4 MITIGATION STRATEGY

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44 CFR Requirement §201.6(c)(3): The plan shall include a mitigation strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.

This section presents the mitigation strategy updated by the Mitigation Planning Committee (MPC) based on the [updated] risk assessment. The mitigation strategy was developed through a collaborative group process. The process included review of [updated] general goal statements to guide the jurisdictions in lessening disaster impacts as well as specific mitigation actions to directly reduce vulnerability to hazards and losses. The following definitions are taken from FEMA's *Local Hazard Mitigation Review Guide (October 1, 2012)*.

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

4.1 Goals

44 CFR Requirement §201.6(c)(3)(i): [The hazard mitigation strategy shall include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

This planning effort is an update to Randolph County's existing hazard mitigation plan approved by FEMA in April 2015. Therefore, the goals from the 2015 Randolph County Hazard Mitigation Plan were reviewed to see if they were still valid, feasible, practical, and applicable to the defined hazard impacts. The MPC conducted a discussion session during their second meeting to review and update the plan goals. To ensure that the goals developed for this update were comprehensive and supported State goals, the 2018 State Hazard Mitigation Plan goals were reviewed. The MPC also reviewed the goals from current surrounding county plans.

<u>Goal 1</u> 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.

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

<u>Goal 3</u> 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.

It was determined the broadly stated goals were still valid for the 2019 update.

4.2 Identification and Analysis of Mitigation Actions

44 CFR Requirement §201.6(c)(3)(ii): The mitigation strategy shall include a section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.

During the second MPC meeting, the results of the risk assessment update were provided to the MPC members for review and the key issues were identified for specific hazards. Changes in risk since adoption of the previously approved plan were discussed. Actions from the previous plan included completed actions, on-going actions, and actions upon which progress had not been made. The MPC discussed SEMA's identified funding priorities and the types of mitigation actions generally recognized by FEMA.

The MPC included problem statements in the plan update at the end of each hazard profile. The problem statements summarize the risk to the planning area presented by each hazard and include possible methods to reduce that risk. Use of the problem statements allowed the MPC to recognize new and innovative strategies for mitigate risks in the planning area.

The focus of Meeting #3 was update of the mitigation strategy. For a comprehensive range of mitigation actions to consider, the MPC reviewed the following information during Meeting #3:

- A list of actions proposed in the previous mitigation plan, the current State Plan, and approved plans in surrounding counties,
- Key issues from the risk assessments, including the problem statements concluding each hazard profile and vulnerability analysis,
- State priorities established for HMA grants, and
- Public input during meetings, responses to data collection questionnaires, and other efforts to involve the public in the plan development process.

For Meeting #3, individual jurisdictions, including school and special districts, developed final mitigation strategy for submission to the MPC. They were encouraged to review the details of the risk assessment vulnerability analysis specific to their jurisdiction. They were also provided a link to the FEMA's publication, *Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards (January 2013).* This document was developed by FEMA as a resource for identification of a range of potential mitigation actions for reducing risk to natural hazards and disasters.

The MPC reviewed the actions from the previously approved plan for progress made since the plan had been adopted, using worksheets included in Appendix A of this plan. Prior to Meeting

#3, the list of actions for each jurisdiction was emailed to that jurisdiction's MPC representative along with the worksheets. Each jurisdiction was instructed to provide information regarding the "Action Status" with one of the following status choices:

- Completed, with a description of the progress;
- Ongoing, with a description of the progress made to date; or
- Not Yet Started, with a discussion of the reasons for lack of progress.

Additionally, the future inclusion of each mitigation action in the plan update was identified as either keep, delete, or modify. Based on the status updates, there were 75 completed actions, 0 continuing actions (either ongoing or modified), and 202 deleted actions.

0 provides a summary of the action statuses for each jurisdiction:

Jurisdiction	Completed Actions	Deleted Actions	Continuing Actions
Randolph County	28	24	0
City of Cairo	5	27	0
City of Clark	1	20	0
City of Higbee	4	21	0
City of Huntsville	1	35	0
City of Moberly	7	44	0
City of Renick	1	19	0
Higbee R-VIII SD	7	3	0
Moberly SD	7	3	0
Westran R-I SD	7	3	0
Renick R-V SD	7	3	0

Table 4.2 provides a summary of the completed and deleted actions from the previous plan.

Table 4.2. Summary of Completed and Deleted Actions from the Previous Plan

Completed Actions	Completion Details (date, amount, funding source)
Randolph County	
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	Completed
Randolph County 911 direct notification system for sever weather alerts to schools, Nursing homes, hospitals, and Fire Departments	Completed
Speaker is available to conduct programs on severe weather safety.	Completed
Promote NOAA radios in businesses, private homes, and large gatherings, campgrounds. COC promote NOAA radio to its members and webpage	Completed
Remove trees from power line easements in addition to current trimming program	Completed
Insure that county school business are outfitted with two way communication	Completed
Health Dept. is investigating obtaining portable generators for shelters as funds become available.	Completed
Maintain Mutual Aid Agreement with surrounding communities and update on a regular schedule	Completed
Maintain and test portable generators available for shelters and investigate purchasing additional generators as funds become available.	Completed
Conduct and participate regularly scheduled (annually) training for weather spotters	Completed
Monthly testing of warning sirens throughout the county	Completed
Purchase additional two-way radios and cell phones for weather spotters as program grows and funds become available.	Completed
Evaluate and upgrade as needed the current emergency response communication infrastructure	Completed
Participate in regularly scheduled Table-top exercises and mock emergency exercise, at least annually.	Completed
Update/ Maintain list of building that are designated as shelters, distribute list. Update annually	Completed
Maintain snow plowing removal equipment and upgrade as needed and funds become available.	Completed
Maintain an adequate supply of salt for county roads in icy weather	Completed
Back-up generators available for communications at Sheriff Dept. and PSAP (911)	Completed

Ensure that "Road Impassable" during high water signs are posted	Completed
Maintain Roads and Bridge Equipment	Completed
Maintain a supply of extra culverts and materials for repairs for emergency use.	Completed
Maintain, map and update a list of low-lying roads and bridges list that are in peril. Sheriff Dept. Checks all low lying roads for problems	Completed
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.	Completed
Work with FEMA and Army Corps of Engineers to update flood plain map.	Completed
Water meters are being replaced with electronic read devices to eliminate meter breakages and possible water main breakage or damage.	Completed
Burning Bans issued by County Commissions as needed and city of Moberly. Cities will cooperate with burning bas when	Completed
Update and maintain the fire suppression emergency plan within the Rural Fire Depts. within the district	Completed
Village of Cairo	
Informational brochures available to public at health Dept., Fire Depts., and courthouse	Completed
Maintain Mutual Aid Agreement with surrounding communities and update on a regular schedule	Completed
City has installed a large capacity water tower (3 years ago) to insure sufficient water supply for citizens.	Completed
Contract for snow removal	Completed
Build a new fire station, EOC, and all hazard Shelter. Build as funds become available	Completed
City of Clark	
Trash burning is prohibited by ordinance	Completed
City of Higbee	
Maintain Mutual Aid Agreement with surrounding communities and update on a regular schedule	Completed
Maintain & clean blocked culverts on a regular schedule.	Completed
Maintain a supply of extra culverts and materials for repairs for emergency use.	Completed
Maintain transportation infrastructure	Completed
City of Huntsville	
Build a new fire station, EOC, and all hazard Shelter. Build as funds become available	Completed
City of Moberly	
Informational brochures available to public at health Dept., Fire Depts., and courthouse	Completed
Promote NOAA radios in businesses, private homes, and large gatherings, campgrounds. COC promote NOAA radio to its members and webpage	Completed
Maintain Mutual Aid Agreement with surrounding communities and update on a regular schedule	Completed

Update and maintain list of building that are designated as shelters, distribute list. Update annually	Completed
Work with FEMA and Army Corps of Engineers to update flood plain map as needed.	Completed
Maintain transportation infrastructure	Completed
Enforcement of current building codes, IBC 2012	Completed
Village of Renick	
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	Completed
Higbee R-VIII School District	
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	Completed
Speaker is available to conduct programs on severe weather safety.	Completed
Informational brochures available to public at health Dept., Fire Depts., and courthouse	Completed
Insure that county school business are outfitted with two way communication	Completed
Encourage schools to conduct programs on earthquake safety	Completed
Update Emergency Operating Plan on a regular schedule	Completed
Investigate communication methods for announcing school closings due to natural hazards.	Completed
Moberly School District	
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	Completed
Speaker is available to conduct programs on severe weather safety.	Completed
Informational brochures available to public at health Dept., Fire Depts., and courthouse	Completed
Insure that county school business are outfitted with two way communication	Completed
Encourage schools to conduct programs on earthquake safety	Completed
Update Emergency Operating Plan on a regular schedule	Completed
Investigate communication methods for announcing school closings due to natural hazards.	Completed
Renick R-V School District	
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	Completed
Speaker is available to conduct programs on severe weather safety.	Completed
Informational brochures available to public at health Dept., Fire Depts., and courthouse	Completed
Insure that county school business are outfitted with two way communication	Completed
Encourage schools to conduct programs on earthquake safety	Completed
Update Emergency Operating Plan on a regular schedule	Completed
Investigate communication methods for announcing school closings due to natural hazards.	Completed
Westran R-I School District	
Have educational brochures on what to do during a tornado or severe storm and natural disasters available at the EOC's Fire	Completed

Depts. Courthouse and include on Websites	
Speaker is available to conduct programs on severe weather safety.	Completed
Informational brochures available to public at health Dept., Fire Depts., and courthouse	Completed
Insure that county school business are outfitted with two way communication	Completed
Encourage schools to conduct programs on earthquake safety	Completed
Update Emergency Operating Plan on a regular schedule	Completed
Investigate communication methods for announcing school closings due to natural hazards.	Completed
Deleted Actions	Reason for Deletion
Randolph County	
Develop and laminate brochures on tornado actions plan and post at all campgrounds in county	This activity was determined to be an everyday/ongoing activity
Insert tornado safety and shelter information in the new water hook up packets for all new citizens of the county	This activity was determined to be an everyday/ongoing activity
Inform local small communities and large groups that the county Health Dept. has brochures and poster to distribute.	This activity was determined to be an everyday/ongoing activity
Informational brochures available to public at health Dept., Fire Depts., and courthouse	This activity was determined to be an everyday/ongoing activity
Article in paper on tornado safety to be published in early march ahead of normal tornado season	This activity was determined to be an everyday/ongoing activity
Article in paper on winter weather safety to be published in early November ahead of winter season.	This activity was determined to be an everyday/ongoing activity
Have educational brochures on what to do in extreme heat and drought conditions and distribute to nursing homes, Childcare centers, and schools	This activity was determined to be an everyday/ongoing activity
Yearly articles to be published in local papers on earthquake safety.	This activity was determined to be an everyday/ongoing activity
Table top exercise on earthquake safety conducted June 2007, schedule on regular basis.	This activity was determined to be an everyday/ongoing activity
Encourage landowners to inspect and maintain their dams according to DNR standards	This activity was determined to be an everyday/ongoing activity
Thomas Hill dam has its own Emergency Operations plan and Inspection plan, updated every two years	This activity was determined to be an everyday/ongoing activity
Holiday Acres dam has its own Emergency operations plan and inspection plan, updated every three years	This activity was determined to be an everyday/ongoing activity
Update and upgrade the county road and bridge policy	This activity was determined to be an everyday/ongoing activity
Emergency snow routes are designated by county ordinance. Snow removal plan in place, school bus routes have priority	This activity was determined to be an everyday/ongoing activity
Partnership with NECAC, Healthy Dept., and churches, and local service clubs for distribution of fans as needed	This activity was determined to be an everyday/ongoing activity
Establish cooling center at shelters	This activity was determined to be an everyday/ongoing activity
Maintain transportation infrastructure	This activity was determined to be an everyday/ongoing activity
Update Emergency Operating Plan on a regular schedule	This activity was determined to be an everyday/ongoing activity
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.	This activity was determined to be an everyday/ongoing activity

Encourage Drought resistant farming practices	This activity was determined to be an everyday/ongoing activity
Set a schedule to publish timely articles in local papers on safety during natural hazards throughout the year	This activity was determined to be an everyday/ongoing activity
Coordinated with 4-H clubs to distribute safety information at the county fair.	This activity was determined to be an everyday/ongoing activity
Randolph County Joined the NFIP in 2007 and will continue to comply with and implement the NFIP requirements and to reduce the flood risk associated with the flood hazards areas	This activity was determined to be an everyday/ongoing activity
NRCS must have plan on file before burns can be started	This activity was determined to be an everyday/ongoing activity
Village of Cairo	
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	This activity was determined to be an everyday/ongoing activity
Insert tornado safety and shelter information in the new water hook up packets for all new citizens of the county	This activity was determined to be an everyday/ongoing activity
Have educational brochures on what to do in extreme heat and drought conditions and distribute to nursing homes, Childcare centers, and schools	This activity was determined to be an everyday/ongoing activity
Remove trees from power line easements in addition to current trimming program	This activity was determined to be an everyday/ongoing activity
Insure that county school business are outfitted with two way communication	This activity was determined to be an
Health Dept. is investigating obtaining portable generators for	everyday/ongoing activity This activity was determined to be an
shelters as funds become available.	everyday/ongoing activity
Encourage nursing homes and daycares to purchase tone activated warning receivers	This activity was determined to be an everyday/ongoing activity
Encourage schools to conduct programs on earthquake safety	This activity was determined to be an everyday/ongoing activity
Maintain and test portable generators available for shelters and investigate purchasing additional generators as funds become available.	This activity was determined to be an everyday/ongoing activity
Conduct and participate regularly scheduled (annually) training for weather spotters	This activity was determined to be an everyday/ongoing activity
Monthly testing of warning sirens throughout the county	This activity was determined to be an everyday/ongoing activity
Purchase additional two-way radios and cell phones for weather	This activity was determined to be an
spotters as program grows and funds become available.	everyday/ongoing activity
Table top exercise on earthquake safety conducted June 2007, schedule on regular basis	This activity was determined to be an everyday/ongoing activity
Participate in regularly scheduled Table-top exercises and mock	This activity was determined to be an
emergency exercise, at least annually.	everyday/ongoing activity
Form a committee to compile a list of special needs citizens (on a voluntary basis)	This activity was determined to be an everyday/ongoing activity
Maintain & clean blocked culverts on a regular schedule.	This activity was determined to be an
	everyday/ongoing activity
Update and maintain list of building that are designated as shelters, distribute list. Update annually	This activity was determined to be an everyday/ongoing activity
Maintain snow plowing removal equipment and upgrade as	This activity was determined to be an
needed and funds become available.	everyday/ongoing activity
Maintain an adequate supply of salt for county roads in icy weather	This activity was determined to be an everyday/ongoing activity
Establish cooling center at shelters	This activity was determined to be an everyday/ongoing activity
Maintain transportation infrastructure	This activity was determined to be an everyday/ongoing activity
Update Emergency Operating Plan on a regular schedule	This activity was determined to be an everyday/ongoing activity
Review and update as needed the building codes and distribute with new building permits.	This activity was determined to be an everyday/ongoing activity
Burning Bans issued by County Commissions as needed and	This activity was determined to be an

city of Moberly. Cities will cooperate with burning bas when issued.	everyday/ongoing activity
Update and maintain the fire suppression emergency plan within the Rural Fire Depts. within the district	This activity was determined to be an everyday/ongoing activity
NRCS must have plan on file before burns can be started	This activity was determined to be an
	everyday/ongoing activity
Review and update as needed the building codes and distribute with new building permits.	This activity was determined to be an everyday/ongoing activity
City of Clark	
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	This activity was determined to be an everyday/ongoing activity
Have educational brochures on what to do in extreme heat and drought conditions and distribute to nursing homes, Childcare centers, and schools	This activity was determined to be an everyday/ongoing activity
Remove trees from power line easements in addition to current trimming program	This activity was determined to be an everyday/ongoing activity
Health Dept. is investigating obtaining portable generators for shelters as funds become available.	This activity was determined to be an everyday/ongoing activity
Conduct and participate regularly scheduled (annually) training for weather spotters	This activity was determined to be an everyday/ongoing activity
Monthly testing of warning sirens throughout the county	This activity was determined to be an everyday/ongoing activity
Purchase additional two-way radios and cell phones for weather spotters as program grows and funds become available.	This activity was determined to be an everyday/ongoing activity
Table top exercise on earthquake safety conducted June 2007, schedule on regular basis	This activity was determined to be an everyday/ongoing activity
Participate in regularly scheduled Table-top exercises and mock emergency exercise, at least annually.	This activity was determined to be an everyday/ongoing activity
Form a committee to compile a list of special needs citizens (on a voluntary basis)	This activity was determined to be an everyday/ongoing activity
Maintain & clean blocked culverts on a regular schedule.	This activity was determined to be an everyday/ongoing activity
Update and maintain list of building that are designated as shelters, distribute list. Update annually	This activity was determined to be an everyday/ongoing activity
Maintain snow plowing removal equipment and upgrade as needed and funds become available.	This activity was determined to be an everyday/ongoing activity
Maintain a supply of extra culverts and materials for repairs for emergency use.	This activity was determined to be an everyday/ongoing activity
Establish cooling center at shelters	This activity was determined to be an everyday/ongoing activity
Establish EOC (Emergency Operations Center) at the Fire Department	This activity was determined to be an everyday/ongoing activity
Maintain transportation infrastructure	This activity was determined to be an everyday/ongoing activity
Update Emergency Operating Plan on a regular schedule	This activity was determined to be an everyday/ongoing activity
Review and update as needed the building codes and distribute with new building permits.	This activity was determined to be an everyday/ongoing activity
Burning Bans issued by County Commissions as needed and city of Moberly. Cities will cooperate with burning bas when issued.	This activity was determined to be an everyday/ongoing activity
City of Higbee	
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	This activity was determined to be an everyday/ongoing activity

Informational brochures available to public at health Dept., Fire	This activity was determined to be an
Depts., and courthouse	everyday/ongoing activity
Have educational brochures on what to do in extreme heat and drought conditions and distribute to nursing homes, Childcare centers, and schools	This activity was determined to be an everyday/ongoing activity
Promote NOAA radios in businesses, private homes, and large	This activity was determined to be an
gatherings, campgrounds. COC promote NOAA radio to its members and webpage	everyday/ongoing activity
Remove trees from power line easements in addition to current	This activity was determined to be an
trimming program	everyday/ongoing activity
Insure that county school business are outfitted with two way	This activity was determined to be an
communication	everyday/ongoing activity
Health Dept. is investigating obtaining portable generators for	This activity was determined to be an
shelters as funds become available.	everyday/ongoing activity
Maintain and test portable generators available for shelters and investigate purchasing additional generators as funds become available.	This activity was determined to be an everyday/ongoing activity
Conduct and participate regularly scheduled (annually) training	This activity was determined to be an
for weather spotters	everyday/ongoing activity
·	This activity was determined to be an
Monthly testing of warning sirens throughout the county	everyday/ongoing activity
Purchase additional two-way radios and cell phones for weather	This activity was determined to be an
spotters as program grows and funds become available.	everyday/ongoing activity
Table top exercise on earthquake safety conducted June 2007,	This activity was determined to be an
schedule on regular basis	everyday/ongoing activity
Participate in regularly scheduled Table-top exercises and mock	This activity was determined to be an
emergency exercise, at least annually.	everyday/ongoing activity
Maintain & clean blocked culverts on a regular schedule.	This activity was determined to be an
-	everyday/ongoing activity
Update and maintain list of building that are designated as	This activity was determined to be an
shelters, distribute list. Update annually	everyday/ongoing activity
Maintain snow plowing removal equipment and upgrade as	This activity was determined to be an
needed and funds become available.	everyday/ongoing activity
Establish cooling center at shelters	This activity was determined to be an everyday/ongoing activity
Establish EOC (Emergency Operations Center) at the Fire	This activity was determined to be an
Department	everyday/ongoing activity
Maintain transportation infrastructure	This activity was determined to be an everyday/ongoing activity
Update Emergency Operating Plan on a regular schedule	This activity was determined to be an everyday/ongoing activity
Burning Bans issued by County Commissions as needed and	This activity was determined to be an
city of Moberly. Cities will cooperate with burning bas when issued.	everyday/ongoing activity
City of Huntsville	
Have educational brochures on what to do during a tornado or	
severe storm and natural disasters available at the EOC's Fire	This activity was determined to be an
Depts. Courthouse and include on Websites	everyday/ongoing activity
Randolph County 911 direct notification system for sever	T I: (1)
weather alerts to schools, Nursing homes, hospitals, and Fire	This activity was determined to be an
Departments	everyday/ongoing activity
Insert tornado safety and shelter information in the new water	This activity was determined to be an
hook up packets for all new citizens of the county	everyday/ongoing activity
Informational brochures available to public at health Dept., Fire Depts., and courthouse	This activity was determined to be an everyday/ongoing activity
Have educational brochures on what to do in extreme heat and	This activity was determined to be an
drought conditions and distribute to nursing homes, Childcare centers, and schools	everyday/ongoing activity
Promote NOAA radios in businesses, private homes, and large	
gatherings, campgrounds. COC promote NOAA radio to its	This activity was determined to be an everyday/ongoing activity
members and webbade	
members and webpage Remove trees from power line easements in addition to current	This activity was determined to be an

Insure that county school business are outfitted with two way	This activity was determined to be an
communication	everyday/ongoing activity
Health Dept. is investigating obtaining portable generators for	This activity was determined to be an
shelters as funds become available.	everyday/ongoing activity
Encourage nursing homes and daycares to purchase tone	This activity was determined to be an
activated warning receivers	everyday/ongoing activity This activity was determined to be an
Encourage schools to conduct programs on earthquake safety	everyday/ongoing activity
Maintain Mutual Aid Agreement with surrounding communities	This activity was determined to be an
and update on a regular schedule	everyday/ongoing activity
Maintain and test portable generators available for shelters and investigate purchasing additional generators as funds become available.	This activity was determined to be an everyday/ongoing activity
Conduct and participate regularly scheduled (annually) training for weather spotters	This activity was determined to be an everyday/ongoing activity
	This activity was determined to be an
Monthly testing of warning sirens throughout the county	everyday/ongoing activity
Purchase additional two-way radios and cell phones for weather spotters as program grows and funds become available.	This activity was determined to be an everyday/ongoing activity
Table top exercise on earthquake safety conducted June 2007,	This activity was determined to be an
schedule on regular basis	everyday/ongoing activity
Participate in regularly scheduled Table-top exercises and mock	This activity was determined to be an
emergency exercise, at least annually.	everyday/ongoing activity
Develop a plan in cooperation with the local fire dept. to sound	This activity was determined to be an
weather alerts in the community until a warning siren can be obtained.	everyday/ongoing activity
oblamed.	This activity was determined to be an
Maintain & clean blocked culverts on a regular schedule.	everyday/ongoing activity
Develop a plan in cooperation with the local fire dept. to sound weather alerts in the community until a warning siren can be obtained.	This activity was determined to be an everyday/ongoing activity
Update and maintain list of building that are designated as	This activity was determined to be an
shelters, distribute list. Update annually	everyday/ongoing activity
Maintain snow plowing removal equipment and upgrade as	This activity was determined to be an
needed and funds become available.	everyday/ongoing activity
Maintain an adequate supply of salt for county roads in icy weather	This activity was determined to be an everyday/ongoing activity
Emergency snow routes are designated by county ordinance.	This activity was determined to be an
Snow removal plan in place, school bus routes have priority	everyday/ongoing activity
Build a new fire station, EOC, and all hazard Shelter. Build as	This activity was determined to be an
funds become available Maintain a supply of extra culverts and materials for repairs for	everyday/ongoing activity This activity was determined to be an
emergency use.	everyday/ongoing activity
Partnership with NECAC, Healthy Dept., and churches, and local	This activity was determined to be an
service clubs for distribution of fans as needed	everyday/ongoing activity
Establish cooling center at shelters	This activity was determined to be an
	everyday/ongoing activity
Maintain transportation infrastructure	This activity was determined to be an
	everyday/ongoing activity This activity was determined to be an
Update Emergency Operating Plan on a regular schedule	everyday/ongoing activity
Utilities are being placed underground in the business districts,	This activity was determined to be an
new subdivisions, and new industrial parks.	everyday/ongoing activity
Applying for a grant to establish a community shelter at Brook	This activity was determined to be an
Nursing Home- open 24/7	everyday/ongoing activity
Randolph County Joined the NFIP in 2007 and will continue to	This activity was determined to be an
comply with and implement the NFIP requirements and to	everyday/ongoing activity
reduce the flood risk associated with the flood hazards areas Burning Bans issued by County Commissions as needed and	
city of Moberly. Cities will cooperate with burning bas when	This activity was determined to be an
issued.	everyday/ongoing activity
City of Moberly	
	This activity was determined to be an
Have educational brochures on what to do during a tornado or	

Depts. Courthouse and include on Websites	
Speaker is available to conduct programs on severe weather safety.	This activity was determined to be an everyday/ongoing activity
Insert tornado safety and shelter information in the new water hook up packets for all new citizens of the county	This activity was determined to be an everyday/ongoing activity
Article in paper on winter weather safety to be published in early November ahead of winter season.	This activity was determined to be an everyday/ongoing activity
Have educational brochures on what to do in extreme heat and drought conditions and distribute to nursing homes, Childcare centers, and schools	This activity was determined to be an everyday/ongoing activity
Remove trees from power line easements in addition to current trimming program	This activity was determined to be an everyday/ongoing activity
Insure that county school business are outfitted with two way communication	This activity was determined to be an everyday/ongoing activity
Health Dept. is investigating obtaining portable generators for shelters as funds become available.	This activity was determined to be an everyday/ongoing activity
Encourage nursing homes and daycares to purchase tone activated warning receivers	This activity was determined to be an everyday/ongoing activity
Encourage schools to conduct programs on earthquake safety	This activity was determined to be an everyday/ongoing activity
Conduct and participate regularly scheduled (annually) training for weather spotters	This activity was determined to be an everyday/ongoing activity
Monthly testing of warning sirens throughout the county	This activity was determined to be an everyday/ongoing activity
Purchase additional two-way radios and cell phones for weather spotters as program grows and funds become available.	This activity was determined to be an everyday/ongoing activity
Table top exercise on earthquake safety conducted June 2007, schedule on regular basis	This activity was determined to be an everyday/ongoing activity
Participate in regularly scheduled Table-top exercises and mock emergency exercise, at least annually.	This activity was determined to be an everyday/ongoing activity
Encourage landowners to inspect and maintain their dams according to DNR standards	This activity was determined to be an everyday/ongoing activity
Maintain & clean blocked culverts on a regular schedule.	This activity was determined to be an everyday/ongoing activity
City can issue watering bans	This activity was determined to be an everyday/ongoing activity
The three dams within the city limits are inspected & maintained to DNR standards	This activity was determined to be an everyday/ongoing activity
Maintain snow plowing removal equipment and upgrade as needed and funds become available.	This activity was determined to be an everyday/ongoing activity
Maintain an adequate supply of salt for county roads in icy weather	This activity was determined to be an everyday/ongoing activity
Emergency snow routes are designated by county ordinance. Snow removal plan in place, school bus routes have priority	This activity was determined to be an everyday/ongoing activity
Maintain a supply of extra culverts and materials for repairs for emergency use.	This activity was determined to be an everyday/ongoing activity
Maintain, map and update a list of low-lying roads and bridges list that are in peril. Sheriff Dept. Checks all low lying roads for problems	This activity was determined to be an everyday/ongoing activity
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.	This activity was determined to be an everyday/ongoing activity
Partnership with NECAC, Healthy Dept., and churches, and local service clubs for distribution of fans as needed	This activity was determined to be an everyday/ongoing activity
Establish cooling center at shelters	This activity was determined to be an everyday/ongoing activity
Update Emergency Operating Plan on a regular schedule	This activity was determined to be an everyday/ongoing activity
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.	This activity was determined to be an everyday/ongoing activity
Utilities are being placed underground in the business districts, new subdivisions, and new industrial parks.	This activity was determined to be an everyday/ongoing activity

Water meters are being replaced with electronic read devices to eliminate meter breakages and possible water main breakage or damage.	This activity was determined to be an everyday/ongoing activity
Build new salt storage facility to maintain adequate supply of salt.	This activity was determined to be an everyday/ongoing activity
Study of current warning siren system and upgrade as needed and funds become available.	This activity was determined to be an everyday/ongoing activity
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.	This activity was determined to be an everyday/ongoing activity
EOC (Emergency Operations Center) established at the Police Department alternate EOC is at the Randolph Co. Ambulance Center	This activity was determined to be an everyday/ongoing activity
Water and waste-water plants have back-up generators in place.	This activity was determined to be an everyday/ongoing activity
Generator is available to pump fuel for city vehicle during power outages.	This activity was determined to be an everyday/ongoing activity
Investigate passing an ordinance to require any new trailer parks to provide an on-site storm shelter	This activity was determined to be an everyday/ongoing activity
Distribute Design Construction Awareness Brochures with Building permits, "Builders Kit"	This activity was determined to be an everyday/ongoing activity
Randolph County Joined the NFIP in 2007 and will continue to comply with and implement the NFIP requirements and to reduce the flood risk associated with the flood hazards areas	This activity was determined to be an everyday/ongoing activity
Burning Bans issued by County Commissions as needed and city of Moberly. Cities will cooperate with burning bas when issued.	This activity was determined to be an everyday/ongoing activity
Trash burning is prohibited by ordinance	This activity was determined to be an everyday/ongoing activity
Enforcement of current building codes, IBC 2003	This activity was determined to be an everyday/ongoing activity
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.	This activity was determined to be an everyday/ongoing activity
Village of Renick	
Informational brochures available to public at health Dept., Fire Depts., and courthouse	This activity was determined to be an everyday/ongoing activity
Promote NOAA radios in businesses, private homes, and large gatherings, campgrounds. COC promote NOAA radio to its members and webpage	This activity was determined to be an everyday/ongoing activity
Remove trees from power line easements in addition to current trimming program	This activity was determined to be an everyday/ongoing activity
Insure that county school business are outfitted with two way communication	This activity was determined to be an everyday/ongoing activity
Health Dept. is investigating obtaining portable generators for shelters as funds become available.	This activity was determined to be an everyday/ongoing activity
Encourage schools to conduct programs on earthquake safety	This activity was determined to be an everyday/ongoing activity
Maintain Mutual Aid Agreement with surrounding communities and update on a regular schedule	This activity was determined to be an everyday/ongoing activity
Conduct and participate regularly scheduled (annually) training for weather spotters	This activity was determined to be an everyday/ongoing activity
Monthly testing of warning sirens throughout the county	This activity was determined to be an everyday/ongoing activity
Purchase additional two-way radios and cell phones for weather	This activity was determined to be an
spotters as program grows and funds become available. Table top exercise on earthquake safety conducted June 2007,	everyday/ongoing activity This activity was determined to be an
schedule on regular basis Participate in regularly scheduled Table-top exercises and mock	everyday/ongoing activity This activity was determined to be an
emergency exercise, at least annually. Maintain & clean blocked culverts on a regular schedule.	everyday/ongoing activity This activity was determined to be an everyday/ongoing activity

Update and maintain list of building that are designated as shelters, distribute list. Update annually	This activity was determined to be an everyday/ongoing activity
Contract for snow removal	This activity was determined to be an everyday/ongoing activity
Establish cooling center at shelters	This activity was determined to be an everyday/ongoing activity
Establish EOC (Emergency Operations Center) at the Fire Department	This activity was determined to be an everyday/ongoing activity
Update Emergency Operating Plan on a regular schedule	This activity was determined to be an everyday/ongoing activity
Burning Bans issued by County Commissions as needed and city of Moberly. Cities will cooperate with burning bas when issued.	This activity was determined to be an everyday/ongoing activity
Higbee R-VIII School District	
Randolph County 911 direct notification system for sever weather alerts to schools, Nursing homes, hospitals, and Fire Departments	This activity was determined to be an everyday/ongoing activity
Have educational brochures on what to do in extreme heat and drought conditions and distribute to nursing homes, Childcare centers, and schools	This activity was determined to be an everyday/ongoing activity
Table top exercise on earthquake safety conducted June 2007, schedule on regular basis	This activity was determined to be an everyday/ongoing activity
Moberly School District	
Randolph County 911 direct notification system for sever weather alerts to schools, Nursing homes, hospitals, and Fire Departments	This activity was determined to be an everyday/ongoing activity
Have educational brochures on what to do in extreme heat and drought conditions and distribute to nursing homes, Childcare centers, and schools	This activity was determined to be an everyday/ongoing activity
Table top exercise on earthquake safety conducted June 2007, schedule on regular basis	This activity was determined to be an everyday/ongoing activity
Renick R-V School District	
Randolph County 911 direct notification system for sever weather alerts to schools, Nursing homes, hospitals, and Fire Departments	This activity was determined to be an everyday/ongoing activity
Have educational brochures on what to do in extreme heat and drought conditions and distribute to nursing homes, Childcare centers, and schools	This activity was determined to be an everyday/ongoing activity
Table top exercise on earthquake safety conducted June 2007, schedule on regular basis	This activity was determined to be an everyday/ongoing activity
Westran R-I School District	This activity was determined to be an everyday/ongoing activity
Randolph County 911 direct notification system for sever weather alerts to schools, Nursing homes, hospitals, and Fire Departments	This activity was determined to be an everyday/ongoing activity
Have educational brochures on what to do in extreme heat and drought conditions and distribute to nursing homes, Childcare centers, and schools	This activity was determined to be an everyday/ongoing activity
Table top exercise on earthquake safety conducted June 2007, schedule on regular basis	This activity was determined to be an everyday/ongoing activity

Source: Previously approved County Hazard Mitigation Plan; Data Collection Questionnaires.

4.3 Implementation of Mitigation Actions

44 CFR Requirement §201.6(c)(3)(ii): The mitigation strategy shall include an action strategy describing how the actions identified in paragraph (c)(2)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefits review of the proposed projects and their associated costs.

Jurisdictional MPC members were encouraged to meet with others in their community to finalize the actions to be submitted for the updated mitigation strategy. Throughout the MPC consideration and discussion, emphasis was placed on the importance of a benefit-cost analysis in determining project priority. The Disaster Mitigation Act requires benefit-cost review as the primary method by which mitigation projects should be prioritized. The MPC decided to pursue implementation according to when and where damage occurs, available funding, political will, jurisdictional priority, and priorities identified in the 2018 Missouri State Hazard Mitigation Plan. The benefit/cost review at the planning stage primarily consisted of a qualitative analysis and was not the detailed process required grant funding application. For each action, the plan sets forth a narrative describing the types of benefits that could be realized from action implementation. The cost was estimated as closely as possible, with further refinement to be supplied as project development occurs.

FEMA's STAPLEE methodology was used to assess the costs and benefits, overall feasibility of mitigation actions, and other issues impacting project. During the prioritization process, the jurisdictions used worksheets to assign scores. The worksheets posed questions based on the STAPLEE elements as well as the potential mitigation effectiveness of each action. Scores were based on the responses to the questions as follows:

Definitely YES = 3 points Maybe YES = 2 points Probably NO = 1 points Definitely NO = 0 points

The following questions were asked for each proposed action.

- S: Is the action socially acceptable?
- T: Is the action technically feasible and potentially successful?
- A: Does the jurisdiction have the administrative capability to successfully implement this action?
- P: Is the action politically acceptable?
- L: Does the jurisdiction have the legal authority to implement the action?
- E: Is the action economically beneficial?

E: Will the project have an environmental impact that is either beneficial or neutral? (score "3" if positive and "2" if neutral)

Will the implemented action result in lives saved? Will the implanted action result in a reduction of disaster damage?

The final scores are listed below in the analysis of each action. The worksheets are attached to this plan as Appendix D. The STAPLEE final score for each action, absent other considerations, such as a localized need for a project, determined the priority. Low priority action items were those that had a total score of between 0 and 24. Moderate priority actions were those scoring between 25 and 29. High priority actions scored 30 or above. A blank STAPLEE worksheet is shown in Figure 4.1

Figure 4.1. Blank STAPLEE Worksheet

STAPLEE Worksheet		
Name of Jurisdiction:		
	Action or Project	
Action/Project Number:	Insert a unique action number for this action for This can be a combination of the jurisdiction nan number and action number (i.e. Joplin1.1)	• • •
Name of Action or Project:		
Mitigation Category:	Prevention; Structure and Infrastructure Projects Protection; Education and Outreach; Emergency	-
STAPLEE Criteria	Evaluation RatingDefinitely YES = 3Maybe YES = 2Probably NO = 1Definitely NO = 0	Score
S: Is it Socially Acceptable		
T: Is it Technically feasible and potenti	ally successful?	
A: Does the jurisdiction have the Adm	inistrative capacity to execute this action?	
P: Is it Politically acceptable?		
L: Is there Legal authority to implemer	L: Is there Legal authority to implement?	
E: Is it Economically beneficial?		
E: Will the project have either a neutra Environment ?	al or positive impact on the natural	
Will historic structures be saved or pro	tected?	
Could it be implemented quickly?		
	STAPLEE SCORE	
Mitigation Effectiveness Criteria	Evaluation Rating	Score
Will the implemented action result in lives saved?	Assign from 5-10 points based on the likelihood that lives will be saved.	
Will the implemented action result in a reduction of disaster damages?	Assign from 5-10 points based on the relative reduction of disaster damages.	
	MITIGATION EFFECTIVENESS SCORE	
	TOTAL SCORE (STAPLEE + Mitigation Effectiveness)	

High Priority	Medium Priority	Low Priority
(30+ points)	(25 - 29 points)	(<25 points)

Completed by

(Name, Title, Phone Number)

ACTION WORKSHEETS

Action Worksheet			
Name of Jurisdiction:	Randolph County		
Risk / Vulnerability			
Hazard(s) Addressed:	T, STT, SWW		
Problem being Mitigated:	Establishing and providing infrastructure any portions of Randolph County with concentrated populations not current covered by outside warning systems.		
	Action or Project		
Applicable Goal Statement:	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.		
Action/Project Number:	Randolph 1.1		
Name of Action or Project:	New Outdoor Warning System		
Mitigation Category:	Structure and Infrastructure Projects, Emergency Services		
Action or Project Description:	Provide severe weather outdoor warning system in communities and areas of Randolph County with clusters of populations not currently served by the existing system.		
Estimated Cost:	\$70,000		
Benefits:	Provides emergency alert system.		
	Plan for Implementation		
Responsible Organization/Department:	Randolph County Emergency Management Agency		
Action/Project Priority:	High		
Timeline for Completion:	1-3 years		
Potential Fund Sources:	Grant		
Local Planning Mechanisms to be Used in Implementation, if any:	N/A		
	Progress Report		
Action Status:	New		
Report of Progress:	N/A		

Action Worksheet			
Name of Jurisdiction:	Randolph County		
	Risk / Vulnerability		
Hazard(s) Addressed:	EQ, SWW, T, ST,		
Problem being Mitigated:	Back-up Power Supply for critical facilities		
	Action or Project		
Applicable Goal Statement:	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.		
Action/Project Number:	Randolph 1.2		
Name of Action or Project:	Back-up Power Supply For Critical Facilities		
Mitigation Category:	Structure and Infrastructure Projects, Natural Systems Protections		
Action or Project Description:	The instillation of back-up power supplies for facilities in Randolph County that are designated as emergency shelters and emergency response facilities such as fire stations in the County.		
Estimated Cost:	\$250,000.00 County wide		
Benefits:	Allow for high priority operations facilities during long-term power outages.		
	Plan for Implementation		
Responsible Organization/Department:	Randolph County Emergency Management Agency		
Action/Project Priority:	High		
Timeline for Completion:	1-5 years		
Potential Fund Sources:	Grant, Taxes		
Local Planning Mechanisms to be Used in Implementation, if any:	N/A		
Progress Report			
Action Status:	New		
Report of Progress:	N/A		

Action Worksheet			
Name of Jurisdiction:	Randolph County		
	Risk / Vulnerability		
Hazard(s) Addressed:	ST SW T RF EQ WF		
Problem being Mitigated:	Emergency Response Infrastructure		
	Action or Project		
Applicable Goal Statement:	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.		
Action/Project Number:	Randolph 1.3		
Name of Action or Project:	Portable Emergency Lighting		
Mitigation Category:	Structure and Infrastructure Projects, Emergency Services		
Action or Project Description:	To establish deployable portable lighting systems during emergency operations.		
Estimated Cost:	\$75,000		
Benefits:	Portable emergency lighting systems		
	Plan for Implementation		
Responsible Organization/Department:	Randolph County Emergency Management Agency		
Action/Project Priority:	High		
Timeline for Completion:	1-3 years		
Potential Fund Sources:	Grants and donations		
Local Planning Mechanisms to be Used in Implementation, if any:	County Emergency Operations Plan		
Progress Report			
Action Status:	New		
Report of Progress:	N/A		

Action Worksheet		
Name of Jurisdiction:	Randolph County	
	Risk / Vulnerability	
Hazard(s) Addressed:	RF, ST, SWW	
Problem being Mitigated:	Improve infrastructure for movement of residents inside the affected area during flooding and severe weather.	
	Action or Project	
Applicable Goal Statement:	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.	
Action/Project Number:	Randolph 1.4	
Name of Action or Project:	Low Water Crossings	
Mitigation Category:	Structure and Infrastructure Projects, Emergency Services	
Action or Project Description:	Improve transportations assets subject to flooding during weather related events limiting normal access and access of emergency response vehicles in critical incidents.	
Estimated Cost:	\$750,000	
Benefits:	Provides transportation routes during server weather conditions.	
	Plan for Implementation	
Responsible Organization/Department:	Randolph County Emergency Management Agency	
Action/Project Priority:	High	
Timeline for Completion:	2-5 years	
Potential Fund Sources:	Grant, Local Matching Funds	
Local Planning Mechanisms to be Used in Implementation, if any:	Transportation Plan	
Progress Report		
Action Status:	New	
Report of Progress:	N/A	

Action Worksheet		
Name of Jurisdiction:	Randolph County	
Risk / Vulnerability		
Hazard(s) Addressed:	RF, ST,	
Problem being Mitigated:	Water flow control in during annual flooding events.	
	Action or Project	
Applicable Goal Statement:	<u>Goal 3</u> 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.	
Action/Project Number:	Randolph 1.5	
Name of Action or Project:	Culvert Replacement	
Mitigation Category:	Structure and Infrastructure Projects, Natural Systems Protections	
Action or Project Description:	Replacement of damaged or aged roadway culverts that prevent the natural flow of water during normal or significant rain events.	
Estimated Cost:	\$250,000.00	
Benefits:	Allow for the protection of the environment by allowing water to flow naturally through areas with roadways.	
	Plan for Implementation	
Responsible Organization/Department:	Randolph County Emergency Management Agency	
Action/Project Priority:	High	
Timeline for Completion:	2-5 years	
Potential Fund Sources:	Grants with local mating funds and labor	
Local Planning Mechanisms to be Used in Implementation, if any:	N/A	
Progress Report		
Action Status:	New	
Report of Progress:	N/A	

Action Worksheet	
Name of Jurisdiction:	Randolph County
	Risk / Vulnerability
Hazard(s) Addressed:	RF ST SWW
Problem being Mitigated:	Flooding
	Action or Project
Applicable Goal Statement:	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.
Action/Project Number:	Randolph 1.6
Name of Action or Project:	Roadway Elevation
Mitigation Category:	Structure and Infrastructure Projects, Emergency Services
Action or Project Description:	To improve roadway infrastructure subject to flooding in rain events due to low elevations of the targeted roadways.
Estimated Cost:	\$275,000
Benefits:	Improved roadway infrastructure
	Plan for Implementation
Responsible Organization/Department:	Randolph County Emergency Management Agency
Action/Project Priority:	High
Timeline for Completion:	2-5 years
Potential Fund Sources:	Grants with matching local funding and labor
Local Planning Mechanisms to be Used in Implementation, if any:	Transportation Plan
Progress Report	
Action Status:	New
Report of Progress:	N/A

Action Worksheet	
Name of Jurisdiction:	Randolph County
Risk / Vulnerability	
Hazard(s) Addressed:	Flooding
Problem being Mitigated:	Continue participation in NFIP
Action or Project	
Applicable Goal Statement:	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.
Action/Project Number:	Randolph 1.7
Name of Action or Project:	NFIP Participation
Mitigation Category:	Natural Systems Protection, Emergency Services, Education and Outreach, Structure and Infrastructure Projects, and Prevention
Action or Project Description:	Regulate new construction in SFHA.
Estimated Cost:	N/A
Benefits:	Protection of life and reduction of damages due to accessibility to citizens in times of need.
Plan for Implementation	
Responsible Organization/Department:	Randolph County Emergency Management Agency
Action/Project Priority:	High
Timeline for Completion:	1 year
Potential Fund Sources:	County funds
Local Planning Mechanisms to be Used in Implementation, if any:	Floodplain Ordinace
Progress Report	
Action Status:	Continuing- in progress
Report of Progress:	Ongoing

Action Worksheet	
Name of Jurisdiction:	City of Moberly
	Risk / Vulnerability
Hazard(s) Addressed:	ET ST SW T WF EQ RF
Problem being Mitigated:	Establishing and providing infrastructure to limit impact on loss of life, and loss to economy before, during and after a major incident.
	Action or Project
Applicable Goal Statement:	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.
Action/Project Number:	Moberly 2.1
Name of Action or Project:	Construct a new fire station/ EOC
Mitigation Category:	Structure and Infrastructure Projects, Emergency Services
Action or Project Description:	Provides a good location to protect and store major emergency resources and establishes a standalone EOC that can be used by City, County, and State responders during a major incidents
Estimated Cost:	3 million
Benefits:	Provides Emergency resources
	Plan for Implementation
Responsible Organization/Department:	Fire Department
Action/Project Priority:	High
Timeline for Completion:	2-5 years
Potential Fund Sources:	CIP, Grants
Local Planning Mechanisms to be Used in Implementation, if any:	Building Plan
Progress Report	
Action Status:	New
Report of Progress:	N/A

Action Worksheet			
Name of Jurisdiction:	City of Moberly		
Risk / Vulnerability			
Hazard(s) Addressed:	ST SW T		
Problem being Mitigated:	Severe Weather Alert Notification		
	Action or Project		
Applicable Goal Statement:	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.		
Action/Project Number:	Moberly 2.2		
Name of Action or Project:	Upgrade outside severe weather notification system		
Mitigation Category:	Structure and Infrastructure Projects, Natural Systems Protections		
Action or Project Description:	Enhance the City of Moberly/Randolph County's outside weather alerting systems by updating old sirens and adding new ones, and install lightning alert sensors to areas near City golf course and local lakes.		
Estimated Cost:	\$250,000.00 County wide		
Benefits:	Improve notification of severe weather in the area. Life safety		
	Plan for Implementation		
Responsible Organization/Department:	Fire Department		
Action/Project Priority:	Medium		
Timeline for Completion:	3-5 years		
Potential Fund Sources:	Taxes, Grants,		
Local Planning Mechanisms to be Used in Implementation, if any:	City Emergency Operations Plan		
	Progress Report		
Action Status:	New		
Report of Progress:	N/A		

Action Worksheet		
Name of Jurisdiction:	City of Moberly	
	Risk / Vulnerability	
Hazard(s) Addressed:	ET ST SW T RF EQ	
Problem being Mitigated:	Adequate Sheltering	
	Action or Project	
Applicable Goal Statement:	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.	
Action/Project Number:	Moberly 2.3	
Name of Action or Project:	Enhance Emergency Sheltering	
Mitigation Category:	Structure and Infrastructure Projects, Emergency Services	
Action or Project Description:	To identify possible shelters in the county, investigate their needs, and supplies the infrastructure needed to stay self-sufficient. i.e generators, electrical connections, cooking and other sheltering needs.	
Estimated Cost:	\$125,000	
Benefits:	Adequate sheltering for communities after a disaster	
	Plan for Implementation	
Responsible Organization/Department:	Moberly Housing Department	
Action/Project Priority:	Medium	
Timeline for Completion:	2-4 years	
Potential Fund Sources:	Grants and donations	
Local Planning Mechanisms to be Used in Implementation, if any:	Housing Plan	
Progress Report		
Action Status:	New	
Report of Progress:	N/A	

Action Worksheet	
Name of Jurisdiction:	City of Moberly
	Risk / Vulnerability
Hazard(s) Addressed:	Flooding
Problem being Mitigated:	Raw Water pump starting at Sugar creek Lake is in flood zone and needs to be protected.
	Action or Project
Applicable Goal Statement:	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.
Action/Project Number:	Moberly 2.4
Name of Action or Project:	Sugar Creek Lake Pump House Flood Protection
Mitigation Category:	Prevention: structure and Infrastructure project.
Action or Project Description:	Provide protection for pump house from flooding from spillway rainwater.
Estimated Cost:	\$250,000
Benefits:	Health protection / continued potable water service to 14,000 people, fire suppression, Economic Protection -Business and Industry to continue to operate.
	Plan for Implementation
Responsible Organization/Department:	Public Utilities Manager
Action/Project Priority:	High
Timeline for Completion:	2 Years
Potential Fund Sources:	CIP, Bond issue, rates, grants
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	New
Report of Progress:	N/A

Action Worksheet	
Name of Jurisdiction:	City of Moberly
	Risk / Vulnerability
Hazard(s) Addressed:	Flooding, Infrastructure Protection, dam failure.
Problem being Mitigated:	Water works lake and Rothwell Lake spillways are eroding, spillways are eroding during heavy rainfall.
	Action or Project
Applicable Goal Statement:	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.
Action/Project Number:	Moberly 2.5
Name of Action or Project:	Repair and update spillways and develop lake level management infrastructure to manage runoff from spillway.
Mitigation Category:	Structure & Infrastructure Projects, Flooding
Action or Project Description:	The spillways and dams will be evaluated for repairs or upgrades to allow active management of lake levels to reduce level, amount and velocity of overflows. Once evaluation is complete, the recommended upgrades and repairs will be completed.
Estimated Cost:	\$400,000
Benefits:	Reduced flooding downstream, reduced road closures to bridge washouts, reduced environmental harm from sediment from erosion.
	Plan for Implementation
Responsible Organization/Department:	Moberly Utilities Department & Parks Department
Action/Project Priority:	High
Timeline for Completion:	2-5 Years
Potential Fund Sources:	CIP, Parks Sales Tax, Grants
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
	Progress Report
Action Status:	New
Report of Progress:	N/A

Action Worksheet		
Name of Jurisdiction:	City of Moberly	
	Risk / Vulnerability	
Hazard(s) Addressed:	Flooding, Land Subsidence, sinkholes	
Problem being Mitigated:	Flooding of area streets and stormwater infrastructure.	
	Action or Project	
Applicable Goal Statement:	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.	
Action/Project Number:	Moberly 2.6	
Name of Action or Project:	Stormwater Study and Improvements	
Mitigation Category:	Structure and Infrastructure projects, natural systems protection	
Action or Project Description:	Develop a stormwater needs assessment and improvement priority plan to prioritize implementation of stormwater improvement projects to best utilize funding, protect public health and safety, and minimize impacts on area streams. Projects will include construction of stormwater infrastructure and utilize natural detention.	
Estimated Cost:	Phased Project \$10M.	
Benefits:	Reduced severe flooding of roadways causing road closures, reduced damage to stream crossings, slow runoff allowing for less erosion & flooding downstream.	
	Plan for Implementation	
Responsible Organization/Department:	Public Works & Public Utilities	
Action/Project Priority:	High	
Timeline for Completion:	2-5 Years	
Potential Fund Sources:	Sales Tax, Grants	
Local Planning Mechanisms to be Used in Implementation, if any:	N/A	
	Progress Report	
Action Status:	New	
Report of Progress:	N/A	

Action Worksheet		
Name of Jurisdiction:	City of Moberly	
Risk / Vulnerability		
Hazard(s) Addressed:	Flooding	
Problem being Mitigated:	Continue participation in NFIP	
Action or Project		
Applicable Goal Statement:	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.	
Action/Project Number:	Moberly 2.7	
Name of Action or Project:	Regulate new construction in SFHA	
Mitigation Category:	Natural Systems Protection, Emergency Services, Education and Outreach, Structure and Infrastructure Projects, and Prevention	
Action or Project Description:	Continue Moberly's participation and good standing in National Flood Insurance Program	
Estimated Cost:	N/A	
Benefits:	Protection of life and reduction of damages due to accessibility to citizens in times of need.	
Plan for Implementation		
Responsible Organization/Department:	City Administrator	
Action/Project Priority:	High	
Timeline for Completion:	1 year	
Potential Fund Sources:	City funds	
Local Planning Mechanisms to be Used in Implementation, if any:	Floodplain ordinance	
Progress Report		
Action Status:	Continuing- in progress	
Report of Progress:	Ongoing	

Action Worksheet	
Name of Jurisdiction:	City of Huntsville
	Risk / Vulnerability
Hazard(s) Addressed:	T, STT, SWW
Problem being Mitigated:	Establishing and providing infrastructure any portions of Randolph County with concentrated populations not current covered by outside warning systems.
	Action or Project
Applicable Goal Statement:	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.
Action/Project Number:	Huntsville 3.1
Name of Action or Project:	Outdoor Warning Siren
Mitigation Category:	Structure and Infrastructure Projects, Emergency Services
Action or Project Description:	Provide severe weather outdoor warning system in Huntsville.
Estimated Cost:	\$22,000
Benefits:	Provides emergency alert system.
	Plan for Implementation
Responsible Organization/Department:	City Clerk
Action/Project Priority:	High
Timeline for Completion:	1-3 years
Potential Fund Sources:	Grant
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	New
Report of Progress:	N/A

Action Worksheet	
Name of Jurisdiction:	City of Huntsville
	Risk / Vulnerability
Hazard(s) Addressed:	EQ LSS ET ST SWW T WF
Problem being Mitigated:	Lack of Education
	Action or Project
Applicable Goal Statement:	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.
Action/Project Number:	Huntsville 3.2
Name of Action or Project:	Storm Education
Mitigation Category:	Education and Outreach
Action or Project Description:	The City could obtain and host programs to educate residents concerning hazards such as tornadoes, major winter storms, etc
Estimated Cost:	\$0
Benefits:	Education allows for better preparedness for an event
	Plan for Implementation
Responsible Organization/Department:	City Clerk
Action/Project Priority:	Medium
Timeline for Completion:	1-5 years
Potential Fund Sources:	N/A
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	New
Report of Progress:	N/A

Action Worksheet	
Name of Jurisdiction:	City of Huntsville
	Risk / Vulnerability
Hazard(s) Addressed:	RF LF DF EQ LSS D ET ST SWW T WF
Problem being Mitigated:	Post Disaster response
	Action or Project
Applicable Goal Statement:	Goal 2- Strengthen Communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards
Action/Project Number:	Huntsville 3.3
Name of Action or Project:	Mutual Aid agreements
Mitigation Category:	Prevention; Emergency Services
Action or Project Description:	Maintain mutual aid pacts across responding agencies, including law enforcement, fire, and public works
Estimated Cost:	\$0
Benefits:	Increases access to resources for response and recovery
	Plan for Implementation
Responsible Organization/Department:	City Clerk
Action/Project Priority:	High
Timeline for Completion:	1 year
Potential Fund Sources:	N/A
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	Ongoing
Report of Progress:	It is an ongoing effort to have mutual aid agreements

Action Worksheet	
Name of Jurisdiction:	City of Huntsville
Risk / Vulnerability	
Hazard(s) Addressed:	Flooding
Problem being Mitigated:	Continue participation in NFIP
Action or Project	
Applicable Goal Statement:	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.
Action/Project Number:	Huntsville 3.4
Name of Action or Project:	Regulate new construction in SFHA
Mitigation Category:	Natural Systems Protection, Emergency Services, Education and Outreach, Structure and Infrastructure Projects, and Prevention
Action or Project Description:	Continue Huntsville's participation and good standing in National Flood Insurance Program
Estimated Cost:	N/A
Benefits:	Protection of life and reduction of damages due to accessibility to citizens in times of need.
Plan for Implementation	
Responsible Organization/Department:	City Clerk
Action/Project Priority:	High
Timeline for Completion:	1 year
Potential Fund Sources:	City funds
Local Planning Mechanisms to be Used in Implementation, if any:	Floodplain Ordinance
Progress Report	
Action Status:	Continuing- in progress
Report of Progress:	Ongoing

Action Worksheet			
Name of Jurisdiction:	City of Higbee		
	Risk / Vulnerability		
Hazard(s) Addressed:	EQ, ET, ST, SWW, T		
Problem being Mitigated:	Storm Shelter to offer protection to residents		
	Action or Project		
Applicable Goal Statement:	Goal 3: Investigate, implement, maintain, and enforce mitigation policies and programs that limit that impact of natural hazards; on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.		
Action/Project Number:	Higbee 4.1		
Name of Action or Project:	Community Safe Room		
Mitigation Category:	Prevention; Structure and Infrastructure Projects		
Action or Project Description:	Build a storm shelter to allow for a safe place in the event of a storm or other events; as funds become available.		
Estimated Cost:	\$1,000,000.00		
Benefits:	Storm Shelter offers a safe place for residents to go in the event of an emergency		
	Plan for Implementation		
Responsible Organization/Department:	City Clerk		
Action/Project Priority:	High		
Timeline for Completion:	1-5 years		
Potential Fund Sources:	N/A		
Local Planning Mechanisms to be Used in Implementation, if any:	N/A		
Progress Report			
Action Status:	New		
Report of Progress:	N/A		

Action Worksheet	
Name of Jurisdiction:	City of Clark
	Risk / Vulnerability
Hazard(s) Addressed:	D
Problem being Mitigated:	Lack of water during drought
	Action or Project
Applicable Goal Statement:	Goal 3: Investigate, implement, maintain, and enforce mitigation policies and programs that limit that impact of natural hazards; on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.
Action/Project Number:	Clark 5.1
Name of Action or Project:	Repair Well Pump
Mitigation Category:	Structure and Infrastructure Projects
Action or Project Description:	Repair of existing well pump to get it in working condition.
Estimated Cost:	\$50,000
Benefits:	Residents will have access to water during periods of drought.
	Plan for Implementation
Responsible Organization/Department:	City Clerk
Action/Project Priority:	High
Timeline for Completion:	1-5 years
Potential Fund Sources:	N/A
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	New
Report of Progress:	N/A

Action Worksheet	
Name of Jurisdiction:	Village of Renick
	Risk / Vulnerability
Hazard(s) Addressed:	T, STT, SWW
Problem being Mitigated:	Provide early warning to residents.
	Action or Project
Applicable Goal Statement:	<u>Goal 3</u> 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.
Action/Project Number:	Renick 6.1
Name of Action or Project:	Outdoor Warning System
Mitigation Category:	Structure and Infrastructure Projects, Emergency Services
Action or Project Description:	Provide severe weather outdoor warning system to residents.
Estimated Cost:	\$22,000
Benefits:	Provides emergency alert system.
	Plan for Implementation
Responsible Organization/Department:	City Clerk
Action/Project Priority:	High
Timeline for Completion:	1-3 years
Potential Fund Sources:	Grant
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	New
Report of Progress:	N/A

Action Worksheet			
Name of Jurisdiction:	Village of Renick		
	Risk / Vulnerability		
Hazard(s) Addressed:	EQ, ET, ST, SWW, T		
Problem being Mitigated:	Storm Shelter to offer protection to residents		
	Action or Project		
Applicable Goal Statement:	Goal 3: Investigate, implement, maintain, and enforce mitigation policies and programs that limit that impact of natural hazards; on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.		
Action/Project Number:	Renick 6.2		
Name of Action or Project:	Community Safe Room		
Mitigation Category:	Prevention; Structure and Infrastructure Projects		
Action or Project Description:	Build a storm shelter to allow for a safe place in the event of a storm or other events; as funds become available.		
Estimated Cost:	\$1,000,000.00		
Benefits:	Storm Shelter offers a safe place for residents to go in the event of an emergency		
	Plan for Implementation		
Responsible Organization/Department:	City Clerk		
Action/Project Priority:	High		
Timeline for Completion:	1-5 years		
Potential Fund Sources:	Grants		
Local Planning Mechanisms to be Used in Implementation, if any:	N/A		
Progress Report			
Action Status:	New		
Report of Progress:	N/A		

Action Worksheet	
Name of Jurisdiction:	Village of Cairo
	Risk / Vulnerability
Hazard(s) Addressed:	EQ, ET, ST, SWW, T
Problem being Mitigated:	Storm Shelter to offer protection to residents
	Action or Project
Applicable Goal Statement:	Goal 3: Investigate, implement, maintain, and enforce mitigation policies and programs that limit that impact of natural hazards; on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.
Action/Project Number:	Cairo 7.1
Name of Action or Project:	Emergency Shelter
Mitigation Category:	Prevention; Structure and Infrastructure Projects
Action or Project Description:	Build a storm shelter to allow for a safe place during severe weather.
Estimated Cost:	\$1,000,000.00
Benefits:	Storm Shelter offers a safe place for residents to go in the event of an emergency
	Plan for Implementation
Responsible Organization/Department:	City Clerk
Action/Project Priority:	High
Timeline for Completion:	1-5 years
Potential Fund Sources:	Grants
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	New
Report of Progress:	N/A

Action Worksheet	
Name of Jurisdiction:	Village of Cairo
	Risk / Vulnerability
Hazard(s) Addressed:	RF
Problem being Mitigated:	Flooding
	Action or Project
Applicable Goal Statement:	Goal 3: Investigate, implement, maintain, and enforce mitigation policies and programs that limit that impact of natural hazards; on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.
Action/Project Number:	Cairo 7.2
Name of Action or Project:	Storm Drainage Improvements
Mitigation Category:	Prevention; Structure and Infrastructure Projects
Action or Project Description:	Improve drainage in existing ditches to prevent flooding
Estimated Cost:	\$250,000
Benefits:	Residents will not be impacted by flooding.
	Plan for Implementation
Responsible Organization/Department:	City Clerk
Action/Project Priority:	High
Timeline for Completion:	1-5 years
Potential Fund Sources:	N/A
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	New
Report of Progress:	N/A

Action Worksheet	
Name of Jurisdiction:	Village of Cairo
	Risk / Vulnerability
Hazard(s) Addressed:	EQ ST SWW T
Problem being Mitigated:	No vehicles to remove debris after disaster
	Action or Project
Applicable Goal Statement:	Goal 3: Investigate, implement, maintain, and enforce mitigation policies and programs that limit that impact of natural hazards; on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.
Action/Project Number:	Cairo 7.3
Name of Action or Project:	Obtain adequate equipment to clear roads/streets
Mitigation Category:	Prevention; Structure and Infrastructure Projects
Action or Project Description:	Purchase adequate street equipment that is ready to remove debris.
Estimated Cost:	\$200,000
Benefits:	Equipment will provide safety to residents by having debris removed
	Plan for Implementation
Responsible Organization/Department:	City Clerk
Action/Project Priority:	High
Timeline for Completion:	1-5 years
Potential Fund Sources:	Grants
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	New
Report of Progress:	N/A

Action Worksheet	
Name of Jurisdiction:	Moberly Special Road District
	Risk / Vulnerability
Hazard(s) Addressed:	RF
Problem being Mitigated:	Storm water from approximately half of the City of Moberly comes down this creek, and winds through a narrow valley such that it crosses the road 7 times in less than 3 miles. Flash flooding is frequent and sometimes quite severe.
	Action or Project
Applicable Goal Statement:	Goal 3 Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.
Action/Project Number:	MSRD 8.1
Name of Action or Project:	Renovate 7 Bridges Road
Mitigation Category:	Prevention; Structure and Infrastructure Projects;
Action or Project Description:	Replace 7 structures in a 3 mile stretch of road, raise road above 5 year flood level on some stretches.
Estimated Cost:	\$1,300,000.00
Benefits:	Would alleviate frequent flash flooding, reducing/eliminating road and culvert washouts.
	Plan for Implementation
Responsible Organization/Department:	Moberly Special Road District Superintendent
Action/Project Priority:	High
Timeline for Completion:	5 years +, depending on funding availability.
Potential Fund Sources:	MSRD tax funds, Hazard Mitigation Funds
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	New
Report of Progress:	Preliminary engineering report is completed.

	Action Worksheet	
Name of Jurisdiction:	Moberly Special Road District	
	Risk / Vulnerability	
Hazard(s) Addressed:	RF	
Problem being Mitigated:	This is a crossing over a 10 foot deep wet weather stream which is only one lane wide, but the road on both sides is 2 lane.	
	Action or Project	
Applicable Goal Statement:	Goal 3 Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.	
Action/Project Number:	MSRD 8.2	
Name of Action or Project:	Widen 10 x10 Box Culvert	
Mitigation Category:	Prevention; Structure and Infrastructure Projects;	
Action or Project Description:	Remove 75 year old box culvert, which is only about 12 ft wide, and replace with box culvert which would allow a 22 ft. roadway	
Estimated Cost:	\$70,000.00	
Benefits:	This would replace a dangerous, narrow crossing, which is also quite deep, on a school bus route on a rural road that carries heavy traffic.	
	Plan for Implementation	
Responsible Organization/Department:	Moberly Special Road District Superintendent	
Action/Project Priority:	High	
Timeline for Completion:	4 Months	
Potential Fund Sources:	MSRD tax funds, Hazard Mitigation Funds	
Local Planning Mechanisms to be Used in Implementation, if any:	N/A	
Progress Report		
Action Status:	New	
Report of Progress:	Very preliminary examination by engineer.	

	Action Worksheet	
Name of Jurisdiction:	Moberly Special Road District	
	Risk / Vulnerability	
Hazard(s) Addressed:	RF	
Problem being Mitigated:	A drainage area of over 3200 acres flow through this culvert. It is not large enough, and frequently overtops the road, causing road to be closed in high water, and until approximately 500 ft of roadbed can be smoothed and re- graveled.	
	Action or Project	
Applicable Goal Statement:	Goal 3 Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.	
Action/Project Number:	MSRD 8.3	
Name of Action or Project:	Replace existing 8' CMP with an appropriately sized concrete box culvert.	
Mitigation Category:	Prevention; Structure and Infrastructure Projects;	
Action or Project Description:	Remove an existing CMP and replace with an adequately sized concrete box culvert. Roadbed would be raised to prevent overtopping.	
Estimated Cost:	\$121,000.00	
Benefits:	Eliminate flooding and related property damage, and road will stay open instead of being closed due to flooding.	
	Plan for Implementation	
Responsible Organization/Department:	Moberly Special Road District Superintendent	
Action/Project Priority:	High	
Timeline for Completion:	4 Months	
Potential Fund Sources:	MSRD tax funds, Hazard Mitigation Funds	
Local Planning Mechanisms to be Used in Implementation, if any:	N/A	
Progress Report		
Action Status:	New	
Report of Progress:	Very preliminary examination by engineer.	

Action Worksheet	
Name of Jurisdiction:	Moberly Special Road District
	Risk / Vulnerability
Hazard(s) Addressed:	RF
Problem being Mitigated:	During periods of heavy rain, this low water crossing floods, causing temporary road closure.
	Action or Project
Applicable Goal Statement:	Goal 3 Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.
Action/Project Number:	MSRD 8.4
Name of Action or Project:	Replace low-water crossing with Culvert
Mitigation Category:	Prevention; Structure and Infrastructure Projects;
Action or Project Description:	Remove existing low water crossing, and replace with box culvert of appropriate size; raise existing roadway to prevent overflow.
Estimated Cost:	\$80,000.00
Benefits:	This road is a school bus route, and causes delays and inconvenience during heavy rain events.
	Plan for Implementation
Responsible Organization/Department:	Moberly Special Road District Superintendent
Action/Project Priority:	High
Timeline for Completion:	4 Months
Potential Fund Sources:	MSRD tax funds, Hazard Mitigation Funds
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	New
Report of Progress:	Very preliminary examination by engineer.

Action Worksheet	
Name of Jurisdiction:	Renick R-V School District
	Risk / Vulnerability
Hazard(s) Addressed:	EQ, ET, ST, SWW, T
Problem being Mitigated:	In the small community of Renick, the school district is the only building that is appropriate to hold the population
	Action or Project
Applicable Goal Statement:	<u>Goal 3</u> 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.
Action/Project Number:	Renick R-V 9.1
Name of Action or Project:	Generator Implication
Mitigation Category:	Emergency Services
Action or Project Description:	Purchase three Generac Protector® 50kW Automatic Standby Diesel Generator (277/480V 3-Phase) on wheels to provide enough electricity to continue running the HVAC systems in the school district to allow emergency housing for community members.
Estimated Cost:	Each generator would cost approximately \$20,000 for a total of \$60,000
Benefits:	Provide an adequate temperature for community member's survival during an emergency.
	Plan for Implementation
Responsible Organization/Department:	The Superintendent of Renick R-V School District
Action/Project Priority:	Medium
Timeline for Completion:	Three years
Potential Fund Sources:	Local funds and grants
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	New
Report of Progress:	N/A

Action Worksheet	
Name of Jurisdiction:	Renick R-V School District
	Risk / Vulnerability
Hazard(s) Addressed:	T, SWW, ST
Problem being Mitigated:	Storm Shelter for small rural community of Renick, MO
	Action or Project
Applicable Goal Statement:	<u>Goal 3</u> 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.
Action/Project Number:	Renick R-V 9.2
Name of Action or Project:	Community Storm Shelter
Mitigation Category:	Emergency Service, Prevention
Action or Project Description:	Build a storm shelter for community hazards but use it year round as a preschool, Early Childhood Special Education Center and Special Education room. The special education centers would contain various equipment for Occupational Therapy, Physical Therapy, Speech and Language Therapy and a sensory room. It would also hold a safe room for students needing a safe place to calm themselves.
Estimated Cost:	3 million dollars
Benefits:	Provide a safe haven for community members that do not have basements
	Plan for Implementation
Responsible Organization/Department:	The Superintendent of Renick R-V School District
Action/Project Priority:	Low
Timeline for Completion:	Five years
Potential Fund Sources:	Local funds and grants
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	New
Report of Progress:	N/A

Action Worksheet		
Name of Jurisdiction:	Westran School District	
	Risk / Vulnerability	
Hazard(s) Addressed:	T, SWW, ST	
Problem being Mitigated:	Safe room for school and community	
	Action or Project	
Applicable Goal Statement:	<u>Goal 3</u> 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.	
Action/Project Number:	Westran 10.1	
Name of Action or Project:	Safe Room for School and Community	
Mitigation Category:	Prevention; Structure and Infrastructure Projects;	
Action or Project Description:	To build a school and community safe room for inclement weather situations	
Estimated Cost:	\$750,000	
Benefits:	Our community and schools do not have an adequate safe room to shelter all the students and the community. By building a safe room/cafeteria at the high school we would be able to make sure all the students and surrounding community members could seek safe shelter during inclement weather.	
	Plan for Implementation	
Responsible Organization/Department:	Westran R-1 School District Superintendent	
Action/Project Priority:	High	
Timeline for Completion:	1 – 3	
Potential Fund Sources:	Grants and Westran School District Capital Project	
Local Planning Mechanisms to be Used in Implementation, if any:	N/A	
	Progress Report	
Action Status:	New	
Report of Progress:	N/A	

Action Worksheet						
Name of Jurisdiction:	Higbee R-VIII School District					
Risk / Vulnerability						
Hazard(s) Addressed:	EQ, ET, ST, SWW, T					
Problem being Mitigated:	Storm Shelter to offer protection to students and staff					
	Action or Project					
Applicable Goal Statement:	Goal 3: Investigate, implement, maintain, and enforce mitigation policies and programs that limit that impact of natural hazards; on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.					
Action/Project Number:	Higbee R-VIII 11.1					
Name of Action or Project:	Building Storm Shelter					
Mitigation Category:	Prevention; Structure and Infrastructure Projects					
Action or Project Description:Build a storm shelter to allow for a safe place in the event of a storm events; as funds become available.						
Estimated Cost:	\$1,000,000.00					
Benefits:	Storm Shelter offers a safe place for students and staff to go in the event of an emergency					
	Plan for Implementation					
Responsible Organization/Department:	Higbee R-VIII School District Superintendent					
Action/Project Priority:	High					
Timeline for Completion:	1-5 years					
Potential Fund Sources:	N/A					
Local Planning Mechanisms to be Used in Implementation, if any:	N/A					
Progress Report						
Action Status:	New					
Report of Progress:	N/A					

Action Worksheet						
Name of Jurisdiction:	Higbee R-VIII School District					
Risk / Vulnerability						
Hazard(s) Addressed:	EQ ST SWW T					
Problem being Mitigated:	Structure Failure					
	Action or Project					
Applicable Goal Statement:	Goal 3: Investigate, implement, maintain, and enforce mitigation policies and programs that limit that impact of natural hazards; on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.					
Action/Project Number:	Higbee R-VIII 11.2					
Name of Action or Project:	Building Safety Equipment					
Mitigation Category:	Structure and Infrastructure Projects					
Action or Project Description:	Equip building with safety equipment.					
Estimated Cost:	\$75,000					
Benefits:	Students will be protected during storm events					
	Plan for Implementation					
Responsible Organization/Department:	Higbee R-VIII School District Superintendent					
Action/Project Priority:	High					
Timeline for Completion:	1-5 years					
Potential Fund Sources:	N/A					
Local Planning Mechanisms to be Used in Implementation, if any:	N/A					
Progress Report						
Action Status:	New					
Report of Progress:	N/A					

Action Worksheet						
Name of Jurisdiction:	Moberly School District					
Risk / Vulnerability						
Hazard(s) Addressed:	Tornado, Severe Storms, Earthquake					
Problem being Mitigated:	Storm shelter to offer protection to students and staff.					
	Action or Project					
Applicable Goal Statement:	Goal 3: Investigate, implement, maintain, and enforce mitigation policies and programs that limit that impact of natural hazards; on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.					
Action/Project Number:	Moberly 12.1					
Name of Action or Project:	Building Storm Shelter					
Mitigation Category:	Prevention; Structure and Infrastructure Projects					
Action or Project Description:	If and when the Moberly School District #81 has new construction planned, a tornado storm shelter will be considered. The project would be to build a storm shelter to allow for a safe place in the event of a storm or other events as funds become available.					
Estimated Cost:	\$2,000,000.00					
Benefits:	Storm Shelter offers a safe place for students and staff to go in the event of an emergency					
	Plan for Implementation					
Responsible Organization/Department:	Moberly School District #81 Superintendent					
Action/Project Priority:	Medium Priority					
Timeline for Completion:	To Be Determined					
Potential Fund Sources:	Hazard Mitigation Planning Funds					
Local Planning Mechanisms to be Used in Implementation, if any:	N/A					
	Progress Report					
Action Status:	New					
Report of Progress:	N/A					

Table 4.3.Mitigation Action Matrix

#	Action	Priority	Goals Addressed	Hazards Addressed	Address Current Development	Address Future Development	Continued Compliance with NFIP
	Prevention Public Education						
1.7	NFIP Participation	High	3	Flooding			\checkmark
2.7	NFIP Participation	High	3	Flooding			\checkmark
3.3	Mutual Aid Agreement	High	2	RF, LF, DF, EQ, LSS, D, ET, ST, SWW, T, WF	~	~	
3.4	NFIP Participation	High	3	Flooding			✓
4.1	Community Safe Room	High	3	EQ, ET, ST, SWW, T	~	~	
6.2	Community Safe Room	High	3	EQ, ET, ST, SWW, T	✓	√	
7.1	Emergency Shelter	High	3	EQ, ET, ST, SWW, T	~	~	
7.2	Storm Drainage Improvements	High	3	RF	\checkmark	\checkmark	
7.3	Disaster Debris Clean Up/Street Maintenance	High	3	EQ, ST, SWW, T	✓		
8.1	Renovate 7 Bridges Road	High	3	RF	\checkmark		
8.2	Widen Box Culverts	High	3	RF	\checkmark		
8.3	Replace 8" CMP with Concrete Box Culverts	High	3	RF	✓		
8.4	Replace low water crossing with culverts	High	3	RF	✓		
9.2	Community Storm Shelter	Low	3	T, SWW, ST	✓		
10.1	Safe Room for School and Community	High	3	T, ST, SWW	\checkmark		
11.1	Community Safe Room	High	3	EQ, ET, ST, SWW, T	~		
12.1	Community Safe Room	Medium	3	EQ, ET, ST, SWW, T	~		
	Structure and Infrastructure Projects	•	•		•	•	
1.1	Outdoor Warning Siren	High	3	T, STT, SWW	✓	✓	✓
1.2	Backup power supply	High	3	EQ, SWW, T, ST	~	✓	
1.3	Portable Emergency Lighting	High	3	ST, SW, T, RF, EQ, WF	~	√	
1.4	Low Water Crossings	High	3	RF, ST, SWW	✓	\checkmark	

#	Action	Priority	Goals Addressed	Hazards Addressed	Address Current Development	Address Future Development	Continued Compliance with NFIP
1.5	Culvert Replacement	High	3	RF, ST	✓	✓	
1.6	Roadway Elevation	High	3	RF, ST, SWW	✓	✓	✓
1.7	NFIP Participation	High	3	Flooding			✓
2.1	New Fire Station	High	3	ET, ST, SW, T, WF, EQ, RF	~	\checkmark	
2.2	Severe Weather Alerts	Medium	3	ST, SW, T	\checkmark	\checkmark	\checkmark
2.3	Enhanced Emergency Sheltering	Medium	3	ET, ST, SW, T, RF, EQ	~	~	
2.4	Sugar Creek Lake Pump House Flood Protection	High	3	Flooding	✓		
2.5	Repair and update spillways and develop lake level management infrastructure to manage runoff from spillway	High	3	Flooding, DF	~		\checkmark
2.6	Stormwater Study and Improvements	High	3	Flooding	✓		
2.7	NFIP Participation	High	3	Flooding			✓
3.1	Outdoor Warning Siren	High	3	T, STT, SWW	✓	✓	
3.4	NFIP Participation	High	3	Flooding			\checkmark
4.1	Community Safe Room	High	3	EQ, ET, ST, SWW, T	✓	~	
5.1	Repair of well pump	High	3	D	✓	✓	
6.1	Outdoor warning siren	High	3	T, STT, SWW	✓	\checkmark	
6.2	Community Safe Room	High	3	EQ, ET, ST, SWW, T	~	~	
7.1	Emergency Shelter	High	3	EQ, ET, ST, SWW, T	~	~	
7.2	Storm Drainage Improvements	High	3	RF	✓	✓	
7.3	Disaster Debris Clean Up/Street Maintenance	High	3	EQ, ST, SWW, T	✓		
8.1	Renovate 7 Bridges Road	High	3	RF	✓		
8.2	Widen Box Culverts	High	3	RF	✓		
8.3	Replace 8" CMP with Concrete Box Culverts	High	3	RF	✓		
8.4	Replace low water crossing with culverts	High	3	RF	✓		
10.1	Safe Room for School and Community	High	3	T, ST, SWW	✓		
11.1	Community Safe Room	High	3	EQ, ET, ST, SWW, T	~		
11.2	Building Safety Devices	High	3	EQ, ST, SWW, T	~	~	

#	Action	Priority	Goals Addressed	Hazards Addressed	Address Current Development	Address Future Development	Continued Compliance with NFIP
	Natural Systems Protection						
1.5	Culvert Replacement	High	3	RF, ST	\checkmark	\checkmark	
1.7	NFIP Participation	High	3	Flooding			\checkmark
2.2	Severe Weather Alerts	Medium	3	ST, SW, T	\checkmark	✓	
2.7	NFIP Participation	High	3	Flooding			\checkmark
3.4	NFIP Participation	High	3	Flooding			\checkmark
	Emergency Services						
1.1	Outdoor Warning Siren	High	3	T, STT, SWW	\checkmark	\checkmark	\checkmark
1.2	Backup power supply	High	3	EQ, SWW, T, ST	~	✓	
1.3	Portable Emergency Lighting	High	3	ST, SW, T, RF, EQ, WF	~	✓	
1.4	Low Water Crossings	High	3	RF, ST, SWW	\checkmark	\checkmark	
1.6	Roadway Elevation	High	3	RF, ST, SWW	\checkmark	\checkmark	\checkmark
1.7	NFIP Participation	High	3	Flooding			\checkmark
2.1	New Fire Station	High	3	ET, ST, SW, T, WF, EQ, RF	~	✓	
2.3	Enhanced Emergency Sheltering	Medium	3	ET, ST, SW, T, RF, EQ	~	✓	
2.7	NFIP Participation	High	3	Flooding			\checkmark
3.1	Outdoor Warning Siren	High	3	T, STT, SWW	✓	✓	
3.3	Mutual Aid Agreement	High	2	RF, LF, DF, EQ, LSS, D, ET, ST, SWW, T, WF	~	~	
3.4	NFIP Participation	High	3	Flooding			✓
6.1	Outdoor warning siren	High	3	T, STT, SWW	✓	✓	
9.1	Generator Implication	Medium	3	EQ, ET, ST, SWW, T	~	✓	
9.2	Community Safe Room	Low	3	T, SWW, ST	✓		
	Education and Outreach	•	•		•	•	•
1.7	NFIP Participation	High	3	Flooding			✓
2.7	NFIP Participation	High	3	Flooding			✓

#	Action	Priority	Goals Addressed	Hazards Addressed	Address Current Development	Address Future Development	Continued Compliance with NFIP
3.2	Storm Education	Medium	1	EQ, LSS, ET, ST, SWW, T, WF	~	~	
3.4	NFIP Participation	High	3	Flooding			\checkmark