

Name	Title	Agency/Organization
N/a	N/a	N/a

i

TABLE OF CONTENTS

Executive Summary	V
Contributors	i
Table of Contents	ii
Prerequisites	vi
1 Introduction and Planning Process	
1.1 Purpose	
1.2 Background and Scope	
1.3 Plan Organization	1.2
1.4 Planning Process	1.3
1.4.1 Multi-Jurisdictional Participation	
1.4.2 The Planning Steps	
2 Planning Area Profile and Capabilities	
2.1 Crawford County Planning Area Profile	2.2
2.1.2 Geography, Geology, and Topography	2.3
2.1.3 Climate	2.8
2.1.4 Population/Demographics	2.9
2.1.5 History	2.13
2.1.6 Occupations	2.14
2.1.7 Agriculture	2.14
2.1.8 FEMA Hazard Mitigation Assistance Grants in Planning Area	2.15
2.1.9 FEMA Public Assistance (PA) Grants in Planning Area	2.15
2.2 Jurisdictional Profiles and Mitigation Capabilities	2.19
Unincorporated Crawford County	2.19
City of Bourbon	2.22
City of Cuba	2.25
Village of Leasburg	2.28

City of Steelville	2.31
City of Sullivan	2.34
Public School District Profiles and Mitigation Capabilities	2.43
3 Risk Assessment	3.1
3.1 Hazard Identification	3.4
3.1.1 Review of Existing Mitigation Plans	3.4
3.1.2 Review Disaster Declaration History	3.7
3.1.3 Research Additional Sources	3.9
3.1.4 Hazards Identified	3.11
3.1.5 Multi-Jurisdictional Risk Assessment	3.12
3.2 Assets at Risk	3.12
3.2.1 Total Exposure of Population and Structures	3.12
3.2.2 Critical and Essential Facilities and Infrastructure	3.14
3.2.3 Other Assets	3.20
3.3 Future Land Use and Development	3.24
3.4 Hazard Profiles, Vulnerability, and Problem Statements	3.26
3.4.1 Dam Failure	3.30
3.4.2 Drought	3.54
3.4.3 Earthquakes	3.68
3.4.4 Extreme Temperatures	3.83
3.4.5 Flooding (Flash and River)	3.100
3.4.6 Land Subsidence/Sinkholes	3.125
3.4.7 Severe Thunderstorms Including High Winds, Hail, and Lightning .	3.136
3.4.8 Severe Winter Weather	3.155
3.4.9 Tornado	3.170
3.4.10 Wildfires	3.183
4 Mitigation 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
5 Plan Maintenance Process	5.1
5.1 Monitoring, Evaluating, and Updating the Plan	5.1
5.1.1 Responsibility for Plan Maintenance	5.1
5.1.2 Plan Maintenance Schedule	5.2
5.1.3 Plan Maintenance Process	5.2
5.2 Incorporation into Existing Planning Mechanisms	5.3
5.3 Continued Public Involvement	5.8
6 Appendix	
A: References	6.2
B: Planning Process	6.6
C: Public Survey	6.35
D: Adoption Resolutions	6.50
E: Critical/Essential Facilities	
F: MDC Wildfire Data Search	6.65

The purpose of hazard mitigation is to reduce or eliminate long-term risk to people and property from hazards. Crawford County and participating cities and school districts developed this multijurisdictional local hazard mitigation plan update to reduce future losses to the county and its communities and schools resulting from hazard events. The plan is an update of a plan that was approved on June 7, 2018. The original plan was approved in 2005. The plan was prepared pursuant to the requirements of the Disaster Mitigation Act of 2000 and to achieve eligibility for the Federal Emergency Management Agency (FEMA) Hazard Mitigation Assistance Grant Programs.

The county Multi-Hazard Mitigation Plan is a multi-jurisdictional plan that covers the following 10 jurisdictions that participated in the planning process:

- Crawford County
- City of Bourbon
- City of Cuba
- Village of Leasburg
- City of Steelville
- City of Sullivan
- Crawford Co. R-I School District
- Crawford Co. R-II School District
- Steelville R-III School District
- Sullivan School District

Crawford County and the jurisdictions listed above have developed a multi-jurisdictional Hazard Mitigation Plan that was originally approved by FEMA in 2005 with an update approved by FEMA on March 22, 2013 and five years later on June 7, 2018. This current planning effort serves as an update (hereafter referred to as the 2022 Hazard Mitigation Plan.)

The plan update process followed a methodology prescribed by FEMA, which began with the formation of a Mitigation Planning Committee (MPC) comprised of representative from Crawford County and participating jurisdictions. The MPC updated the risk assessment that identified and profiled hazards that pose a risk to Crawford County and analyzed the vulnerability to these hazards. The MPC also examined the capabilities in place to mitigate them. The MPC determined that the planning area is vulnerable to several hazards that are identified, profiled and analyzed in this plan. Riverine and flash flooding, winter storms, severe thunderstorms/hail/lightening/high winds and tornadoes are among the hazards that historically have had a significant impact.

Based upon the risk assessment, the MCP revised goals for reducing risk from hazards. The goals are listed below:

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 disasters on the continuity of government and essential services.

To meet the identified goals, the MPC developed recommended mitigation actions, which are detailed in Chapter 4 of this plan. The MPC developed an implementation plan for each action, which identifies priority level, responsible agency, timeline, cost estimate, potential funding sources and progress to date.

PREREQUISITES

44 CFR requirement 201.6(c)(5): The local hazard mitigation plan shall include documentation that the plan has been formally adopted by the governing body of the jurisdiction requesting approval of the plan. For multi-jurisdictional plans, each jurisdiction requesting approval of the plan must document that it has been formally adopted.

This plan has been reviewed by and adopted with resolutions or other documentation of adoption by all participating jurisdictions and school districts. The documentation of adoptions is included in Appendix D.

The following jurisdictions participated in the development of this plan and have adopted the multi-jurisdictional plan.

- Crawford County
- City of Bourbon
- City of Cuba
- Village of Leasburg
- City of Steelville
- City of Sullivan
- Crawford Co. R-I School District
- Crawford Co. R-II School District
- Steelville R-III School District
- Sullivan School District

Model Resolution

Certifying Official

Witness

RESOLUTION NO.
A RESOLUTION TO ADOPT THE CRAWFORD COUNTY MULTI-JURISDICTION NATURAL HAZARDS MITIGATION PLAN
WHEREAS , (Government/District) recognizes the threat that natural hazards pose to people and property within our community; and
WHEREAS , undertaking hazard mitigation actions will reduce the potential for harm to people and property from future hazard occurrences; and
WHEREAS , the U.S. Congress passed the Disaster Mitigation Act of 2000 emphasizing the need for predisaster mitigation of potential hazards and made available hazard mitigation grants to state and local governments; and
WHEREAS , an adopted Multi-Jurisdiction Natural Hazards Mitigation Plan is required as a condition of future funding for mitigation projects under multiple FEMA pre-and post-disaster mitigation grant programs; and
WHEREAS , (Government/District) fully participated in the FEMA prescribed mitigation planning process to prepare this Mitigation Plan; and
WHEREAS , (Government/District) desires to comply with the requirements of the Disaster Mitigation Act and to augment its emergency planning efforts by formally adopting the Crawford County Multi-Jurisdiction Natural Hazards Mitigation Plan; and
WHEREAS , adoption by the governing body of (Government/District) demonstrates the jurisdiction's commitment to fulfilling the mitigation goals and objectives outlined in this Mitigation Plan; and
WHEREAS , adoption of this legitimizes the plan and authorizes responsible agencies to carry out their responsibilities under the plan;
NOW, THEREFORE BE IT RESOLVED, that (Government/District) adopts the Crawford County Multi-Jurisdictional Natural Hazards Mitigation Plan as an official plan and will submit this Adoption Resolution to the Missouri Emergency Management Agency and the Federal Emergency Management Agency officials to enable the plan's final approval.

Date