

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 Marion County’s existing hazard mitigation plan approved by FEMA on September 27, 2016. Therefore, the goals from the 2016 Marion 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.

Goal 1: Protect the lives and livelihoods of all the citizens

Goal 2: Decrease the impact of natural hazards

Goal 3: Ensure continued operation of government and emergency function in a disaster

It was determined the broadly stated goals were still valid for the 2021 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.

During the Planning Meeting the mitigation strategy was reviewed. For a comprehensive range of mitigation actions to consider^{7(a)}, the MPC reviewed the following information during the Planning Meeting:

- 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 the Planning Meeting, 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 C of this plan. During the Planning Meeting, the list of actions for each jurisdiction was provided the 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 1 completed actions, 3 continuing actions (either ongoing or modified), and 20 deleted actions.

Table 4.1. Action Status Summary

Jurisdiction	Completed Actions	Continuing Actions (ongoing or modify)	Deleted Actions
Marion County	1	2	11
City of Hannibal	0	0	9
City of Palmyra	0	0	0
Palmyra School District	0	1	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)
Marion County	
Identify populated areas for warning siren	2021, \$22,000, FEMA
Deleted Actions	
Reason for Deletion	
Marion County	
Promote NOAA Radio Use	Action was determined to be an everyday item.
Continue to enforce floodplain ordinance	Action was determined to be an everyday item.
Weather spotters training meetings	Action was determined to be an everyday item.
Inspect levies	Action was determined to be an everyday item.
Participate in mock disaster/emergency exercises	Action was determined to be an everyday item.
Urge landowners to inspect dams	Action was determined to be an everyday item.
Urge schools to educate on earthquake safety	Action was determined to be an everyday item.
Review land use ordinances	Action was determined to be an everyday item.
Generators for after event shelters	Action was determined to be an everyday item.
Provide floodplain maps	Action was determined to be an everyday item.
Promote drought resistant farming	Action was determined to be an everyday item.
City of Hannibal	
Promote NOAA Radio Use	Action was determined to be an everyday item.
Continue to enforce floodplain ordinance.	Action was determined to be an everyday item.
Weather spotters training meetings	Action was determined to be an everyday item.
Inspect levies	Action was determined to be an everyday item.
Participate in mock disaster/emergency exercises	Action was determined to be an everyday item.
Urge landowners to inspect dams	Action was determined to be an everyday item.
Urge schools to educate on earthquake safety	Action was determined to be an everyday item.
Review land use ordinances	Action was determined to be an everyday item.
Generators for after event shelters	Action was determined to be an everyday item.

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^{7(a)}. 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 __. 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 future tracking purposes. This can be a combination of the jurisdiction name, followed by the goal number and action number (i.e. Joplin1.1)	
Name of Action or Project:		
Mitigation Category:	Prevention; Structure and Infrastructure Projects; Natural Systems Protection; Education and Outreach; Emergency Services	
STAPLEE Criteria		Score
Evaluation Rating Definitely YES = 3 Maybe YES = 2 Probably NO = 1 Definitely NO = 0		
S: Is it Socially Acceptable		
T: Is it Technically feasible and potentially successful?		
A: Does the jurisdiction have the Administrative capacity to execute this action?		
P: Is it Politically acceptable?		
L: Is there Legal authority to implement?		
E: Is it Economically beneficial?		
E: Will the project have either a neutral or positive impact on the natural Environment ?		
Will historic structures be saved or protected?		
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)		
<input type="checkbox"/> High Priority (30+ points)	<input type="checkbox"/> Medium Priority (25 - 29 points)	<input type="checkbox"/> Low Priority (<25 points)

Completed by
(Name, Title, Phone Number) _____

ACTION WORKSHEET

Action Worksheet	
Name of Jurisdiction:	
Risk / Vulnerability	
Hazard(s) Addressed:	List the hazard or hazards that will be addressed by this action
Problem being Mitigated:	Provide a brief description of the problem that the action will address. Utilize the problem statement developed in the risk assessment.
Action or Project	
Applicable Goal Statement:	Choose the goal statement that applies to this action
Action/Project Number:	Insert a unique action number for this action for future tracking purposes. This can be a combination of the jurisdiction name, followed by the goal number and action number (i.e. Joplin1.1)
Name of Action or Project:	
Mitigation Category:	Prevention; Structure and Infrastructure Projects; Natural Systems Protection; Education and Outreach; Emergency Services
Action or Project Description:	Describe the action or project.
Estimated Cost:	Provide an estimate of the cost to implement this action. This can be accomplished with a range of estimated costs.
Benefits:	Provide a narrative describing the losses that will be avoided by implementing this action. If dollar amounts of avoided losses are known, include them as well.
Plan for Implementation	
Responsible Organization/Department:	Which organization will be responsible for tracking this action? Be specific to include the specific department or position within a department.
Supporting Organization/Department:	Which organization/department will assist in implementation of this action?
Action/Project Priority:	Include the STAPLEE score and Priority (H, M, L)
Timeline for Completion:	How many months/years to complete.
Potential Fund Sources:	List specific funding sources that may be used to pay for the implementation of the action.
Local Planning Mechanisms to be Used in Implementation, if any:	
Progress Report	
Action Status:	Indicate status as New, Continuing Not Started, or Continuing in Progress)
Report of Progress:	For Continuing actions only, indicate the report on progress. If the action is not started, indicate any barriers encountered to initiate the action. If the action is in progress, indicate the activity that has occurred to date.

Action Worksheet	
Name of Jurisdiction:	Marion County
Risk / Vulnerability	
Hazard(s) Addressed:	All Hazards
Problem being Mitigated:	Provide early warning to residents
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens.
Action/Project Number:	Marion County 2021.1
Name of Action or Project:	Installation/Upgrade Siren
Mitigation Category:	Emergency Services, Prevention, Structure and Infrastructure Projects
Action or Project Description:	Installation or the upgrade of warning sirens in areas of the County needing a siren or the siren upgraded.
Estimated Cost:	\$50,000
Benefits:	With adequate time for warning of storms, residents are able to seek cover to help minimize the loss of life.
Plan for Implementation	
Responsible Organization/Department:	County Commission
Supporting Organization/Department:	Emergency Management Director
Action/Project Priority:	High
Timeline for Completion:	1 – 5 years
Potential Fund Sources:	Hazard Mitigation Grant Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	Continued
Report of Progress:	One siren has been funded and will need additional sirens in the County.

Action Worksheet	
Name of Jurisdiction:	Marion County
Risk / Vulnerability	
Hazard(s) Addressed:	Flooding
Problem being Mitigated:	NFIP participation continuation
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards.
Action/Project Number:	Marion County 2021.2
Name of Action or Project:	NFIP Participation
Mitigation Category:	Natural Systems Protection, Emergency Services, Prevention, Structure and Infrastructure Projects, Education and Outreach
Action or Project Description:	Continue Marion County participation and good standing in the National Flood Insurance Program by adoption and enforcement of floodplain management requirements
Estimated Cost:	\$50,000
Benefits:	Protection of life and reduction of damages due to accessibility to citizens in times of need.
Plan for Implementation	
Responsible Organization/Department:	County Commission
Supporting Organization/Department:	Emergency Management Direct
Action/Project Priority:	High
Timeline for Completion:	1 year
Potential Fund Sources:	County Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New

Action Worksheet	
Name of Jurisdiction:	Marion County
Risk / Vulnerability	
Hazard(s) Addressed:	Flooding
Problem being Mitigated:	Flooding throughout the County
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards.
Action/Project Number:	Marion County 2021.3
Name of Action or Project:	Flood Mitigation
Mitigation Category:	Prevention, Structure and Infrastructure, Emergency Services
Action or Project Description:	Implement flood mitigation activities to eliminate effects on County residents. Enhancement of existing floodwalls/dams/levees, and installation of new flood walls/dams/levees at necessary locations determined by past flooding events and floodplain maps.
Estimated Cost:	\$1,000,000
Benefits:	Mitigation actions will limit the future harm to structures and lives in the County.
Plan for Implementation	
Responsible Organization/Department:	County Commission
Supporting Organization/Department:	Emergency Management Direct
Action/Project Priority:	High
Timeline for Completion:	1 year
Potential Fund Sources:	Hazard Mitigation Funds, County Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New

Action Worksheet	
Name of Jurisdiction:	Marion County
Risk / Vulnerability	
Hazard(s) Addressed:	Flooding, Severe Thunderstorms, Winter Weather
Problem being Mitigated:	Accessibility for emergency services/evacuation routes.
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards. Goal 3: Ensure continued operation of government and emergency function in a disaster.
Action/Project Number:	Marion County 2021.4
Name of Action or Project:	Maintain Transportation Infrastructure
Mitigation Category:	Prevention, Structure and Infrastructure Projects, Emergency Services
Action or Project Description:	Project will make necessary improvements to roads, culverts, low water crossings, road elevations, bank stabilizations, bridges and the general transportation infrastructure throughout the county.
Estimated Cost:	\$750,000
Benefits:	The project protects citizens from harm due to damaged transportation infrastructure.
Plan for Implementation	
Responsible Organization/Department:	Marion County Commission
Supporting Organization/Department:	Emergency Management Direct
Action/Project Priority:	Medium
Timeline for Completion:	1-5 years
Potential Fund Sources:	MoDOT; CDBG, Hazard Mitigation Grant Funds
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	New
Report of Progress:	New Project

Action Worksheet	
Name of Jurisdiction:	Marion County
Risk / Vulnerability	
Hazard(s) Addressed:	Pandemic
Problem being Mitigated:	Protecting outbreaks from affecting residents.
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards. Goal 3: Ensure continued operation of government and emergency function in a disaster.
Action/Project Number:	Marion County 2021.5
Name of Action or Project:	Response to Pandemic
Mitigation Category:	Emergency Services, Prevention, Public Education
Action or Project Description:	Project will provide necessary resources for the response to pandemic outbreaks.
Estimated Cost:	\$300,000
Benefits:	The project protects citizens from harm due to pandemic outbreaks
Plan for Implementation	
Responsible Organization/Department:	Marion County Commission
Supporting Organization/Department:	Emergency Management Direct
Action/Project Priority:	High
Timeline for Completion:	1-5 years
Potential Fund Sources:	Hazard Mitigation Grant Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New Project

Action Worksheet	
Name of Jurisdiction:	Marion County
Risk / Vulnerability	
Hazard(s) Addressed:	Severe Thunderstorms, Tornadoes or Wind Storms
Problem being Mitigated:	Lack of shelter for residents
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards. Goal 3: Ensure continued operation of government and emergency function in a disaster.
Action/Project Number:	Marion County 2021.6
Name of Action or Project:	Safe Room and Storm Shelters
Mitigation Category:	Emergency Services, Prevention, Structure and Infrastructure Projects
Action or Project Description:	Build safe rooms and establish local ordinances requiring community storm shelters throughout the county.
Estimated Cost:	\$2M
Benefits:	The project protects citizens from harm due to tornados or severe thunderstorms.
Plan for Implementation	
Responsible Organization/Department:	Marion County Commission
Supporting Organization/Department:	Emergency Management Director
Action/Project Priority:	High
Timeline for Completion:	5 years
Potential Fund Sources:	Hazard Mitigation Grant Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New Project

Action Worksheet	
Name of Jurisdiction:	Marion County
Risk / Vulnerability	
Hazard(s) Addressed:	Extreme Temperature, Severe Thunderstorm, Severe Winter Weather, Tornado
Problem being Mitigated:	Loss of electrical power to emergency shelters/critical facilities
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards.
Action/Project Number:	Marion County 2021.7
Name of Action or Project:	Generator for Shelters/critical facilities
Mitigation Category:	Prevention, Structure and Infrastructure Projects, Emergency Services
Action or Project Description:	Obtain a generator for shelters as funds become available.
Estimated Cost:	\$65,000
Benefits:	Generator will allow for continues use of shelters/critical facilities for service to citizens in the event of an outage, this would be beneficial during any hazard.
Plan for Implementation	
Responsible Organization/Department:	Marion County Commission
Supporting Organization/Department:	Emergency Management Director
Action/Project Priority:	High
Timeline for Completion:	1 year
Potential Fund Sources:	Hazard Mitigation Grant Funds/RHSOC
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New Project

Action Worksheet	
Name of Jurisdiction:	Marion County
Risk / Vulnerability	
Hazard(s) Addressed:	Tornado, Severe Thunderstorms,
Problem being Mitigated:	Transportation routes can be disrupted by debris caused by natural disasters.
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards.
Action/Project Number:	Marion County 2021.8
Name of Action or Project:	Debris Removal
Mitigation Category:	Structure and Infrastructure
Action or Project Description:	Mitigate the risk to life and property and promote continued operation of government and emergency functions by regularly removing debris as needed along transportation routes and drainage systems.
Estimated Cost:	\$500,000
Benefits:	The project protects citizens from debris comprising the transportation system.
Plan for Implementation	
Responsible Organization/Department:	Road and Bridge Department
Supporting Organization/Department:	Emergency Management Direct
Action/Project Priority:	High
Timeline for Completion:	1-5 years
Potential Fund Sources:	Hazard Mitigation Grant Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New Project

ACTION WORKSHEET

Action Worksheet	
Name of Jurisdiction:	Marion County
Risk / Vulnerability	
Hazard(s) Addressed:	High winds, winter storms, flooding.
Problem being Mitigated:	Residents and businesses with no electricity high winds, winter storms and flooding
Action or Project	
Applicable Goal Statement:	Goal 2: Decrease the impact of natural hazards.
Action/Project Number:	Marion County 2021.9
Name of Action or Project:	Mitigating the loss of electricity
Mitigation Category:	Prevention
Action or Project Description:	Partner with electric cooperatives throughout the county to rebuild sections of overhead power lines utilizing heavier construction, stronger poles, shorter spans and/or higher clearances to provide more resilience for the electric service in the event of high winds, winter storms and flooding.
Estimated Cost:	\$20,000,000
Benefits:	Residents and business will no longer feel the affects of a power outage.
Plan for Implementation	
Responsible Organization/Department:	County Commission
Supporting Organization/Department:	Emergency Management Director
Action/Project Priority:	High
Timeline for Completion:	2022- 2024
Potential Fund Sources:	N/A
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan, Emergency Management Coordinator
Progress Report	
Action Status:	New
Report of Progress:	New

Action Worksheet	
Name of Jurisdiction:	Palmyra R-1 School District
Risk / Vulnerability	
Hazard(s) Addressed:	Severe Thunderstorms, Tornadoes or Wind Storms
Problem being Mitigated:	Lack of shelter for residents
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens.
Action/Project Number:	Palmyra R-1 2021.1
Name of Action or Project:	Safe Room and Storm Shelters
Mitigation Category:	Emergency Services, Prevention, Structure and Infrastructure Projects
Action or Project Description:	Build safe rooms
Estimated Cost:	\$2M
Benefits:	The project protects citizens from harm due to tornados or severe thunderstorms.
Plan for Implementation	
Responsible Organization/Department:	Palmyra R-1 Superintendent
Supporting Organization/Department:	School Board
Action/Project Priority:	High
Timeline for Completion:	5 years
Potential Fund Sources:	Hazard Mitigation Grant Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New Project

Action Worksheet	
Name of Jurisdiction:	Palmyra R-1 School District
Risk / Vulnerability	
Hazard(s) Addressed:	Extreme Temperature, Severe Thunderstorm, Severe Winter Weather, Tornado
Problem being Mitigated:	Loss of electrical power to school
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens.
Action/Project Number:	Palmyra R-1 2021.2
Name of Action or Project:	Generator for school buildings
Mitigation Category:	Prevention, Structure and Infrastructure Projects, Emergency Services
Action or Project Description:	Obtain a generator for shelters as funds become available.
Estimated Cost:	\$65,000
Benefits:	Generator will allow for continue use of school facilities in the event of an outage, this would be beneficial during any hazard.
Plan for Implementation	
Responsible Organization/Department:	Palmyra R-1 Superintendent
Supporting Organization/Department:	School Board
Action/Project Priority:	High
Timeline for Completion:	1 year
Potential Fund Sources:	Hazard Mitigation Grant Funds/RHSOC
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New Project

Action Worksheet	
Name of Jurisdiction:	City of Palmyra
Risk / Vulnerability	
Hazard(s) Addressed:	Flooding
Problem being Mitigated:	NFIP participation continuation
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards.
Action/Project Number:	Palmyra 2021.1
Name of Action or Project:	NFIP Participation
Mitigation Category:	Natural Systems Protection, Emergency Services, Prevention, Structure and Infrastructure Projects, Education and Outreach
Action or Project Description:	Continue City of Palmyra participation and good standing in the National Flood Insurance Program by adoption and enforcement of floodplain management requirements
Estimated Cost:	\$50,000
Benefits:	Protection of life and reduction of damages due to accessibility to citizens in times of need.
Plan for Implementation	
Responsible Organization/Department:	Mayor
Supporting Organization/Department:	City Council
Action/Project Priority:	High
Timeline for Completion:	1 year
Potential Fund Sources:	City Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	Continue
Report of Progress:	Continue

Action Worksheet	
Name of Jurisdiction:	City of Palmyra
Risk / Vulnerability	
Hazard(s) Addressed:	Flooding, Severe Thunderstorms, Winter Weather
Problem being Mitigated:	Accessibility for emergency services/evacuation routes.
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards. Goal 3: Ensure continued operation of government and emergency function in a disaster.
Action/Project Number:	Palmyra 2021.2
Name of Action or Project:	Maintain Transportation Infrastructure
Mitigation Category:	Prevention, Structure and Infrastructure Projects, Emergency Services
Action or Project Description:	Project will make necessary improvements to roads, culverts, low water crossings, road elevations, bank stabilizations, bridges and the general transportation infrastructure throughout the city.
Estimated Cost:	\$750,000
Benefits:	The project protects citizens from harm due to damaged transportation infrastructure.
Plan for Implementation	
Responsible Organization/Department:	Mayor
Supporting Organization/Department:	City Council
Action/Project Priority:	Medium
Timeline for Completion:	1-5 years
Potential Fund Sources:	MoDOT; CDBG, Hazard Mitigation Grant Funds
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	New
Report of Progress:	New Project

Action Worksheet	
Name of Jurisdiction:	City of Palmyra
Risk / Vulnerability	
Hazard(s) Addressed:	All Hazards
Problem being Mitigated:	Provide early warning to residents
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens.
Action/Project Number:	Palmyra 2021.3
Name of Action or Project:	Installation/Upgrade Siren
Mitigation Category:	Emergency Services, Prevention, Structure and Infrastructure Projects
Action or Project Description:	Installation or the upgrade of warning sirens in areas of the City needing a siren or the siren upgraded.
Estimated Cost:	\$50,000
Benefits:	With adequate time for warning of storms, residents are able to seek cover to help minimize the loss of life.
Plan for Implementation	
Responsible Organization/Department:	Mayor
Supporting Organization/Department:	City Council
Action/Project Priority:	High
Timeline for Completion:	1 – 5 years
Potential Fund Sources:	Hazard Mitigation Grant Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New

Action Worksheet	
Name of Jurisdiction:	City of Palmyra
Risk / Vulnerability	
Hazard(s) Addressed:	Extreme Temperature, Severe Thunderstorm, Severe Winter Weather, Tornado
Problem being Mitigated:	Loss of electrical power to water treatment facility, water wells, City Hall, and the Police Station.
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards. Goal 3: Ensure continued operation of government and emergency function in a disaster.
Action/Project Number:	Palmyra 2021.4
Name of Action or Project:	Generator for Water Facility, Water Wells, Palmyra City Hall and Palmyra Police Station.
Mitigation Category:	Prevention, Structure and Infrastructure Projects, Emergency Services
Action or Project Description:	Assist water treatment facility with emergency power back-up power source as needed. Assist with emergency power to the wells that hold the water pumped to the water plant to be treated and distributed to residents. Assist with emergency power to City Hall and the Police Station for a back up power source as needed to assist emergency crews.
Estimated Cost:	\$327,000.00
Benefits:	Generator will allow the continuation of water to the residents in the event of an outage. Generator will allow the well water to continue to pump into the treatment plant for residents. Generators will allow City Hall and the Police Station to act as emergency headquarters in the event it is needed. It will allow residents to have access to the Police Station in the event of an emergency. All will be beneficial during any hazard
Plan for Implementation	
Responsible Organization/Department:	Mayor
Supporting Organization/Department:	City Council
Action/Project Priority:	High
Timeline for Completion:	1 year
Potential Fund Sources:	Hazard Mitigation Grant Funds/RHSOC
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New Project

Action Worksheet	
Name of Jurisdiction:	South River Drainage District
Risk / Vulnerability	
Hazard(s) Addressed:	Flooding, Levee Failure
Problem being Mitigated:	Flooding in Drainage District that could impact the structural integrity of levees
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards. Goal 3: Ensure continued operation of government and emergency function in a disaster.
Action/Project Number:	South River 2021.1
Name of Action or Project:	Flood and Levee Mitigation
Mitigation Category:	Prevention, Structure and Infrastructure Projects, Emergency Services
Action or Project Description:	Implement flood mitigation activities to eliminate effects on drainage district residents by inspecting levees annually, obtain the inspection report, and implement suggestions/repair deficiencies provided in the inspection report.
Estimated Cost:	\$200,000 – \$1,000,000
Benefits:	Mitigation actions will limit the future harm to structures and lives in the drainage district.
Plan for Implementation	
Responsible Organization/Department:	South River Drainage District Superintendent
Supporting Organization/Department:	Emergency Management Director
Action/Project Priority:	High
Timeline for Completion:	1 year
Potential Fund Sources:	Hazard Mitigation Grant Funds, Drainage District Assessment, Special Assessment, Tax Warrants, Bonds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New Project

Action Worksheet	
Name of Jurisdiction:	Fabius Drainage District
Risk / Vulnerability	
Hazard(s) Addressed:	Flooding, Levee Failure
Problem being Mitigated:	If conditions of the Fabius River Drainage District are not maintained, the structural integrity of the levee will be threatened. A breach of the levee results in devastating loses for the levee protected area.
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards. Goal 3: Ensure continued operation of government and emergency function in a disaster.
Action/Project Number:	Fabius 2021.1
Name of Action or Project:	Flood and Levee Mitigation
Mitigation Category:	Prevention, Structure and Infrastructure Projects, Emergency Services
Action or Project Description:	Implement flood mitigation activities to eliminate effects on drainage district residents by working with the Army Corps of Engineers to inspect levees annually, obtain the inspection report, and implement suggestions/repair deficiencies provided in the inspection report.
Estimated Cost:	\$200,000 – \$1,000,000
Benefits:	Mitigation actions will limit the future harm to structures and lives in the drainage district.
Plan for Implementation	
Responsible Organization/Department:	Fabius Drainage District Superintendent
Supporting Organization/Department:	US Army Corps of Engineers, Emergency Management Director
Action/Project Priority:	High
Timeline for Completion:	1 year
Potential Fund Sources:	Hazard Mitigation Grant Funds, Drainage District Assessment, Special Assessment, Tax Warrants, Bonds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New Project

Action Worksheet	
Name of Jurisdiction:	Marion County R-2 School District
Risk / Vulnerability	
Hazard(s) Addressed:	Severe Thunderstorms, Tornadoes or Wind Storms
Problem being Mitigated:	Lack of shelter for residents
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens.
Action/Project Number:	Marion County R-2 2021.1
Name of Action or Project:	Safe Room and Storm Shelters
Mitigation Category:	Emergency Services, Prevention, Structure and Infrastructure Projects
Action or Project Description:	Build safe rooms
Estimated Cost:	\$2M
Benefits:	The project protects citizens from harm due to tornados or severe thunderstorms.
Plan for Implementation	
Responsible Organization/Department:	Marion County R-2 Superintendent
Supporting Organization/Department:	School Board
Action/Project Priority:	High
Timeline for Completion:	5 years
Potential Fund Sources:	Hazard Mitigation Grant Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New Project

Action Worksheet	
Name of Jurisdiction:	Northeast Missouri Emergency Communications Center 911
Risk / Vulnerability	
Hazard(s) Addressed:	All Hazards
Problem being Mitigated:	Inability to Communicate with emergency personnel throughout County
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards. Goal 3: Ensure continued operation of government and emergency function in a disaster.
Action/Project Number:	NMECC 2021.1
Name of Action or Project:	Emergency Communications
Mitigation Category:	Emergency Services
Action or Project Description:	Implement communication ability with all stakeholders for emergency communication response.
Estimated Cost:	\$1,000,000
Benefits:	Communication among all stakeholders and emergency personnel can occur
Plan for Implementation	
Responsible Organization/Department:	NMECC Executive Director
Supporting Organization/Department:	Emergency Management Direct
Action/Project Priority:	High
Timeline for Completion:	1 year
Potential Fund Sources:	Hazard Mitigation Grant Funds, Tax Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New Project

Action Worksheet	
Name of Jurisdiction:	Marion County Ambulance District
Risk / Vulnerability	
Hazard(s) Addressed:	All Hazards
Problem being Mitigated:	Inability to Communicate with emergency personnel throughout County
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards. Goal 3: Ensure continued operation of government and emergency function in a disaster.
Action/Project Number:	Marion Ambulance 2021.1
Name of Action or Project:	Emergency Communications
Mitigation Category:	Prevention, Structure and Infrastructure Projects, Emergency Services
Action or Project Description:	Implement communication ability with all stakeholders for emergency communication response.
Estimated Cost:	\$1,000,000
Benefits:	Communicate with all emergency personnel throughout County
Plan for Implementation	
Responsible Organization/Department:	Chief
Supporting Organization/Department:	Emergency Management Director
Action/Project Priority:	High
Timeline for Completion:	1 year
Potential Fund Sources:	Hazard Mitigation Grant Funds, Tax Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New Project

Action Worksheet	
Name of Jurisdiction:	City of Hannibal
Risk / Vulnerability	
Hazard(s) Addressed:	Flooding
Problem being Mitigated:	Flooding throughout the City
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards.
Action/Project Number:	City of Hannibal 2021.1
Name of Action or Project:	Flood Mitigation
Mitigation Category:	Prevention, Structure and Infrastructure, Emergency Services
Action or Project Description:	Implement flood mitigation activities to eliminate effects on City residents. Enhancement of existing floodwalls/dams/levees, and installation of new flood walls/dams/levees at necessary locations determined by past flooding events and floodplain maps.
Estimated Cost:	\$1,000,000
Benefits:	Mitigation actions will limit the future harm to structures and lives in the City.
Plan for Implementation	
Responsible Organization/Department:	City Administrator
Supporting Organization/Department:	City Council
Action/Project Priority:	High
Timeline for Completion:	1 year
Potential Fund Sources:	Hazard Mitigation Funds, EDA Disaster Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New

Action Worksheet	
Name of Jurisdiction:	City of Hannibal
Risk / Vulnerability	
Hazard(s) Addressed:	Flooding, Severe Thunderstorms, Winter Weather
Problem being Mitigated:	Accessibility for emergency services/evacuation routes.
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards. Goal 3: Ensure continued operation of government and emergency function in a disaster.
Action/Project Number:	City of Hannibal 2021.2
Name of Action or Project:	Maintain Transportation Infrastructure
Mitigation Category:	Prevention, Structure and Infrastructure Projects, Emergency Services
Action or Project Description:	Project will make necessary improvements to roads, culverts, low water crossings, road elevations, bank stabilizations, bridges and the general transportation infrastructure throughout the city.
Estimated Cost:	\$750,000
Benefits:	The project protects citizens from harm due to damaged transportation infrastructure.
Plan for Implementation	
Responsible Organization/Department:	City Administrator
Supporting Organization/Department:	City Council
Action/Project Priority:	Medium
Timeline for Completion:	1-5 years
Potential Fund Sources:	MoDOT; CDBG, Hazard Mitigation Grant Funds
Local Planning Mechanisms to be Used in Implementation, if any:	N/A
Progress Report	
Action Status:	New
Report of Progress:	New Project

Action Worksheet	
Name of Jurisdiction:	City of Hannibal
Risk / Vulnerability	
Hazard(s) Addressed:	Flooding
Problem being Mitigated:	NFIP participation continuation
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens. Goal 2: Decrease the impact of natural hazards.
Action/Project Number:	City of Hannibal 2021.3
Name of Action or Project:	NFIP Participation
Mitigation Category:	Natural Systems Protection, Emergency Services, Prevention, Structure and Infrastructure Projects, Education and Outreach
Action or Project Description:	Continue City of Hannibal's participation and good standing in the National Flood Insurance Program by adoption and enforcement of floodplain management requirements
Estimated Cost:	\$50,000
Benefits:	Protection of life and reduction of damages due to accessibility to citizens in times of need.
Plan for Implementation	
Responsible Organization/Department:	Mayor
Supporting Organization/Department:	City Council
Action/Project Priority:	High
Timeline for Completion:	1 year
Potential Fund Sources:	City Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	Continue
Report of Progress:	Continue

Action Worksheet	
Name of Jurisdiction:	City of Hannibal
Risk / Vulnerability	
Hazard(s) Addressed:	All Hazards
Problem being Mitigated:	Provide early warning to residents
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens.
Action/Project Number:	City of Hannibal 2021.4
Name of Action or Project:	Installation/Upgrade Siren
Mitigation Category:	Emergency Services, Prevention, Structure and Infrastructure Projects
Action or Project Description:	Installation or the upgrade of warning sirens in areas of the City of Hannibal needing a siren or the siren upgraded.
Estimated Cost:	\$224,000
Benefits:	With adequate time for warning of storms, residents are able to seek cover to help minimize the loss of life.
Plan for Implementation	
Responsible Organization/Department:	Mayor
Supporting Organization/Department:	City Council
Action/Project Priority:	High
Timeline for Completion:	1-3 year
Potential Fund Sources:	Hazard Mitigation Grant Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New Project

Action Worksheet	
Name of Jurisdiction:	Hannibal School District #60
Risk / Vulnerability	
Hazard(s) Addressed:	Severe Thunderstorms, Tornadoes or Wind Storms
Problem being Mitigated:	Lack of shelter for residents
Action or Project	
Applicable Goal Statement:	Goal 1: Protect the lives and livelihoods of all the citizens.
Action/Project Number:	Hannibal School 2021.1
Name of Action or Project:	Safe Room and Storm Shelters
Mitigation Category:	Emergency Services, Prevention, Structure and Infrastructure Projects
Action or Project Description:	Build safe rooms
Estimated Cost:	\$2M
Benefits:	The project protects citizens from harm due to tornados or severe thunderstorms.
Plan for Implementation	
Responsible Organization/Department:	Hannibal School Superintendent
Supporting Organization/Department:	School Board
Action/Project Priority:	High
Timeline for Completion:	5 years
Potential Fund Sources:	Hazard Mitigation Grant Funds
Local Planning Mechanisms to be Used in Implementation, if any:	NA
Progress Report	
Action Status:	New
Report of Progress:	New Project

Table 4.3. Mitigation Action Matrix

#	Action	Jurisdiction	Priority	Goals Addressed	Hazards Addressed	Address Current Development	Address Future Development	Continued Compliance with NFIP
Prevention Public Education								
Marion County 2021.1	Installation/Upgrade Sirens	Marion County	High	1	All Hazards	✓	✓	
Marion County 2021.3	Flood Mitigation	Marion County	High	1, 2	Flooding	✓	✓	
Marion County 2021.4	Maintain Transportation Infrastructure	Marion County	Medium	1, 2, 3	Flooding, Severe Thunderstorms, Winter Weather	✓	✓	
Marion County 2021.5	Response to Pandemic	Marion County	High	1, 2, 3	Pandemic	✓		
Marion County 2021.6	Safe Room and Storm Shelters	Marion County	High	1, 2, 3	Severe Thunderstorms, Tornadoes, Wind Storm	✓		
Marion County 2021.7	Generator for Shelters/ Critical Facilities	Marion County	High	1, 2	Extreme Temperature, Severe Thunderstorms, Severe Winter Weather, Tornado	✓		
Marion County 2021.8	Debris Removal	Marion County	High	1, 2	Tornado, Severe Thunderstorm	✓		
Palmyra 2021.2	Maintain Transportation Infrastructure	City of Palmyra	Medium	1, 2, 3	Flooding, Severe Thunderstorm, Winter Weather	✓	✓	
Palmyra 2021.3	Installation/Upgrade Sirens	City of Palmyra	High	1	All Hazards	✓		
Palmyra 2021.4	Generator for Water Facility	City of Palmyra	High	1, 2,3	Extreme Temperature, Severe Thunderstorm, Severe Winter Weather, Tornado	✓		

#	Action	Jurisdiction	Priority	Goals Addressed	Hazards Addressed	Address Current Development	Address Future Development	Continued Compliance with NFIP
Palmyra School 2021.7	Safe Room and Storm Shelter	Palmyra R-1	High	1	Severe Thunderstorms, Tornadoes, Wind Storms	✓		
Palmyra School 2021.8	Generator for School Buildings	Palmyra R-1	High	1	Extreme Temperature, Severe Thunderstorm, Severe Winter Weather, Tornado	✓		
Marion County R-2 2021.1	Safe Room and Storm Shelters	Marion County R-2	High	1	Severe Thunderstorm, Tornadoes, Wind Storms	✓		
South River DD 2021.1	Flood and Levee Mitigation	South River Drainage District	High	1, 2, 3	Flood, Levee Failure	✓		
Fabius DD 2021.1	Flood and Levee Mitigation	Fabius Drainage District	High	1, 2, 3	Flood, Levee Failure	✓		
NECOMM 2021.1	Emergency Communications	NECOMM	High	1, 2 3	All Hazards	✓		
Marion Ambulance 2021.1	Emergency Communications	Marion County Ambulance	High	1, 2 3	All Hazards	✓		
Hannibal 2021.1	Flood Mitigation	City of Hannibal	High	1,2,3	Flood	✓		
Hannibal 2021.2	Maintain Transportation Infrastructure	City of Hannibal	High	1,2	Flooding, Severe Thunderstorm, Winter Weather	✓	✓	
Hannibal School 2021.7	Safe Room and Storm Shelter	Hannibal School	High	1	Severe Thunderstorms, Tornadoes, Wind Storms	✓		
Structure and Infrastructure Projects								
Marion County 2021.2	NFIP Participation	Marion County	High	1,2	Flooding	✓		✓
Palmyra 2021.1	NFIP Participation	City of Palmyra	High	1, 2	Flooding	✓		✓

#	Action	Jurisdiction	Priority	Goals Addressed	Hazards Addressed	Address Current Development	Address Future Development	Continued Compliance with NFIP
Marion County 2021.1	Installation/Upgrade Sirens	Marion County	High	1	All Hazards	✓	✓	
Marion County 2021.3	Flood Mitigation	Marion County	High	1, 2	Flooding	✓	✓	
Marion County 2021.4	Maintain Transportation Infrastructure	Marion County	Medium	1, 2, 3	Flooding, Severe Thunderstorms, Winter Weather	✓	✓	
Marion County 2021.5	Response to Pandemic	Marion County	High	1, 2, 3	Pandemic	✓		
Marion County 2021.6	Safe Room and Storm Shelters	Marion County	High	1, 2, 3	Severe Thunderstorms, Tornadoes, Wind Storm	✓		
Marion County 2021.7	Generator for Shelters/ Critical Facilities	Marion County	High	1, 2	Extreme Temperature, Severe Thunderstorms, Severe Winter Weather, Tornado	✓		
Marion County 2021.8	Debris Removal	Marion County	High	1, 2	Tornado, Severe Thunderstorm	✓		
Palmyra 2021.2	Maintain Transportation Infrastructure	City of Palmyra	Medium	1, 2, 3	Flooding, Severe Thunderstorm, Winter Weather	✓	✓	
Palmyra 2021.3	Installation/Upgrade Sirens	City of Palmyra	High	1	All Hazards	✓		
Palmyra 2021.4	Generator for Water Facility	City of Palmyra	High	1, 2,3	Extreme Temperature, Severe Thunderstorm, Severe Winter Weather, Tornado	✓		
Marion County R-2 2021.1	Safe Room and Storm Shelters	Marion County R-2	High	1	Severe Thunderstorm, Tornadoes, Wind Storms	✓		

#	Action	Jurisdiction	Priority	Goals Addressed	Hazards Addressed	Address Current Development	Address Future Development	Continued Compliance with NFIP
South River DD 2021.1	Flood and Levee Mitigation	South River Drainage District	High	1, 2, 3	Flood, Levee Failure	✓		
Fabius DD 2021.1	Flood and Levee Mitigation	Fabius Drainage District	High	1, 2, 3	Flood, Levee Failure	✓		
Palmyra School 2021.7	Safe Room and Storm Shelter	Palmyra R-1	High	1	Severe Thunderstorms, Tornadoes, Wind Storms	✓		
Palmyra School 2021.8	Generator for School Buildings	Palmyra R-1	High	1	Extreme Temperature, Severe Thunderstorm, Severe Winter Weather, Tornado	✓		
Hannibal 2021.1	Flood Mitigation	City of Hannibal	High	1,2,3	Flood	✓		
Hannibal 2021.2	Maintain Transportation Infrastructure	City of Hannibal	High	1,2	Flooding, Severe Thunderstorm, Winter Weather	✓	✓	
Hannibal 2021.3	NFIP Participation	City of Hannibal	High	1, 2	Flooding	✓		✓
Hannibal School 2021.7	Safe Room and Storm Shelter	Hannibal School	High	1	Severe Thunderstorms, Tornadoes, Wind Storms	✓		
Natural Systems Protection								
Marion County 2021.2	NFIP Participation	Marion County	High	1,2	Flooding	✓		✓
Palmyra 2021.1	NFIP Participation	City of Palmyra	High	1, 2	Flooding	✓		✓
NECOMM 2021.1	Emergency Communications	NECOMM	High	1, 2 3	All Hazards	✓		
Marion Ambulance 2021.1	Emergency Communications	Marion County Ambulance	High	1, 2 3	All Hazards	✓		
Hannibal 2021.3	NFIP Participation	City of Hannibal	High	1, 2	Flooding	✓		✓

#	Action	Jurisdiction	Priority	Goals Addressed	Hazards Addressed	Address Current Development	Address Future Development	Continued Compliance with NFIP
Emergency Services								
Marion County 2021.2	NFIP Participation	Marion County	High	1,2	Flooding	✓		✓
Palmyra 2021.1	NFIP Participation	City of Palmyra	High	1, 2	Flooding	✓		✓
Marion County 2021.1	Installation/Upgrade Sirens	Marion County	High	1	All Hazards	✓	✓	
Marion County 2021.3	Flood Mitigation	Marion County	High	1, 2	Flooding	✓	✓	
Marion County 2021.4	Maintain Transportation Infrastructure	Marion County	Medium	1, 2, 3	Flooding, Severe Thunderstorms, Winter Weather	✓	✓	
Marion County 2021.5	Response to Pandemic	Marion County	High	1, 2, 3	Pandemic	✓		
Marion County 2021.6	Safe Room and Storm Shelters	Marion County	High	1, 2, 3	Severe Thunderstorms, Tornadoes, Wind Storm	✓		
Marion County 2021.7	Generator for Shelters/ Critical Facilities	Marion County	High	1, 2	Extreme Temperature, Severe Thunderstorms, Severe Winter Weather, Tornado	✓		
Marion County 2021.1	Installation/Upgrade Sirens	Marion County	High	1	All Hazards	✓	✓	
Marion County 2021.8	Debris Removal	Marion County	High	1, 2	Tornado, Severe Thunderstorm	✓		
Palmyra 2021.2	Maintain Transportation Infrastructure	City of Palmyra	Medium	1, 2, 3	Flooding, Severe Thunderstorm, Winter Weather	✓	✓	
Palmyra 2021.3	Installation/Upgrade Sirens	City of Palmyra	High	1	All Hazards	✓		

#	Action	Jurisdiction	Priority	Goals Addressed	Hazards Addressed	Address Current Development	Address Future Development	Continued Compliance with NFIP
Palmyra 2021.4	Generator for Water Facility	City of Palmyra	High	1, 2,3	Extreme Temperature, Severe Thunderstorm, Severe Winter Weather, Tornado	✓		
NECOMM 2021.1	Emergency Communications	NECOMM	High	1, 2 3	All Hazards	✓		
Marion Ambulance 2021.1	Emergency Communications	Marion County Ambulance	High	1, 2 3	All Hazards	✓		
Marion County R-2 2021.1	Safe Room and Storm Shelters	Marion County R-2	High	1	Severe Thunderstorm, Tornadoes, Wind Storms	✓		
South River DD 2021.1	Flood and Levee Mitigation	South River Drainage District	High	1, 2, 3	Flood, Levee Failure	✓		
Fabius DD 2021.1	Flood and Levee Mitigation	Fabius Drainage District	High	1, 2, 3	Flood, Levee Failure	✓		
Palmyra School 2021.7	Safe Room and Storm Shelter	Palmyra R-1	High	1	Severe Thunderstorms, Tornadoes, Wind Storms	✓		
Palmyra School 2021.8	Generator for School Buildings	Palmyra R-1	High	1	Extreme Temperature, Severe Thunderstorm, Severe Winter Weather, Tornado	✓		
Hannibal 2021.1	Flood Mitigation	City of Hannibal	High	1,2,3	Flood	✓		
Hannibal 2021.2	Maintain Transportation Infrastructure	City of Hannibal	High	1,2	Flooding, Severe Thunderstorm, Winter Weather	✓	✓	
Hannibal 2021.3	NFIP Participation	City of Hannibal	High	1, 2	Flooding	✓		✓

#	Action	Jurisdiction	Priority	Goals Addressed	Hazards Addressed	Address Current Development	Address Future Development	Continued Compliance with NFIP
Hannibal School 2021.7	Safe Room and Storm Shelter	Hannibal School	High	1	Severe Thunderstorms, Tornadoes, Wind Storms	✓		
Education and Outreach								
Marion County 2021.2	NFIP Participation	Marion County	High	1,2	Flooding	✓		✓
Palmyra 2021.1	NFIP Participation	City of Palmyra	High	1, 2	Flooding	✓		✓
NECOMM 2021.1	Emergency Communications	NECOMM	High	1, 2 3	All Hazards	✓		
Marion Ambulance 2021.1	Emergency Communications	Marion County Ambulance	High	1, 2 3	All Hazards	✓		
Hannibal 2021.3	NFIP Participation	City of Hannibal	High	1, 2	Flooding	✓		✓

