

Stone County Hazard Mitigation Plan Update Kick-Off Meeting

July 25, 2017

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Southwest Missouri Council of Governments



Southwest Missouri
Council of Governments

Outline

- ▶ Introduction to Hazard Mitigation
- ▶ The Planning Process
- ▶ Participation Requirements
- ▶ Future Meeting Dates

What is Hazard Mitigation and why is it important?

- ▶ Mitigation - taking action now to reduce or eliminate long-term risk to human life and property from hazard events.
 - ▶ Examples - FEMA tornado shelters, low water crossing improvements, policies limiting construction in flood plain areas, river bank improvements
- ▶ Mitigation Planning - process for communities to...
 - ▶ Identify hazards to which they are at risk
 - ▶ Assess the potential impact
 - ▶ Develop goals, objectives, and actions to reduce impacts; and
 - ▶ Prioritize and implement mitigation actions

What is Hazard Mitigation and why is it important?

- ▶ Costs rising from natural disasters
 - ▶ Increased development - more exposure
 - ▶ Increased cost to the federal government
 - ▶ Increased frequency of natural disasters:
 - ▶ 1980s - 286
 - ▶ 1990s - 737
 - ▶ 2000s - 1,265
 - ▶ 2010-Present - 872

Stone County Disaster Declarations 1990-Present

Disaster Number	Description	Declaration Date	Individual Assistance (IA) Public Assistance (PA)
4317	Severe Storms, Tornadoes, Straight-line Winds, Flooding	June 2, 2017	Individual & Public Assistance
4250	Severe Storms, Tornadoes, Straight-line Winds, Flooding	January 21, 2016	Individual & Public Assistance
4238	Severe Storms, Tornadoes, Straight-line Winds, Flooding	August 7, 2015	Public Assistance
1980	Severe Storms, Tornadoes, Flooding	May 9, 2011	Individual & Public Assistance
1847	Severe Storms, Tornadoes, Flooding	June 19, 2009	Public Assistance
1822	Severe Winter Storms	February 17, 2009	Public Assistance
1809	Severe Storms, Tornado, Flooding	November 13, 2008	Individual & Public Assistance
1773	Severe Storms, Flooding	June 25, 2008	Individual & Public Assistance
1749	Severe Storms, Flooding	March 19, 2008	Individual & Public Assistance
1742	Severe Storms, Tornadoes, Straight-line Winds, Flooding	February 5, 2008	Public Assistance
1676	Severe Winter Storms, Flooding	January 15, 2007	Public Assistance
1463	Severe Storms, Tornadoes, Flooding	May 6, 2003	Individual Assistance
1412	Severe Storms, Tornadoes	May 6, 2002	Individual & Public Assistance
1054	Severe Storm, Tornadoes, Hail, Flooding	June 2, 1995	Individual & Public Assistance
995	Flooding, Severe Storm	July 9, 1993	Individual & Public Assistance

The Disaster Mitigation Act of 2000

- ▶ Required by law for local governments to develop a hazard mitigation plan in order to receive funding for mitigation projects.
 - ▶ Funds available - 75/25
 - ▶ **Hazard Mitigation Grant Program (HMGP)** - assists in funding of mitigation projects during the reconstruction period after the declaration of a presidential disaster.
 - ▶ **Pre-Disaster Mitigation (PDM)**- provides funds on an annual basis for mitigation planning and the implementation of mitigation projects.
 - ▶ **Flood Mitigation Assistance (FMA)**- provides funds on an annual basis to reduce or eliminate risk of flood damage to buildings insured under the NFIP; repetitive and severe repetitive loss.
- ▶ Mitigation plans must be updated every five years to be eligible for mitigation funding

The Planning Process

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9 Tasks in the Planning Process

- ▶ Task 1: Determine the Planning Area and Resources → Completed
- ▶ Task 2: Build the Planning Team- Completed → YOU ARE THE TEAM!
- ▶ Task 3: Create an Outreach Strategy→ Today
- ▶ Task 4: Review Community Capabilities→ Questionnaire
- ▶ Task 5: Conduct a Risk Assessment → Meeting #2
- ▶ Task 6: Develop a Mitigation Strategy→ Meetings #3 and #4
- ▶ Task 7: Review and Adopt the Plan → Meeting #5 and on your own
- ▶ Task 8: Keep the Plan Current → That's YOU!
- ▶ Task 9: Create a Safe and Resilient Community→ That's YOU!

Risk Assessment

Natural Hazards

- ▶ Drought
- ▶ Dam Failure
- ▶ Earthquake
- ▶ Flood
- ▶ Heatwave
- ▶ Severe Land Subsidence (Sinkholes)
- ▶ Severe Thunderstorm
- ▶ Severe Winter Weather
- ▶ Wildfire
- ▶ Tornado

Hazard Profile

- ▶ Hazard Description
- ▶ Geographic Location
- ▶ Severity/Magnitude/Extent
- ▶ Previous Occurrences
- ▶ Probability of Future Occurrences

Vulnerability Assessment

- ▶ Vulnerability Overview
- ▶ Potential Losses to Existing Development
- ▶ Impact of Previous and Future Development
- ▶ Hazard Summary by Jurisdiction

Problem Statement

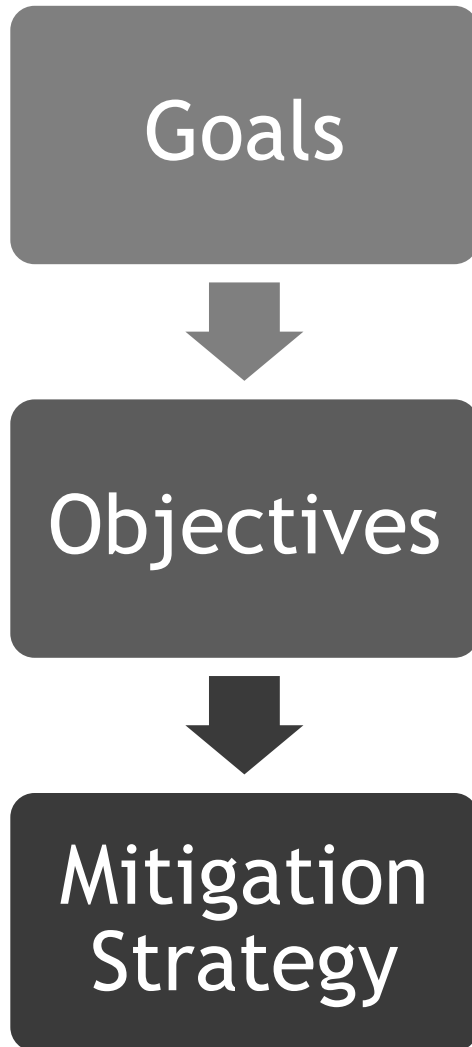
Risk Assessment

Example: Flooding

NCDC Stone County Riverine Flooding Events by Location, 1998-2017	# of Events
Unincorporated Stone County	11
Low water crossings, rivers, streams countywide (2/24/2001), (12/16/2001), (5/7/2002), (5/17/2002), (4/22/2004), (1/12/2005)	
Table Rock Lake (5/12/2002)	
Numerous roads countywide (1/4/2005)	
Bass Hollow Road (4/24/2011)	
Route O along Tory Creek and Route U along James River (6/19/2015)	
City of Crane	2
General Flooding (3/19/2008)	
City Park Road (4/24/2011)	
City of Hurley	3
Several streets (4/24/2011)	
Route A near Spring Creek (1/29/2013)	
Route A, Highway CC, and Route BB at Crane and Spring Creek (4/3/2015)	
City of Galena	1
20 homes near James River (12/28/2015)	
City of Reeds Spring	2
Railey Creek Road (4/24/2011)	
Railey Creek near Highway 413 (11/17/2015)	

Source: National Climatic Data Center

Develop Mitigation Strategies



- ▶ Reference completed questionnaires
- ▶ Risk Assessment
- ▶ Current needs of community
- ▶ Identify strengths and weaknesses

Review & Prioritize Mitigation Strategies

► STAPLEE score

- Social
- Technical
- Administrative
- Political
- Legal
- Economic Environmental

► Prioritizes and determines feasibility

Handout 16-7: STAPLEE Criteria Worksheet

Worksheet #4 Evaluate Alternative Mitigation Actions **step 2**

1. Fill in the goal and its corresponding objective. Use a separate worksheet for each objective. The considerations under each criterion are suggested ones to use; you can revise these to reflect your own considerations (see Table 2-1).

2. Fill in the alternative actions that address the specific objectives the planning team identified in Worksheet #1.

3. **Scoring:** For each consideration, indicate a plus (+) for favorable, and a negative (-) for less favorable.

When you complete the scoring, negatives will indicate gaps or shortcomings in the particular action, which can be noted in the Comments section. For considerations that do not apply, fill in N/A for not applicable. Only leave a blank if you do not know an answer. In this case, make a note in the Comments section of the "expert" or source to consult to help you evaluate the criterion.

Goal: _____

Objective: _____

STAPLEE Criteria	S (Social)	T (Technical)	A (Administrative)	P (Political)	L (Legal)	E (Economic)	E (Environmental)
Considerations → for Alternative Actions ↓	Community Acceptance Effect on Segment of Population Technical Feasibility Long-term Solution Secondary Impacts Staffing Funding Allocated Administrative/Operational Political Support Local Champion Public Support State Authority Existing Local Authority Potential Legal Challenge Benefit of Action Cost of Action Contributes to Economic Goals Outside Funding Recreation Effect on Land/Water Effect on Endangered Species Effect on HAZARDOUS Potential for Consistent with Environmental Goals Consistent with Federal Laws						

Source: Federal Emergency Management Agency. 2003. *State and Local Mitigation Planning How-To Guide: Developing the Mitigation Plan – Identifying Mitigation Actions and Implementation Strategies*. FEMA. http://www.fema.gov/fima/planning_howto3.shtml

Adoption of Hazard Mitigation Plan

- ▶ Each participating jurisdiction is required to adopt hazard plan
 - ▶ Signed by a certified official
- ▶ Mail, email, or fax will be acceptable

Barry County, Missouri
Resolution # 91516

**ADOPTING THE BARRY COUNTY MULTI-JURISDICTIONAL
NATURAL HAZARD MITIGATION PLAN (UPDATED 2016)**

Whereas, The Barry County Commission 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 ("Disaster Mitigation Act") emphasizing the need for pre-disaster mitigation of potential hazards;

Whereas, the Disaster Mitigation Act made available hazard mitigation grants to state and local governments; and

Whereas, an adopted Local Hazard 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, Barry County fully participated in the hazard mitigation planning process to prepare this Multi-Jurisdictional Local Hazard Mitigation Plan; and

Whereas, the Missouri State Emergency Management Agency and the Federal Emergency Management Agency Region VII officials will review the "Barry County Multi-Jurisdictional Local Hazard Mitigation Plan," and approved it as to form and content; and

Whereas, the Barry County Commission desires to comply with the requirements of the Disaster Mitigation Act and to augment its emergency planning efforts by formally adopting the Barry County Multi-Jurisdictional Local Hazard Mitigation Plan; and

Whereas, adoption by the governing body of Barry County demonstrates the jurisdictions' commitment to fulfilling the mitigation goals outlined in this Multi-Jurisdictional Local Hazard Mitigation Plan; and

Whereas, adoption of this legitimizes the plan and authorizes responsible agencies to carry out responsibilities under the plan;

Now, therefore, be it resolved, that the Barry County Commission has adopted the "Barry County Multi-Jurisdictional Local Hazard Mitigation Plan" as an official plan.

Date: 9-15-16

Certifying Official: *Jeffrey W. Winters*

Keep the Plan Current & Create Safe Community

- ▶ FEMA requires a formal plan maintenance process to ensure that the mitigation plan remains an active and relevant document
- ▶ Your jurisdiction and County Emergency Management Officials
- ▶ Review plan and strategies annually

Participation Requirements

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Participation

- ▶ In order to officially “participate” a jurisdiction must:
 - ▶ Complete Capabilities Assessment Questionnaire
 - ▶ A representative must be in attendance at a minimum of two meetings
 - ▶ Record in-kind time and complete timesheets
 - ▶ Adopt the Hazard Mitigation Plan
- ▶ Participation of your jurisdictions gives you access to grant funds provided by FEMA.

Mitigation Plan Funding

- ▶ SEMA covers 75% of the cost
- ▶ Grants require a 25% non-federal match
 - ▶ Local cash match
 - ▶ In-kind time and effort

Time and Effort Rates

- ▶ Hourly rate calculation
 - ▶ Annual Salary/2080
- ▶ Hourly rate for volunteer time in Missouri:
 - ▶ \$21.57
- ▶ Federal mileage rate
 - ▶ 54¢ per mile

Time Sheets

- ▶ Fill out accurately
- ▶ Keep track of hours and mileage
 - ▶ Round up
- ▶ Elected officials **MAY NOT** count their time

IN-KIND DOCUMENTATION

Barry County Multi-Jurisdictional Hazard Mitigation Plan 2016

Reporting Month: Month Year

LABOR

Date	Service Performed	Hours	Mileage (Roundtrip)
Total		0	0

Organization:

Employee Name:

Employee Title:

Hourly Rate:

Total Labor Charge:

Total Mileage Charge:

Comments: _____

Employee Signature

Supervisor Signature

Future Meetings

- ▶ Meeting 2: August 15, 1 p.m.
 - ▶ Facilitated Risk Assessment Discussion
 - ▶ Questions
- ▶ Meeting 3: September 26, 1 p.m.
 - ▶ Review Goals, Objectives & Mitigation Strategies
 - ▶ Questions
- ▶ Meeting 4: October 24, 1 p.m.
 - ▶ STAPLEE Scoring of Mitigation Strategies
 - ▶ Questions
- ▶ Meeting 5: November 14, 1 p.m.
 - ▶ Final Wrap-Up
 - ▶ Plan Maintenance

Draft Plan Submitted to SEMA: February 1, 2018
Final Plan Approval By: May 17, 2018



Thank you for your time!

Any questions?

Contact Information

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For more information, visit our website
www.smcog.org