

**Randolph County  
Missouri  
Natural Hazard Mitigation Plan  
Five Year Update**

**Section 4**

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Natural Hazard Mitigation Plan  
Five Year Update**

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# Mitigation

## 5 Year Review, Update and Revision Process

All Hazard Mitigation Plans are required to be revised every five years after initial approval by FEMA. The first Randolph County Multi-Jurisdiction Natural Hazard Mitigation Plan was finalized in April 2008. Randolph County and the cities of Cairo, Clark, Clifton Hill, Higbee, Huntsville, Jacksonville, Moberly, Renick, Higbee R-VIII SD , Moberly SD , NE Rand R-IV SD , Renick R-V SD , Westran R-I SD , and MACC college were contacted to form Hazard Mitigation Committees.

Three committee meetings were held with each jurisdiction to review and update the 2008 plan. These meetings were held in April through December, 2011 and November 2013 through May 2014. A final meeting was held in May 2014 to discuss the plan maintenance and implementation and a review of the entire plan.

At the **initial meeting**, the committee reviewed and discussed the applicability of each section in the original Hazard Mitigation Plan and opted to update all sections of the plan and re-organize and simplify the plan.

**Section 1** will be updated with new dates, new Hazard Mitigation Committee Members, and the process to update and review the original plan for this Five Year Update. Also the committees completely revamped the Goals and Objectives to be met by this plan.

**Section 2** will be updated with the county profile as needed along with storm history updated for the last five years.

**Section 3** will be updated to include the hazards of Levee Failure, and Sinkholes. The original Hazard Profiles Worksheets will be reviewed and updated, new Hazard Profile Worksheets will be created for the three new hazards considered. Also the repetitive losses were updated, and Vulnerability Worksheets will be updated.

**Section 4** contains the Mitigation Action Items that the original Hazard Mitigation Committee developed for the County; these action items will be reviewed in detail and revised and updated as needed.

**Section 5** will be updated with a signed Resolution from the County, each of the cities, and the five school districts.

**Section 6** will be updated with new storm history from the national weather service.

At the **first meeting** the committee members were given a questionnaire and map and asked to provide updated information on critical response capabilities and assets within their communities for the next meeting.

At the **second committee meeting** the committee reviewed the Introduction, Hazard Risk and Assessment, and Profile sections. Utilizing the committee's information and suggestions, these portions of the plan were updated. The hazards of Sinkholes, and Levee Failure were added to the hazards discussion in this revision and this section was updated with historical data as well as the latest storm and hazard records. The Profile section was updated the most recent U.S. Census data. The committee also reviewed and updated the information on all capabilities and vulnerabilities.

The **third meeting and final meeting** was held to discuss the mitigation action items developed in the 2008 plan and if they were completed, needed revision or were to be deleted, and any new action items that the committee felt were needed. The result of those meetings is summarized in the 5 Year Mitigation Action Matrix. The committee was focused on plan maintenance and implementation and review of the entire plan. Annual assessments will be conducted by the County's Emergency Management Director and will be open to the public. Press releases in local newspapers will encourage

public participation in the assessment process. Plan copies will be publicly accessible in each local jurisdiction for review and comment by county citizens.

When the drafts of the final plan was submitted to SEMA (November 2014) and to FEMA for review the draft of the plan was posted on the website [www.talleyconsultants.com](http://www.talleyconsultants.com) and each committee was notified by phone and/or additional comments, corrections or additions were solicited.

The 2008 Action Items and the Five Year Update revisions are also analyzed using **STAPLEE** (action items that were socially acceptable, technically feasible, administratively executable by local communities, politically acceptable, legally implemented by county, economically feasible and environmentally sound (**STAPLEE**)). A summary of the **STAPLEE** guidelines for each action item can be found at the end of this section just before the 5 Year Mitigation Action Matrix. The 2008 action items are listed, and the **Five Year Update revisions and new action items are in bold print.**

## Planning Process

Meetings with the Hazard Mitigation Committees served as the method to obtain input and identify priorities in developing goals for reducing risk and preventing loss from natural hazards in Randolph County. Articles in the local papers informed the public that hazard mitigation planning was occurring in their communities and they were invited to let their concerns be known. The Hazard Mitigation Committees met to determine action items that would address each of the plans goals, determine which organizations or groups within the county would be responsible for the action, an estimated timeline for the action, and to prioritize the action items.

In accordance with Missouri's "sunshine law" (RSMo 610.010, 610.020, 610.023, and 610.024), the public was notified each time the Hazard Mitigation Committees met and the plan, or sections of the plan were presented for review. Meeting dates and locations were also posted on [www.talleyconsultants.com](http://www.talleyconsultants.com) Input from the general public was solicited through media outlets and various reminders at public gatherings. Prior to the first meeting with each jurisdiction, an e-mail and an attachment describing the process was sent to commissioner, mayor, chairman of the board or college president. A request was made in that e-mail that a Hazard Mitigation Committee be set up for that jurisdiction, along with a committee chairman who would **send out notices to stakeholders and adjacent communities of all upcoming Hazard Mitigation meetings.** A copy of the e-mail and attachment, "The Process", can be found in Section 6

The planning committee was composed of members drawn from local entities, city and county representatives as well as citizens from each jurisdiction. Representatives worked to provide information about their jurisdictions through worksheets and meeting attendance which was utilized in the plan update. Input from the general public was also solicited prior to each meeting by the committee chairperson. Every effort was made by the Hazard Mitigation committees to include more individuals in the Five Year review and updating process. Meeting sign-in sheets can be found in Section 6.

## Definition of Mitigation

Mitigation is defined as "...sustained (long-termed) action that reduces or eliminates long-term risk to people and property from natural hazards and their effects." It describes the ongoing effort at the Federal, State, local and individual levels to lessen the impact of disasters upon our families, homes, communities and economy. (HMP Handbook p.15)

## Mission Statement

The mission of the Randolph County Natural Hazards Mitigation Plan is to promote sound public policy designed to protect citizens, critical facilities, infrastructure, private property, and the environment from natural hazards. This can be achieved by increasing public awareness, documenting the resources for risk reduction and loss-prevention, and identifying activities to guide the county towards building a safer, more sustainable community.

## Multi-Hazard Mission, Goals, Objectives, Action Items and Strategies

This section describes the framework that focuses the plan on developing successful mitigation strategies. The framework is made up of four parts: the **Mission, Goals, Objectives and Action Items and Strategies**.

### Mission

The mission of the Randolph County Natural Hazards Mitigation Plan is to promote sound public policy designed to protect citizens, critical facilities, infrastructure, private property, and the environment from natural hazards. This plan will work in conjunction with plans in place listed at the end of the community profiles.

### Goals

The plan goals describe the overall direction that Randolph County agencies, organizations, and citizens can take to minimize the impacts of natural hazards. The goals are stepping-stones between the broad direction of the mission statement and the specific recommendations that are outlined in the action items.

### Objectives

The plan objectives are significant results that contribute to the achievement of the plan goals. The objectives will be fulfilled by a combination action items and strategies that will be completed within a specific time frame.

### Action Items and Strategies

The action items are a listing of activities in which county agencies and citizens can be engaged to reduce risk. Each action item includes an estimate of the timeline and strategies for implementation. When developing mitigation strategy, the planning committee followed several guidelines for selection of action items. They looked for action items that were **s**ocially acceptable, **t**echnically feasible, **a**dministratively executable by local communities, **p**olitically acceptable, **l**egally implemented by county, **e**conomically feasible and **e**nvironmentally sound (STAPLEE). The planning committee eliminated no action items after the STAPLEE guidelines were followed. A summary of the STAPLEE guidelines for each action item can be found at the end of this section.

## Mitigation Plan Goals/ Objectives

**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

Objective 1 Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.

Objective 2 Publicize appropriate mitigation measures for future natural hazards.

Objective 3 Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.

**Goal 2** Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.

Objective 1 Build and support local partnerships to lessen the effects of natural hazards.

Objective 2 Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities.

Objective 3 Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.

**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

Objective 1 Incorporate mitigation procedures and planning into the community.

Objective 2 Encourage private involvement in mitigation activities.

Objective 3 Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

## Organization of the Mitigation Action Items

The mitigation plan identifies action items developed through data collection and research. Action items were determined that pertained to all the natural hazards that face Randolph County. To help ensure active implementation, each action item includes information on the timeline and coordinating organizations. Upon implementation, the coordinating organizations may look to partner organizations for resources and technical assistance.

- **Coordinating Organization.** The coordinating organization is the organization that is willing and able to organize resources, find appropriate funding, or oversee activity implementation, monitoring, and evaluation. Coordinating organizations may include local, county, or regional agencies that are capable of or responsible for implementing activities and programs.
- **Timeline.** Action items include both short and long-term activities. Each action item includes an estimate of the timeline for implementation.
- **Funding Sources.** Local funding or Federal or state grants.
- **Priority.** The Mitigation Action Items and Strategies have been assigned a priority based on the STAPLEE analysis and summarized in a Five Year Matrix at the end of this section.

## Participants Five Year Update

Participant	Worksheets/ Mitigation Action Items	Meetings	Email	Meetings with MTRCOG staff
Randolph County	Yes	Yes	Yes	Yes
Cairo	Yes	Yes	Yes	Yes
Clark	Yes	Yes	Yes	Yes
Clifton Hill	Yes	Yes	Yes	Yes
Higbee	Yes	Yes	Yes	Yes
Huntsville	Yes	Yes	Yes	Yes
Jacksonville	Yes	Yes	Yes	Yes
Moberly	Yes	Yes	Yes	Yes
Renick	Yes	Yes	Yes	Yes
Higbee R-VIII SD	Yes	Yes	Yes	Yes
Moberly SD	Yes	Yes	Yes	Yes
NE Rand R-IV SD	Yes	Yes	Yes	Yes
Renick R-V SD	Yes	Yes	Yes	Yes
Westran R-I SD	Yes	Yes	Yes	Yes
MACC college	Yes	Yes	Yes	Yes
CCCB college	Non-participating	No	No	No

Meetings with the Hazard Mitigation Committees served as the method to obtain input and identify priorities in developing goals for reducing risk and preventing loss from natural hazards in Randolph County. Articles in the local papers informed the public that hazard mitigation planning was occurring in their communities and they were invited to let their concerns be known. The Hazard Mitigation Committees met to determine action items that would address each of the plans goals, determine which organizations or groups within the county would be responsible for the action, an estimated timeline for the action, and to prioritize the action items.

In accordance with Missouri's "sunshine law" (RSMo 610.010, 610.020, 610.023, and 610.024), the public was notified each time the Hazard Mitigation Committees met and the plan, or sections of the plan, was presented for review. Input from the general public was solicited through media outlets and various reminders at public gatherings. Prior to the first meeting with each jurisdiction, an e-mail and an attachment describing the process was sent to commissioner, mayor, chairman of the board or school superintendent. A request was made in that e-mail that a Hazard Mitigation Committee be set up for that jurisdiction, along with a committee chairman who would **send out notices to stakeholders and adjacent communities of all upcoming Hazard Mitigation meetings**. A copy of the e-mail and attachment, "The Process", can be found in Section 6

The planning committee was composed of members drawn from local entities, city and county representatives as well as citizens from each jurisdiction. Representatives worked to provide information

about their jurisdictions through worksheets and meeting attendance which was utilized in the plan update. Input from the general public was also solicited prior to each meeting by the committee chairperson. Every effort was made by the Hazard Mitigation committees to include more individuals in the Five Year review and updating process. Meeting sign-in sheets can be found in Section 6. The names of committee members and the jurisdictions represented in the planning process are on the following pages.

In addition, the Hazard Mitigation Committees for the cities Cairo, Clark, Clifton Hill, Higbee, Huntsville, Jacksonville, Moberly, Renick, Higbee R-VIII SD , Moberly SD , NE Rand R-IV SD , Renick R-V SD , Westran R-I SD , and MACC college determined mitigation items specific to their communities.

## Randolph County---Hazard Mitigation Committees- Five Year Update

### Randolph County

Susan Carter	Presiding Commissioner
Jerry Crutchfield	Western Commissioner
Wayne Wilcox	Eastern Commissioner
Justin Roberts	Floodplain Administrator
Marie Arp	Deputy Clerk
F Thomas	Deputy Sheriff
Jesarae Oliver	Deputy Clerk
Brandan Downing	Road and Bridge Dept.
Ralph E. Shoerder	Road and Bridge Dept.
Dale Herron	Road and Bridge Dept.
Rob Spangler	Road and Bridge Dept.
Brad Grapes	Road and Bridge Dept.
Eric Nelson	Road and Bridge Dept.
Eddie Case	Road and Bridge Dept.
Ross McKinstry	Health Dept. Admin.
Mike McKeown	Farmer
Trans Ginta	General Manager
Joe Ivy	Operations Manager
Phil Merry	Citizen
Susan Fennel	Citizen
Dave Gass	Merchant
Janet Murray	Health Dept.
J. V. Joahy	Operator
James Gibson	Road and Bridge Dept.
Rick Taylor	Investigator
Bob Bauer	Citizen
Mark Warren	Road and Bridge Dept.
Nevin Turner	Sheriff's Office
Denise Crutchfield	Deputy recorder
Elaine Avery	Salvation Army
Regina Ragsdale	Randolph County GIS
Jacob Wipaman	Road and Bridge Dept.
Kim Dickerson	Associated Electric
Amber Mozeleski	Firefighter
Scott Mallory	Engineer
Bruce Ferrel	Firefighter
Al Goodger	Captain NERIV
Jeff Linsley	Pipeline Technician
Kenny Graham	Pipeline Technician
Erica Horton	Firefighter
Jacob Curless	Firefighter
Jon Evans	Firefighter



## School Districts

Ronald E. Hay	Higbee R-8 School District Superintendent
Tim J. Roling	Moberly School District Assist. Superintendent
Tim J. Roth	Moberly School District Principal
Darren Rapert	NE Rand R-4 School District Superintendent
Dale Davenport	NE Rand R-4 School District Director of Maintenance
Tara N. Lewis	Renick R-5 School District Superintendent
Kelly D. Shelby	Westran R-1 School District Superintendent

## Cairo

Nancy Bragg	City Clerk
Jerry Frans	Chairman of Board
Bob McCale	Citizen
Richard Dougherty	Fire Dept Board
Shelli Dougherty	Citizen
Luke McDonald	Board Member
Zane Wharton	Pastor
Al Goodgee	Firefighter
Lisa Nelson	Fire Dept.
Jason Nelson	Firefighter
Harold Muehe	Fire Chief
Tom Denton	Pastor

## Clark

Mark L Wibbs	City Clerk
Jamie Dougherty	Mayor
Vic Sharp	Fire Chief
Glenn Rush	Citizen—retired Columbia Fire Dept.
Randy Neeson	Council
Jim Willson	Firefighter
Homer Colley	Water Operator
Harold Cable	Council

## Clifton Hill

Danita C Eagan	Citizen
Dottie Wilson	Council
Beverly Dobson	Citizen
Carlene Rudkin	Citizen
Anita Penton	Citizen
Oliver Penton	Mayor
William Barger	Council
Mary Antwiler	Citizen

## Higbee

John Spilman	Pastor
Kathy Bartolacci	Senior Center Director
Richard Garner	Utilities Dept.
Kathy Demirefe	City Clerk
Robert Mathis	Utilities Dept.
Marc Mayes	Utilities Worker
Ricky Switzer	Utilities Supervisor

## Huntsville

Carl E. Gordy	Mayor
Tom Bell	Happy Homes President
Kevin Nejedly	Utilities Superintendent
Lonnie Kallmeyer	Assisted Living
Michael Hopper	Police Chief
Bobbi Nejedly	Citizen

## Jacksonville

Charlene Barron	Mayor
John S Harkness	Board Member
Bob Norris	Citizen
Clinton Cockran	Firefighter
James Vestar	Firefighter
Dennis Barren	Citizen
Jason Nelson	Firefighter

## Moberly

Tom Sanders	Director Public Works
Greg Hodge	Director of Finance
Steve Wilson	Building Inspector
Shirley Olney	Executive Assistant
Rick Ridgway	Building Inspector
Robert L. Creed	Emergency Management Director
Keith Phipps	Director of Public Utilities

## Renick

Linda Booker	City Clerk
Ann Schindler	Citizen
Al Schindler	Board
Jim Wilson	Firefighter SERFPD
Joe Green	Citizen

## MACC college

Dr. Jeff Lashley	President
Lori Perry	Security

## Economic Analysis of Mitigation Projects--Cost Benefit Review

**Cost-Benefit Review** – takes into account the monetary and non-monetary costs and benefits associated with each action. Conducting a benefit/cost review for a mitigation activity can assist communities in determining whether a project is worth undertaking now, in order to avoid disaster-related damages later. Determining the economic feasibility of mitigating natural hazards can provide decision makers with an understanding of the potential benefits and costs of an activity, as well as a basis upon which to compare alternative projects.

Utilizing the previous Natural Hazards Mitigation Plan, the Randolph County Hazard Mitigation Committee has a comprehensive list of possible hazards and ways to mitigate their impact. The benefit/cost is determined by considering the number of citizens served by the action, the long-term effects of said action, and a number of other factors.

The Cost-Benefit Review was a very important step in the prioritization of mitigation actions found in this plan. Each jurisdiction looked at each mitigation action they discussed and answered a few questions:

- How many people in various demographics could be affected by the Hazard that the action addresses?
- What is the extent or the degree that a natural hazard event could affect a particular area?
- How much property damage might occur and what will be the resulting monetary cost?
- How many properties or physical assets might have loss of use?
- How many people might lose their life?
- How many people might be injured?
- How can each action item be implemented?
- What are the possible sources of funding available for the implementation?

The information needed to answer these questions effectively can be found throughout the plan. This information assisted each jurisdiction in answering these questions.

## Re-evaluation and Priority of 2008 Action items

All the Mitigation Action Items from the 2008 Plan are listed in this section. Each action item includes an estimate of the timeline for implementation. When developing mitigation strategy, the planning committee followed several guidelines for selection of action items. They looked for action items that were (STAPLEE):

**S** socially acceptable,  
**T** technically feasible,  
**A** administratively executable by local communities,  
**P** politically acceptable,  
**L** legally implemented by county,  
**E** economically feasible and  
**E** environmentally sound (STAPLEE).

However, Five year Update changes to the action items are highlight in **Bold Type**. Each action item from the original 2008 Hazard Mitigation Plan was first updated with any changes, and then discussed if the action item was completed, or needs to be continued, or deleted. Also some new action items were added.

Each of the revised or new action items were then re-evaluated and ranked as High, Medium or Low priority. The Hazard Mitigation committee decided that a more robust and logical approach to determining priority based on costs and benefits. The methodology used for ranking is described below.

The mitigation action items are classified as ongoing or given a specified timeline. The plan covers actions planned for the next five (5) years. The Hazard Mitigation Committees will meet on a regular basis to monitor progress on the Mitigation Actions within their communities. This plan will be updated and re-evaluated again in five years.

## Five-Year Action Plan Matrix

The Mitigation Plan contains a five-year action plan matrix, background on the purpose and methodology used to develop the mitigation plan, a profile of Randolph County, sections on the natural hazards that occur within the county, profiles of Cairo, Clark, Clifton Hill, Higbee, Huntsville, Jacksonville, Moberly, Renick, Higbee R-VIII SD , Moberly SD , NE Rand R-IV SD , Renick R-V SD , Westran R-I SD , and MACC college hazard mitigation actions developed by each of the those incorporated cities.

The Randolph County Natural Hazards Mitigation Action Plan includes resources and information to assist county residents, public and private sector organizations, and others interested in participating in planning for natural hazards. The action items address multi-hazard issues, as well as activities for flood, tornadoes and storms, severe winter weather, earthquake, dam failure, heat and drought, levee failure, landslides, sinkholes, and wildfire hazards.

## Significant Mitigation Progress since 2008

The most significant progress in Randolph County in mitigation actions since 2008 is the approval to establishment of a full time Emergency Management Director for the county (2015) and an emergency manager in all the communities. Also the county has contracted and EAS (Code Red) to contact all emergency personnel and all citizens in the event of a hazardous event. This contact is made via phone, cell phone, webpage and social media sites. In addition warning sirens have been installed in every community (except Jacksonville, which will get a siren within the next year) and is tested monthly.

The Randolph County Hazard Mitigation Plan 2008 was written to be a working document to guide participating jurisdiction in Audrain County to work to mitigate potential hazards. The plan was publically available on two websites; <http://www.marktwaincog.com> and <http://www.talleyconsultants.com>. The maintenance of the original plan called for annual reviews by the Hazard Mitigation Committee. These formal meetings did not take place for various reasons of scheduling, timing, lack of personnel and time. While the annual reviews did not occur, many activities were implemented since the adoption of the original plan. Some of the mitigations actions are listed below are identified as completed.

- Warning sirens have been installed in every incorporated city in the county, except Jacksonville, which will have a siren within the next year, and tested monthly.
- A second EOC will be established and equipped at the new courthouse, scheduled 2015
- Ordinance was passed to not allow development in floodplains.
- All burning must be coordinated by Fire Departments and/ or 911.
- EAS (Early Alert System) Code Red was established throughout the county.
- Hiring of full time EMD (Emergency Management Direction) to coordinate mitigation activities.

The following are among the mitigation actions due to their nature will continue as **ongoing** actions:

- The Floodplain Ordinance will be updated and implemented.
- Maintain Mutual Aid agreements
- Establish formal agreements with appropriate shelter locations throughout the county
- Participate in Table-top exercises.
- Develop public education with respect to hazard awareness.
- Ensure that all school buses have two-way communication.
- Promote the use of NOAA radios

If an Action Item is classified as “**ONGOING**”, the committee has determined that it was a beneficial mitigation action to continue. Most of the ongoing action items will continue to be beneficial as education and training as new citizens move in to the area and new emergency and governmental personnel are added. Therefore, these actions do not have a “completion” date.

## **Incorporation into Existing Planning Mechanisms**

After each annual meeting, the committee members will meet with their local jurisdictions to report the status of their review and encourage the local governments to implement any updates needed into the local planning documents. Randolph County currently utilizes comprehensive land use planning, capital improvements planning to guide and control development within the county. After Randolph County officially adopts the Hazard Mitigation Plan, these existing mechanisms will have mitigation strategies integrated into them.

Upon adoption of the Randolph County Natural Hazards Mitigation Plan, the plan will serve as a baseline of information on the natural hazards that impact Randolph County and the cities of Cairo, Clark, Clifton Hill, Higbee, Huntsville, Jacksonville, Moberly, Renick, Higbee R-VIII SD , Moberly SD , NE Rand R-IV SD , Renick R-V SD , Westran R-I SD , and MACC college. These mitigation goals and objectives will help local governments and other organizations in the Randolph County plan for natural hazard mitigation in their own planning documents. The meetings of the Hazard Mitigation Committees will provide an opportunity for committee members to report back on the progress made on the integration of mitigation planning into the county and city planning documents and procedures.

Below is a listing of some of the current planning documents that will be used:

**Randolph County/ Moberly Comprehensive Plan**

**Randolph County Local Emergency Operations Plan**

**Randolph County Emergency Operations Plan,**

**Hazardous Materials Response, LEPC**

**Building Codes**          City of Moberly

**Crisis Management Plan**      Higbee R-VIII SD, Moberly SD, NE Rand R-IV SD,  
Renick R-V SD, and Westran R-I SD

## **Mitigation Programs**

Mitigation entails taking actions to reduce or eliminate injury, loss of life, and property damage from natural hazards. The first Randolph County Natural Hazards mitigation plan was implemented in 2008. Through public involvement and planning, the county has adopted this policy. Though the focus remains on rescue and response, a number of mitigation efforts have been implemented.

- Randolph County's Emergency Plan and LEPC contain mitigation measures.
- Randolph County receives NWS warnings, and the sheriff's office is staffed on a 24-hour basis by dispatch personnel. Additionally, the county has implemented the use of a text messaging warning system through cell phones. For those outside of incorporated areas, this measure has increased both awareness and the effectiveness of the county's warning system. However, large-scale warning equipment (sirens, etc.) is still limited to the county's municipalities and the means used to alert each respective community varies. The use of local media remains prevalent as an effective warning system.
- Randolph County works collaboratively with all municipalities in identifying key sites in each incorporated area as well as sharing information regarding any/all natural threats with those entities that are interested in hazard response and mitigation.

- Randolph County works conjunctively with local media (newspapers, radio, cable providers, and Internet service providers) to both provide information to the public and highlight mock disasters in an effort to raise public awareness about natural hazards and the planned responses. Various trainings, including weather spotting courses, have been offered to help mitigate the effects of severe weather upon the county's citizenry.
- All Randolph County schools have written and compiled an all-hazards plan which includes mitigation measures for natural disasters.
- The Emergency Management Director keeps a working reference library of all materials regarding disaster response, natural hazard mitigation, and rescue/evacuation plans. The reference material is freely shared with the public as well as interested municipal official
- Code Red EAS has been implemented countywide and all citizens are encouraged to sign up for alerts.
- EMDs and emergency personnel, police, and firefighters from all communities are encouraged to participate in the several table-top exercises and drills that the county and state conducts each year

## Prioritization of Actions using STAPLEE and Benefit/Cost Reviews

After reviewing the Hazard Mitigation Plan for Monroe County, Missouri, the committee adopted their approach to prioritization of the Mitigation Action items.

Members of the Hazard Mitigation Committee carried out a STAPLEE review and Benefit/Cost review on the mitigation action items. The following guidelines were used:

### STAPLEE Review

The questions below were used as starting points for evaluating each action according to the STAPLEE criteria. Scoring:

- 2 = Definitely YES
- 1 = Maybe YES

- **Social:** Is the action socially acceptable to the community?
- **Technical:** Will the proposed strategy work? Will the action independently solve the problem?
- **Administrative:** Is there someone to coordinate and lead the effort?
- **Political:** Is the action politically acceptable? Is there public support both to implement and to maintain the project?
- **Legal:** Is there legal authority to implement the action?
- **Economic:** Will the action benefit the area economically? Does the cost seem reasonable for the size of the problem and the likely benefits?
- **Environmental:** Is the action consistent with local, state, and federal environmental laws and regulations? Will the project have a positive impact on the environment? Will historic structures be saved or protected?

## Benefit/Cost Review

### 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.

### Benefit

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

- Injuries and/or casualties (I,C)
- Property damages (PD)
- Loss-of-function/displacement impacts (LF)
- Emergency management costs/community costs (EMCC)

### Total Score

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

### Priority Scale

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 “YES” answers on STAPLEE (i.e. poor STAPLEE score) and Low Benefit/High Cost: Total Score = 9
- A hypothetical action with “All definitely “YES” on STAPLEE and High Benefit/Little Cost: Total Score = 20

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:

- 14-21 points = High Priority
- 9-13 points = Medium Priority
- 8 points and below = Low Priority

It should be noted all of the actions attained either High or Medium priority rating. Many of the actions are ongoing and already in place but remain high priorities in the work plans of the jurisdictions.

The STAPLEE Review, Benefit/Cost Review, and Final Priority for each of the mitigation actions are shown below.

Prioritization of Mitigation Actions		2= Definitely Yes 1= Maybe Yes 0 = N/A or NO													
Action #	Mitigation Actions	S	T	A	P	L	E	E	STAPLEE TOTAL	Losses Avoided 2 pt. each	Benefit	Cost	B/C Total	TOTAL	PRIORITY
<p><b>Goal 1</b> Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.</p> <p><b>Objective 1</b> Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.</p>															
1.1.1	Have educational brochures on what to do during a tornado or severe storm and natural disasters available at the EOC's, Fire Depts., Courthouse and include on websites.. <b>Also Health Dept, City Hall, City website sign up for Also City Facebook</b>	2	2	2	2	2	1	0	11	IC,PD, EMCC C	6	-1	5	16	H
1.1.2	Randolph County 911 has direct notification of severe weather alerts to schools, nursing homes, hospitals, and Fire Departments. <b>Code Red 40-45% of population</b>	2	2	2	1	2	1	0	11	IC,PD	4	-1	3	14	H
1.1.3	Speaker is available to conduct programs on severe weather safety. <b>Health Fairs, Safety Fairs, businesses</b>	2	2	2	2	2	1	0	11	IC,PD	4	-1	3	14	H
1.1.4	Develop and laminate brochures on what to do during a tornado and post at all campgrounds in county. <b>Bathrooms at campground at Rothwell Park and Sugar Creek Lake Park are also tornado shelters.</b>	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-1	5	17	H
1.1.5	Insert tornado safety and shelter information in the new water hook-up packets for all new citizens of the county.	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-1	5	17	H
1.1.6	Inform local small communities and large groups that the County Health Department has brochures and posters to distribute.	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-1	5	17	H
1.1.7	Informational brochures available to public at Health Dept, fire depts. and courthouse. <b>Also Public announcements on the radio.</b>	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-1	5	17	H
1.1.8	Severe weather cable interrupt is in place on local stations KWIX and KRES. <b>DELETE</b>														



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<p><b>Goal 1</b> Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.</p> <p><b>Objective 2</b> Publicize appropriate mitigation measures for future potential natural hazards.</p>															
1.2.1	Article in paper on tornado safety to be published in early March ahead of normal tornado season. <b>Also Public announcements on the radio</b>	2	2	2	2	2	2	0	12	IC,PD,EMCC	6	-1	5	17	H
1.2.2	Article in paper on winter weather safety to be published in early November ahead of winter season. <b>Also Public announcements on the radio</b>	2	2	2	2	2	2	0	12	IC,PD,EMCC	6	-1	5	17	H
1.2.3	Have educational brochures on what to do during extreme heat and drought conditions and distribute to nursing homes, childcare centers, schools. <b>Also Public announcements on the radio</b>	2	2	2	2	2	2	0	12	IC,PD,EMCC	6	-1	5	17	H
1.2.4	Yearly articles to be published in local papers on earthquake safety. <b>Also Public announcements on the radio</b>	2	2	2	2	2	2	0	12	IC,PD,EMCC	6	-1	5	17	H

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<p><b>Goal 1</b> Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.</p> <p><b>Objective 3</b> Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.</p>															
1.3.1	Promote use of NOAA radios in businesses, private homes, and large gatherings, campgrounds. Have Chamber of Commerce promote NOAA radio use on for its membership and on its webpage.. <b>Ongoing</b>	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-1	5	17	H

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<p><b>Goal 2</b> Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.</p> <p><b>Objective 1</b> Build and support local partnerships to lessen the effects of natural hazards.</p>															
2.1.1	Remove trees from power line easements in addition to current trimming program. <b>Coop with AmerenUE on tree trimming</b>	1	2	2	2	2	2	2	13	IC,PD, LF, EMCC	8	-1	7	20	H
2.1.2	Insure that county school buses are outfitted with two –way communication. <b>Ongoing</b>	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-3	3	15	H
2.1.3	Health Dept. is investigating obtaining portable generator(s) for shelters as funds become available. <b>Ongoing</b>	2	2	2	2	2	2	0	12	LF, EMCC	4	-3	1	13	M
2.1.4	Encourage nursing homes and daycares to purchase tone activated warning receivers. <b>Nursing homes have NOAA radios</b>	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-1	5	17	H
2.1.5	Encourage schools to conduct programs on earthquake safety. <b>Semi-annual</b>	2	2	2	2	2	2	2	14	IC,PD, EMCC	6	-1	5	19	H
2.1.6	Maintain Mutual Aid Agreements with surrounding communities and update on a regular schedule.. <b>Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-1	7	21	H
2.1.7	Maintain and test portable generators available for shelters and investigate purchasing additional generators as funds become available. <b>Ongoing</b>	2	2	2	2	2	2	0	12	LF, EMCC	4	-3	1	13	M

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<b>Goal 2</b> Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.															
<b>Objective 2</b> Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities.															
2.2.1	Conduct and participate regularly scheduled (annually) training for weather spotters. <b>Ongoing</b>	2	2	2	2	2	2	0	12	IC,PD	4	-1	3	15	H
2.2.2	Monthly testing of warning sirens throughout the county. <b>Ongoing</b>	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-3	5	17	H
2.2.3	Purchase additional two-way radios or cell phones for weather spotters as program grows and funds become available. <b>Ongoing</b>	2	2	2	2	2	2	0	12	IC,PD	4	-1	3	15	H
2.2.4	Table top exercise on earthquake safety conducted June 2007, schedule on regular basis. <b>Ongoing</b>	2	2	2	2	2	2	1	13	IC,PD, LF, EMCC	8	-3	5	18	H
2.2.5	Evaluate and upgrade as needed the current emergency response communication infrastructure. <b>Ongoing</b>	2	2	2	2	2	2	0	12	IC,PD	4	-1	3	15	H
2.2.6	Participate in regularly scheduled Table-top exercises and mock emergency exercises, at least annually. <b>Approximately 5-6 per year</b>	2	2	2	2	2	2	1	13	IC,PD, LF, EMCC	8	-3	5	18	H
2.2.7	Investigate the possibility of obtaining a warning siren as funds become available. <b>Add two additional in the next two years, and have back-up batteries on all sirens</b>	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-5	3	15	H
2.2.8	Develop a plan in cooperation with the local fire dept. to sound weather alerts in the community until a warning siren can be obtained. <b>Ongoing</b>	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-3	5	17	H

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<b>Goal 2</b> Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.															
<b>Objective 2</b> Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities.															
2.2.9	Form a committee to compile a list of special needs citizens ( on a voluntary basis). <b>EMS have list--voluntary</b>	2	2	2	2	2	2	0	12	IC, EMCC	4	-1	3	15	H
2.2.10	Develop a plan of action to include a chain of information & call lists in event of a disaster.	2	2	2	2	2	2	0	12	IC, EMCC	4	-1	3	15	H

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<b>Goal 2</b> Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.															
<b>Objective 3</b> Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.															
2.3.1	Encourage Landowners to inspect and maintain their dams according to Dept. of Natural Resources standards. <b>Ongoing</b>	2	2	2	2	2	2	2	14	PD	2	-1	1	15	H
2.3.2	The Thomas Hill dam has its own Emergency Operations plan and Inspection plan, updated every two years. <b>Ongoing</b>	2	2	2	2	2	2	2	14	LF, EMCC	4	-1	3	17	H
2.3.3	The Holiday Acres dam has its own Emergency Operations plan and Inspection plan, updated every three years. <b>Ongoing</b>	2	2	2	2	2	2	2	14	LF, EMCC	4	-1	3	17	H
2.3.4	Maintain & clean blocked culverts on a regular schedule. <b>Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD	4	-3	1	15	H
2.3.5	City can issue watering bans as needed. <b>Ordinance in place</b>	2	2	2	2	2	2	2	14	LF, EMCC	2	-5	-3	11	M
2.3.6	The three dams within the city limits are inspected & maintained to DNR standards. <b>Ongoing</b>	2	2	2	2	2	2	2	14	LF, EMCC	4	-1	3	17	H
2.3.7	Dam at Sugar Creek Lake is inspected by DNR in addition to its inspection of the water plant. <b>Ongoing</b>	2	2	2	2	2	2	2	14	LF, EMCC	4	-1	3	17	H
2.3.8	City has installed a large capacity water tower ( 3 years ago) to insure sufficient water supply for citizens.	2	2	2	2	2	2	2	14	LF, EMCC	2	-5	-3	11	M

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<b>Goal 3.</b> Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.															
<b>Objective 1</b> Incorporate mitigation procedures and planning into the community															
3.1.1	Update and maintain list of buildings that are designated as shelters, distribute list. Update at least annually. <b>“after the event” shelters</b>	2	2	2	2	2	2	0	12	LF, EMCC	4	-1	3	15	H
3.1.2	Maintain snow plowing and removal equipment and upgrade as needed and funds become available. <b>Ongoing</b>	2	2	2	2	2	2	2	14	PD, LF, EMCC	6	-1	5	19	H
3.1.3	Maintain an adequate supply of salt for county roads in icy weather. <b>Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD, EMCC	6	-3	3	17	H
3.1.4	Update and upgrade the county road and bridge policy. <b>Ongoing</b>	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-3	5	17	H
3.1.5	Emergency snow routes are designated by county ordinance. Snow removal plan in place, school bus routes have priority. <b>Ongoing</b>	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-3	5	17	H
3.1.6	Back-up generators available for communications at Sheriff Dept and PSAP (911). <b>Ongoing</b>	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-3	5	17	H
3.1.7	Ensure that “Road Impassable” during high water signs are posted. <b>Ongoing</b>	2	2	2	2	2	2	1	13	LF, EMCC	4	-1	3	16	H
3.1.8	Contract for snow removal.	2	2	2	2	2	2	0	12	IC, EMCC	4	-3	1	13	M

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<p><b>Goal 3.</b> Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.</p> <p><b>Objective 1</b> Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.</p>															
3.1.9	Build a new Fire Station, EOC, and all hazard Shelter. Build as funds become available. <b>New Fire station—5 years EOC at Fire Dept and old Municipal Court room</b>	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-5	3	15	H
3.1.10	Maintain Road and Bridge Equipment <b>Ongoing</b>	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-3	5	17	H
3.1.11	Maintain a supply of extra culverts and materials for repairs for emergency use. <b>Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD, EMCC	6	-3	3	17	H
3.1.12	Maintain, map and update a list of low-lying roads and bridges that are in peril. Sheriff Dept. checks all low lying roads for problems. <b>Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-1	7	21	H
3.1.13	Conduct a study on all “at peril” roads and bridges. Make a plan to upgrade the “at peril” roads and bridges as funds become available. <b>Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-1	7	21	H
3.1.14	Work with FEMA and Army Corp of Engineers to update floodplain map as needed. <b>Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-1	7	21	H
3.1.15	Partnership with NECAC, Health Dept., and churches, and local service clubs for distribution of fans as needed. <b>Ongoing Churches also as needed</b>	2	2	2	2	2	2	0	12	IC, EMCC	4	-3	1	13	M
3.1.16	Establish cooling center at shelter (s). <b>Ongoing</b>	2	2	2	2	2	2	0	12	IC, EMCC	4	-3	1	13	M



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<p><b>Goal 3.</b> Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.</p> <p><b>Objective 1</b> Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.</p>															
3.1.17	Establish EOC (Emergency Operations Center) at the Fire Department. <b>New Fire station—5 years EOC at Fire Dept and old Municipal Court room</b>	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-5	3	15	H
3.1.18	Maintain transportation infrastructure. <b>Ongoing</b>	2	2	2	2	2	2	2	14	PD, LF, EMCC	6	-1	5	19	H
3.1.19	Update Emergency Operating Plan on a regular schedule. <b>Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-3	5	19	H
3.1.20	Review and update as needed the building codes and distribute with new building permits. <b>Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-3	5	19	H
3.1.21	Work with state and federal lawmakers to obtain an additional NOAA broadcast tower or to increase the signal output from surrounding towers to ensure that all areas of Randolph County are covered. <b>DELETE</b>														
3.1.22	Utilities are being placed underground in the business districts, new subdivisions, and new industrial parks.. <b>Ongoing</b>	2	2	2	2	2	2	2	14	PD	2	-1	1	15	H
3.1.23	Water meters are being replaced with electronic read devices to eliminate meter breakages and possible water main breakage or damage. <b>Ongoing</b>	2	2	2	2	2	2	2	14	PD	2	-1	1	15	H
3.1.24	Build new salt storage facility to maintain adequate supply of salt. <b>Ongoing</b>	2	2	2	2	2	2	2	14	PD	2	-1	1	15	H

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<p><b>Goal 3.</b> Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.</p> <p><b>Objective 1</b> Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.</p>															
3.1.25	Investigate evaluation of current structures tolerance and capacities to wind and earthquakes.	2	2	2	2	2	2	2	14	LF, EMCC	2	-5	-3	11	M
3.1.26	Study of current warning siren system and upgrade as needed and funds become available. <b>Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD, EMCC	6	-3	3	17	H
3.1.27	Existing plan in place to have Thomas Hill as the back-up water supply for the City of Moberly. Sugar Creek Lake is the primary water supply for the City of Moberly. <b>Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-3	5	19	H
3.1.28	EOC (Emergency Operations Center) established at the Police Department; alternate EOC is at the Randolph Co. Ambulance Center. <b>Ongoing Will have additional EOC at new Huntsville Courthouse complex</b>	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-3	5	19	H
3.1.29	Water and waste-water plants have back-up generators in place. <b>Ongoing</b>	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-5	3	15	H
3.1.30	Generator is available to pump fuel for city vehicle during power outages. <b>Ongoing</b>	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-5	3	15	H
3.1.31	Investigate communication methods for announcing school closings due to natural hazards. <b>TextCaster in Place,also, radio, TV, and webpages</b>	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-3	5	17	H
3.1.32	Investigate possibility of placing utilities underground	2	2	2	2	2	2	0	12	IC,PD, LF, EMCC	8	-5	3	15	H

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<p><b>Goal 3.</b> Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.</p> <p><b>Objective 1</b> Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.</p>															
3.1.33	Provide NOAA radios for use in residence halls and Ferneau Center as needed. Supply NOAA radios for main MACC campus as well as satellite campuses. <b>Delete</b>														
3.1.34	<b>NEW</b> If and when school district has new construction planned, a tornado safe room will be considered.	2	2	2	2	2	2	0	12	IC,LF EMCC	6	-5	1	13	M
3.1.35	<b>NEW</b> Schools have designated off-campus rally locations for all disasters	2	2	2	2	2	2	0	12	IC, EMCC	4	-1	3	15	H

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<b>Goal 3.</b> Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy. <b>Objective 2</b> Encourage private involvement in mitigation activities															
3.2.1	Encourage Drought resistant farming practices. <b>Ongoing</b>	2	2	2	2	2	2	2	14	PD	2	-1	1	15	H
3.2.2	Set up a schedule to publish timely articles in the local papers on safety during natural hazards throughout the year. <b>Ongoing</b>	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-1	5	17	H
3.2.3	Coordinated with 4-H clubs to distribute safety information at the county fair.	2	2	2	2	2	2	0	12	IC,PD, EMCC	6	-1	5	17	H
3.2.4	Make a master list of needs for emergency management for the county (such as radios, etc.), post on Randolph County webpage and encourage local businesses to donate items or funds to obtain. <b>DELETE</b>														
3.2.5	Investigate passing an ordinance to require any new trailer parks to provide an on-site storm shelter. <b>Incorporated into new comprehensive e plan for city</b>	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-3	5	19	H
3.2.6	Distribute Design Construction Awareness Brochures with Building permits, "Builders Kit" <b>Ongoing</b>														
3.2.7	<b>NEW</b> Applying for a grant to establish a community shelter at Brook Nursing Home—open 24/7	2	2	2	2	2	2	0	12	IC,LF EMCC	6	-5	1	13	M

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<p><b>Goal 3.</b> Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.</p> <p><b>Objective 3</b> Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.</p>															
3.3.1	Randolph County Joined the NFIP in 2007 and will continue to comply with and implement the NFIP requirements and to reduce the flood risks associated with the Flood Hazard Areas. <b>Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-3	5	19	H
3.3.2	Burning Bans issued by County Commission as needed and city of Moberly Cities will cooperate with burning bans when issued. <b>Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-1	7	21	H
3.3.3	Update and maintain the fire suppression emergency plan with the Rural Fire Depts within the district. <b>Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-1	7	21	H
3.3.4	Trash burning is prohibited by ordinance <b>Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-1	7	21	H
3.3.5	Enforcement of current building codes, IBC 2003 <b>2012 Ongoing</b>	2	2	2	2	2	2	2	14	IC,PD, LF, EMCC	8	-1	7	21	H
3.3.6	Pass an ordinance requiring that all contractors entering the city to help after an event are registered with the City Police Dept. and obtain a business license from the city to ensure that the citizens are protected from unscrupulous contractors. <b>Ongoing</b>	2	2	2	2	2	2	0	12	PD	2	-1	1	13	M
3.3.7	Review and update as needed the building codes and distribute with new building permits <b>Ongoing</b>	2	2	2	2	2	2	0	12	PD	2	-1	1	13	M



**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 1** Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.

Action Item # Priority**	Action Item	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Randolph County	Cairo	Clark	Clifton Hill	Higbee	Huntsville	Jacksonville	Moberly	Renick	Higbee R-VIII SD	Moberly SD	NE Rand R-IV SD	Westran R-IV SD	Renick R-V	MACC College	CCCCB College	Five Year Update Revision	
1.1.8	Severe weather cable interrupt is in place on local stations KWIX and KRES	HMC, Fire Dept.	Ongoing																				DELETE	

\*\*Priority from STAPLEE analysis    \*\*\* E—Existing   N---New    \*\*\*\* LF—Local Funding   F-S-G Federal / State Grants   N/A Not Applicable  
HMC—Hazard Mitigation Committee    EMD—Emergency Management Director    EOC---Emergency Operations Center    MODOT—Missouri Dept. of Trans

**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 2** Publicize appropriate mitigation measures for future potential natural hazards.

Action Item # Priority**	Action Item	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Randolph County	Cairo	Clark	Clifton Hill	Higbee	Huntsville	Jacksonville	Moberly	Renick	Higbee R-VIII SD	Moberly SD	NE Rand R-IV SD	Westran R-IV SD	Renick R-V	MACC College	CCCB College	Five Year Update Revision
1.2.1	Article in paper on tornado safety to be published in early March ahead of normal tornado season.	HMC, EMD, Health Dept	6 months -1 year				√																Also Public announcements on the radio
1.2.2	Article in paper on winter weather safety to be published in early November ahead of winter season.	HMC, EMD	6 months -1 year				√							√									Also Public announcements on the radio
1.2.3	Have educational brochures on what to do during extreme heat and drought conditions and distribute to nursing homes, childcare centers, schools.	HMC, EMD, Health Dept, local media,	Ongoing 6 months -1 year				√	√	√	√	√	√	√	√		√	√	√	√	√	√		Also Public announcements on the radio
1.2.4	Yearly articles to be published in local papers on earthquake safety.	HMC, EMD, media	6 months -1 year				√																Also Public announcements on the radio

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**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 3** Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.

Action Item # Priority**	Action Item	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Randolph County	Cairo	Clark	Clifton Hill	Higbee	Huntsville	Jacksonville	Moberly	Renick	Higbee R-VIII SD	Moberly SD	NE Rand R-IV SD	Westran R-IV SD	Renick R-V	MACC College	CCCCB College	Five Year Update Revision
1.3.1	Promote use of NOAA radios in businesses, private homes, and large gatherings, campgrounds. Have Chamber of Commerce promote NOAA radio use on for its membership and on its webpage.	HMC	Ongoing 6 months -1 year				√	√	√	√	√	√	√	√									Ongoing

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**Goal 2** Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.

**Objective 1** Build and support local partnerships to lessen the effects of natural hazards.

Action Item # Priority**	Action Item	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****															Five Year Update Revision
							Randolph County	Cairo	Clark	Clifton Hill	Higbee	Huntsville	Jacksonville	Moberly	Renick	Higbee R-VIII SD	Moberly SD	NE Rand R-IV SD	Westran R-IV SD	Renick R-V	
2.1.1	Remove trees from power line easements in addition to current trimming program	HMC, Utility Companies	Ongoing				√	√	√	√	√	√	√	√						√	Coop with AmerenUE on tree trimming
2.1.2	Insure that county school buses are outfitted with two-way communication	HMC, Schools, Health Dept.	Ongoing				√	√			√	√		√	√	√	√	√			Ongoing
2.1.3	Health Dept. is investigating obtaining portable generator(s) for shelters as funds become available.	HMC, EMD, law Health Dept.	1-2 years				√	√	√	√	√	√	√							√	Ongoing
2.1.4	Encourage nursing homes and daycares to purchase tone activated warning receivers	HMC, EMD, Fire Dept., Randolph County 911	Ongoing					√				√	√								Nursing homes have NOAA radios
2.1.5	Encourage schools to conduct programs on earthquake safety	HMC, EMD	Ongoing					√			√	√	√	√	√	√	√	√	√	√	Semi-annual
2.1.6	Maintain Mutual Aid Agreements with surrounding communities and update on a regular schedule.	EMD	Ongoing				√	√	√	√	√	√	√							√	Ongoing
2.1.7	Maintain and test portable generators available for shelters and investigate purchasing additional generators as funds become available.	HMC, Fire Dept.	1-2 years				√	√	√		√	√									Ongoing

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**Goal 2** Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.

**Objective 2** Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities.

Action Item # Priority**	Action Item	Coordinating Organization	Time Line	Structures ***	N--New R--Revision O--Ongoing	Funding****	Local Government Entities																Five Year Update Revision
							Randolph County	Cairo	Clark	Clifton Hill	Higbee	Huntsville	Jacksonville	Moberly	Renick	Higbee R-VIII SD	Moberly SD	NE Rand R-IV SD	Westran R-1SD	Renick R-V	MACC College	CCCB College	
2.2.1	Conduct and participate regularly scheduled (annually) training for weather spotters	HMC, EMD, Weather Bureau, Fire Depts.	Ongoing				√	√	√	√	√	√	√	√									Ongoing
2.2.2	Monthly testing of warning sirens throughout the county	HMC, EMD	Ongoing				√	√	√	√	√		√	√									Ongoing
2.2.3	Purchase additional two-way radios or cell phones for weather spotters as program grows and funds become available.	HMC, EMD, Fire Depts.	Ongoing				√	√	√	√	√		√	√									Ongoing
2.2.4	Table top exercise on earthquake safety conducted June 2007, schedule on regular basis.	HMC, EMD	Ongoing				√	√	√	√	√	√	√	√	√	√	√	√	√	√	√		Ongoing
2.2.5	Evaluate and upgrade as needed the current emergency response communication infrastructure	HMC, 911, Police, Fire, Sheriff, Ambulance	Ongoing				√																Ongoing
2.2.6	Participate in regularly scheduled Table-top exercises and mock emergency exercises, at least annually	Law enforcement, Emergency OP personnel, EMD, Fire Dept.	Ongoing				√	√	√		√	√	√	√							√		Approximately 5-6 per year
2.2.7	Investigate the possibility of obtaining a warning siren as funds become available	HMC	2- 5 years												√								Add two additional in the next two years, and have back-up batteries on all sirens

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**Goal 2** Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.

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2.2.8	Develop a plan in cooperation with the local fire dept. to sound weather alerts in the community until a warning siren can be obtained.	HMC, Fire Dept.	1-2 years									√	√										Ongoing
2.2.9	Form a committee to compile a list of special needs citizens ( on a voluntary basis)	HMC	6 months-1 year					√					√										EMS have list--voluntary
2.2.10	Develop a plan of action to include a chain of information & call lists in event of a disaster.	HMC	6 months-1 year										√										

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**Goal 2** Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.

**Objective 3** Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.

Action Item # Priority**	Action Item	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O--Ongoing	Funding****	Randolph County	Cairo	Clark	Clifton Hill	Higbee	Huntsville	Jacksonville	Moberly	Renick	Higbee R-VIII SD	Moberly SD	NE Rand R-IV SD	Westran R-ISD	Renick R-V	MACC College	CCCB College	Five Year Update Revision
2.3.1	Encourage Landowners to inspect and maintain their dams according to Dept. of Natural Resources standards.	HMC, MO Dept. of Natural Resources	Ongoing				√							√									Ongoing
2.3.2	The Thomas Hill dam has its own Emergency Operations plan and Inspection plan, updated every two years.	HMC, Thomas Hill, DNR	Ongoing				√																Ongoing
2.3.3	The Holiday Acres dam has its own Emergency Operations plan and Inspection plan, updated every three years.	HMC, Holiday Acres, DNR	Ongoing				√																Ongoing
2.3.4	Maintain & clean blocked culverts on a regular schedule.	HMC, city government	Ongoing					√	√	√	√	√	√	√	√								Ongoing
2.3.5	City can issue watering bans as needed	HMC, city government	Ongoing											√									Ordinance in place
2.3.6	The three dams within the city limits are inspected & maintained to DNR standards.	HMC, Water Dept.	Ongoing											√									Ongoing
2.3.7	Dam at Sugar Creek Lake is inspected by DNR in addition to its inspection of the water plant.	HMC, Water Dept.	Ongoing											√									Ongoing

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2.3.8	City has installed a large capacity water tower ( 3 years ago) to insure sufficient water supply for citizens.	HMC	Ongoing					√															

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HMC—Hazard Mitigation Committee

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Action Item # Priority**	Action Item	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Five Year Update Revision															
							Randolph County	Cairo	Clark	Clifton Hill	Higbee	Huntsville	Jacksonville	Moberly	Renick	Higbee R-VIII SD	Moberly SD	NE Rand R-IV SD	Westran R-ISD	Renick R-V	MACC College	CCCB College
3.1.1	Update and maintain list of buildings that are designated as shelters, distribute list. Update at least annually.	HMC, EMD, law enforcement	Ongoing				√	√	√	√	√	√	√	√					√	√	“after the event” shelters	
3.1.2	Maintain snow plowing and removal equipment and upgrade as needed and funds become available.	Highway Dept. HMC, MODOT	Ongoing				√	√	√		√	√	√							√	Ongoing	
3.1.3	Maintain an adequate supply of salt for county roads in icy weather.	Road Dept, HMC	Ongoing				√	√		√	√		√							√	Ongoing	
3.1.4	Update and upgrade the county road and bridge policy	Road Dept, HMC	Ongoing				√														Ongoing	
3.1.5	Emergency snow routes are designated by county ordinance. Snow removal plan in place, school bus routes have priority.	Road Dept, HMC	Ongoing				√				√		√								Ongoing	
3.1.6	Back-up generators available for communications at Sheriff Dept and PSAP (911)	HMC, EMD, Law Enforcement	Ongoing				√														Ongoing	
3.1.7	Ensure that “Road Impassable” during high water signs are posted	HMC, Highway and Bridge Dept.	Ongoing				√						√								Ongoing	

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Action Item # Priority**	Action Item	Coordinating Organization	Time Line	Structures ***	N--New R--Revision O--Ongoing	Funding****	Randolph County	Cairo	Clark	Clifton Hill	Higbee	Huntsville	Jacksonville	Moberly	Renick	Higbee R-VIII SD	Moberly SD	NE Rand R-IV SD	Westran R-IV SD	Renick R-V	MACC College	CCCCB College	Five Year Update Revision
3.1.8	Contract for snow removal.	HMC, City	Ongoing												√								
3.1.9	Build a new Fire Station, EOC, and all hazard Shelter. Build as funds become available.	HMC, Fire Dept.	2- 5 years					√				√											<b>New Fire station—5 years EOC at Fire Dept and old Municipal Court room</b>
3.1.10	Maintain Road and Bridge Equipment	HMC, Highway and Bridge Dept.	Ongoing				√						√										<b>Ongoing</b>
3.1.11	Maintain a supply of extra culverts and materials for repairs for emergency use.	HMC, Highway and Bridge Dept.	Ongoing				√		√		√	√		√									<b>Ongoing</b>
3.1.12	Maintain, map and update a list of low-lying roads and bridges that are in peril. Sheriff Dept. checks all low lying roads for problems.	HMC, Highway and Bridge Dept., Sheriff Dept, County 911	Ongoing				√							√									<b>Ongoing</b>
3.1.13	Conduct a study on all "at peril" roads and bridges. Make a plan to upgrade the "at peril" roads and bridges as funds become available.	HMC, Highway and Bridge Dept.	1- 5 years				√							√									<b>Ongoing</b>
3.1.14	Work with FEMA and Army Corp of Engineers to update floodplain map as needed.	HMC, Highway and Bridge Dept.,	1- 5 years				√							√									<b>Ongoing</b>

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Action Item # Priority**	Action Item	Coordinating Organization	Time Line	Structures ***	N--New R--Revision O--Ongoing	Funding****	Randolph County	Cairo	Clark	Clifton Hill	Higbee	Huntsville	Jacksonville	Moberly	Renick	Higbee R-VIII SD	Moberly SD	NE Rand R-IV SD	Westran R-ISD	Renick R-V	MACC College	CCCB College	Five Year Update Revision
3.1.15	Partnership with NECAC, Health Dept., and churches, and local service clubs for distribution of fans as needed.	HMC, NECAC, Randolph County Health Dept.	6 months-1 year				√					√		√									<b>Ongoing Churches also as needed</b>
3.1.16	Establish cooling center at shelter (s)	HMC, EMD	Ongoing				√	√	√	√	√	√	√	√	√								<b>Ongoing</b>
3.1.17	Establish EOC (Emergency Operations Center) at the Fire Department	HMC, City, Fire Dept.	6 months-1 year						√						√								<b>New Fire station—5 years EOC at Fire Dept and old Municipal Court room</b>
3.1.18	Maintain transportation infrastructure	Highway Dept. MODOT	Ongoing				√	√	√		√	√	√	√									<b>Ongoing</b>
3.1.19	Update Emergency Operating Plan on a regular schedule.	EMD, Fire Dept., HMC	Ongoing				√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√	<b>Ongoing</b>
3.1.20	Review and update as needed the building codes and distribute with new building permits	HMC	Ongoing					√															<b>Ongoing</b>
3.1.21	Work with state and federal lawmakers to obtain an additional NOAA broadcast tower or to increase the signal output from surrounding towers to ensure that all areas of Randolph County are covered	HMC, EMD, state and federal lawmakers	1- 5 years				√							√									<b>DELETE</b>

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

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3.1.29	Water and waste-water plants have back-up generators in place.	HMC, city government	Ongoing											√									Ongoing
3.1.30	Generator is available to pump fuel for city vehicle during power outages.	HMC, city government	Ongoing											√									Ongoing
3.1.31	Investigate communication methods for announcing school closings due to natural hazards	HMC, Media	6 months													√	√	√	√	√	√	√	TextCaster in Place,also, radio, TV, and webpages
3.1.32	Investigate possibility of placing utilities underground	AmerenUE, HMC	1-2 years																			√	
3.1.33	Provide NOAA radios for use in residence halls and Ferneau Center as needed. Supply NOAA radios for main MACC campus as well as satellite campuses.	HMC	Ongoing																		√	√	Delete
3.1.34	NEW																√						If and when school district has new construction planned, a tornado safe room will be considered.
3.1.35	NEW																√						Schools have designated off-campus rally locations for all disasters

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 2** Encourage private involvement in mitigation activities.

Action Item # Priority**	Action Item	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Randolph County	Cairo	Clark	Clifton Hill	Higbee	Huntsville	Jacksonville	Moberly	Renick	Higbee R-VIII SD	Moberly SD	NE Rand R-IV SD	Westran R-ISD	Renick R-V	MACC College	CCCB College	Five Year Update Revision
3.2.1	Encourage Drought resistant farming practices	HMC, USDA, media, University Outreach	Ongoing				√																Ongoing
3.2.2	Set up a schedule to publish timely articles in the local papers on safety during natural hazards throughout the year	HMC, EMD, Health Dept.	6 months -1 year				√																Ongoing
3.2.3	Coordinated with 4-H clubs to distribute safety information at the county fair.	EMD, HMC, 4-H clubs	6 months -1 year				√																
3.2.4	Make a master list of needs for emergency management for the county (such as radios, etc.), post on Randolph County webpage and encourage local businesses to donate items or funds to obtain.	HMC, EMD	6 months -1 year				√																Delete
3.2.5	Investigate passing an ordinance to require any new trailer parks to provide an on-site storm shelter.	HMC, EMD, Fire Dept.	1 year											√									Incorporated into new comprehensive e plan for city
3.2.6	Distribute Design Construction Awareness Brochures with Building permits, "Builders Kit"	HMC, city government	Ongoing											√									Ongoing
3.2.7	<b>NEW</b>										√												Applying for a grant to establish a community shelter at Brook Nursing Home—open 24/7

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 3** Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

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3.3.1	Randolph County Joined the NFIP in 2007 and will continue to comply with and implement the NFIP requirements and to reduce the flood risks associated with the Flood Hazard Areas	HMC, Highway and Bridge Dept.	Ongoing				√					√		√								√		Ongoing
3.3.2	Burning Bans issued by County Commission as needed and city of Moberly Cities will cooperate with burning bans when issued	HMC, County commission	Ongoing				√	√	√	√	√	√	√	√	√									Ongoing
3.3.3	Update and maintain the fire suppression emergency plan with the Rural Fire Depts within the district.	HMC, LEPC, Rural Fire Depts	6 months-1 year				√	√																Ongoing
3.3.4	NRCS (Natural Resources Conservation Service) must have plan on file before burns can be started.	HMC, NRCS	Ongoing				√	√																Ongoing
3.3.4	Trash burning is prohibited by ordinance	HMC, EMD, Fire Dept.,	Ongoing						√					√										Ongoing
3.3.5	Enforcement of current building codes, IBC 2003	HMC, city government	Ongoing											√										2012 Ongoing

\*\*Priority from STAPLEE analysis    \*\*\* E--Existing    N---New    \*\*\*\* LF--Local Funding    F-S-G Federal / State Grants    N/A Not Applicable  
HMC--Hazard Mitigation Committee    EMD--Emergency Management Director    EOC---Emergency Operations Center    MODOT--Missouri Dept. of Trans

**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 3** Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

Action Item # Priority**	Action Item	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O--Ongoing	Funding****	Randolph County	Cairo	Clark	Clifton Hill	Higbee	Huntsville	Jacksonville	Moberly	Renick	Higbee R-VIII SD	Moberly SD	NE Rand R-IV SD	Westran R-ISD	Renick R-V	MACC College	CCCB College	Five Year Update Revision
3.3.6	Pass an ordinance requiring that all contractors entering the city to help after an event are registered with the City Police Dept. and obtain a business license from the city to ensure that the citizens are protected from unscrupulous contractors.	HMC, EMD, police dept.	6 months											√									Ongoing
3.3.7	Review and update as needed the building codes and distribute with new building permits	HMC	Ongoing					√															Ongoing

\*\*Priority from STAPLEE analysis      \*\*\* E—Existing   N---New      \*\*\*\* LF—Local Funding   F-S-G Federal / State Grants   N/A Not Applicable  
HMC—Hazard Mitigation Committee      EMD—Emergency Management Director      EOC---Emergency Operations Center      MODOT—Missouri Dept. of Trans