

4 MITIGATION STRATEGY

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This section presents the mitigation strategy updated by the Mitigation Planning Committee (MPC) based on the 2019 risk assessment. The mitigation strategy was developed through a collaborative group process. The process included review of 2019 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

This planning effort is an update to Montgomery County's existing hazard mitigation plan approved by FEMA in 2015. Therefore, the goals from the 2015 Montgomery 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 recently updated Missouri county plans. It was determined that the broadly stated goals were still valid for the 2019 update.

- Goal 1; Protect the lives and livelihoods of all citizens
- Goal 2; Employ sustainable principles and practices to enhance mitigation effectiveness
- Goal 3; Ensure continued operation of government and emergency functions during a disaster.

4.2 Identification and Analysis of Mitigation Actions

Some specific sources for mitigation action ideas include the following:

- FEMA's Mitigation Action Ideas Publication, <https://www.fema.gov/media-library/assets/documents/30627>
- FEMA's Climate Resilient Activities for Hazard Mitigation Assistance, <https://www.fema.gov/media-library/assets/documents/110202>
- EPA's Hazard Mitigation for Natural Disasters Publication, <https://www.epa.gov/waterutilityresponse/hazard-mitigation-natural-disasters>
- EPA's Planning for an Emergency Drinking Water Supply Publication, <https://www.epa.gov/waterutilityresponse/water-utility-planning-emergency-drinking-water-supply>

At the initial clerk meetings, specific hazards to each jurisdiction were discussed along with several ideas on existing and new action plans. During the second meeting of the MPC, the results of the risk assessment conducted by the Montgomery County EMD and Boonslick RPC staff were presented for review and the key issues were identified for specific hazards and discussed. The discussion included possible new mitigation actions, as well as actions from the previously approved plan. Actions from the previous plan included completed actions, on-going actions, and actions upon which progress had not been made. Changes in the risk since the adoption of the previous plan were discussed as well. The MPC discussed SEMA's identified funding priorities and the types of mitigation actions generally accepted by FEMA.

The meeting focused on updating the mitigation strategy. For a comprehensive range of mitigation actions to consider, the MPC reviewed the following information during the meeting.

- A list of all actions proposed in the previous mitigation plan, the current State plan, and recently approved plans from nearby counties
 - Key issues from the risk assessments, including the problem statements that conclude each hazard profile and vulnerability analysis
 - State priorities established for Hazard Mitigation Assistance grants
 - Public input during the meetings, responses from Data Collection Questionnaires, and other efforts to involve the public in the plan development process.
- Data Collection Questionnaires were hand-delivered to each jurisdiction prior to the kick-off meeting. This allowed for Mr. Cunningham and Ms. Kunapareddy to brief the respondents on what was expected for completion of the questionnaires. The kick-off meeting allowed the respondents to ask follow-up questions about the questionnaires. The Data Collection Questionnaires are part of Appendix.

Prior to this meeting, each jurisdiction was encouraged to review the details of the risk assessment / vulnerability analysis specific to them. At the kick-off meeting, MPC members were also provided information on how additional mitigation planning instructions could be obtained.

During the meeting, the MPC reviewed the actions from the previous approved plan for progress made since the plan was adopted using worksheets included in Appendix A of this plan. Prior to this meeting, 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.

The MPC included problem statements in the plan update at the end of each hazard profile. The problem statements summarized 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 review at the meeting, it was determined that many goals have been completed to the extent reasonable, that some goals were no longer practical or otherwise attainable, and that the remainder remained viable and should be continued. Based on the status reviews, there are 1 to 2 completed actions depending on the jurisdictions, 36 deleted actions, and 1 to 4 continuing actions depending on the jurisdictions. The table below summarizes action plan status for each jurisdiction.

Table 4.1. Action Status Summary

Jurisdiction	Completed Actions	Continuing/modify Actions	Deleted Actions
Montgomery County	2	2	34
City of Bellflower	1	4	33
City of High Hill	1	1	36
City of Jonesburg	1	2	35
Village of McKittrick	2	2	34
Village of Middletown	2	3	33
Montgomery City	2	2	34
City of New Florence	1	3	34
Village of Rhineland	3	1	34
City of Wellsville	1	2	35
Montgomery County R-II School District	2	1	1
Wellsville-Middletown R-I School District	2	1	1
Gasconade County R-I School District	2	1	1

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)
Montgomery County	
Improve NOAA All Hazards radio communication (proposed 2009)	County EMD communicates to public about the importance of NOAA weather radios. NOAA weather radios are available through the emergency management agency office at a cost.
Maintain an inventory of levees in the county	Inventory is complete
City of Bellflower	
Improve NOAA All Hazards radio communication (proposed 2009)	Bellflower has access to NOAA weather radios to purchase
City of High Hill	
Improve NOAA All Hazards radio communication (proposed 2009)	High Hill has access to NOAA weather radios to purchase
City of Jonesburg	
Improve NOAA All Hazards radio communication (proposed 2009)	Jonesburg has access to NOAA weather radios to purchase
Village of McKittrick	
Improve NOAA All Hazards radio communication (proposed 2009)	McKittrick has access to NOAA weather radios to purchase
Maintain an inventory of levees in the county	Inventory is complete
Village of Middletown	
Developed emergency warning systems (proposed 2009)	Installed siren systems
Improve NOAA All Hazards radio communication (proposed 2009)	Middletown has access to NOAA weather radios to purchase
Montgomery City	
Developed emergency warning systems (proposed 2009)	Installed siren systems
Improve NOAA All Hazards radio communication (proposed 2009)	Montgomery City has access to NOAA weather radios to purchase
City of New Florence	
Improve NOAA All Hazards radio communication (proposed 2009)	New Florence has access to NOAA weather radios to purchase
Village of Rhineland	
Developed emergency warning systems (proposed 2009)	Installed siren systems
Improve NOAA All Hazards radio communication (proposed 2009)	Rhineland has access to NOAA weather radios to purchase
Maintain an inventory of levees in the county	Inventory is complete
City of Wellsville	
Improve NOAA All Hazards radio communication (proposed 2009)	Wellsville has access to NOAA weather radios to purchase
Montgomery County R-II School District	
Develop emergency warning systems	The school district has NOAA weather radios
Promote fire-resistant construction materials	The school district buildings are constructed with fire resistant construction materials
Wellsville-Middletown R-I School District	

Completed Actions	Completion Details (date, amount, funding source)
Develop emergency warning systems	The school district has NOAA weather radios
Promote fire-resistant construction materials	The school district buildings are constructed with fire resistant construction materials
Gasconade County R-I School District	
Develop emergency warning systems	The school district has NOAA weather radios
Promote fire-resistant construction materials	The school district buildings are constructed with fire resistant construction materials

Source: 2015 Montgomery County Hazard Mitigation Plan; 2019 Data Collection Questionnaires.

Deleted Actions	Reason for Deletion
Montgomery County	
Identify geographic areas and develop a plan to implement needed systems	This action is determined to be accomplished as needed
Develop emergency warning systems	This action is determined to be accomplished as needed
Review and revise flood-fighting plans	This action is determined to be accomplished as needed
Strengthen floodplain regulations	This action is determined to be accomplished as needed
Improve drainage of roadways in flashflood areas	This action is determined to be accomplished as needed
Encourage local communities to include stormwater controls in their subdivision regulations	This action is determined to be an ongoing activity
Develop hazard area maps and promote their use by the public	This action is determined to be accomplished as needed
Consider additional training for emergency management personnel	This action is determined to be accomplished as needed
Identify ways to promote FEMA safety tips and mitigation techniques	This action is determined to be accomplished as needed, brochures are available
Monitor development in special flood hazard area to ensure compliance with local floodplain management ordinances	This action is determined to be accomplished as needed
To provide earthquake preparedness and safety literature each year	This action is determined to be accomplished as needed
Review and upgrade policies for identifying and budgeting additional emergency equipment	This action is determined to be accomplished as needed and depending on the availability of budget
Review and upgrade critical infrastructure backup equipment	This action is determined to be accomplished as needed and depending on the availability of budget
Promote fire-resistant construction materials	This action is determined to be accomplished as needed, brochures are available
Identify and use existing mechanisms to promote NFIP policies and earthquake/seismic insurance	This action is determined to be accomplished as needed, brochures are available
Encourage all building owners to invest in retrofit techniques by providing FEMA articles via local newspapers & Chambers of Commerce	This action is determined to be accomplished as needed, brochures are available
Consider known hazards when identifying a site for new facilities and systems	This action is determined to be an ongoing activity
Encourage tornado safe rooms	This action is determined to be an ongoing activity

Deleted Actions	Reason for Deletion
Encourage up to date commercial and industrial disaster plans that are coordinated with community disaster plans	This action is determined to be accomplished as needed, brochures are available
Encourage operation and infrastructure backup systems for commercial and industrial businesses	This action is determined to be accomplished as needed, brochures are available
Use the disaster resistant jobs plan to assist with disaster planning	This action is determined to be accomplished as needed, brochures are available
Develop and maintain an inventory of special needs and vulnerable populations	This action is determined to be an ongoing activity
Enhance warning systems and notifications for special populations	This action is determined to be an ongoing activity
Maintain inventory of vulnerable infrastructure	This action is determined to be an ongoing activity
Upgrade rural water/sewer systems to DNR standards	This action is determined to be accomplished as needed and depending on the availability of budget
Resolve any existing environmental conflicts and take steps to prevent future conflicts	This action is determined to be an ongoing activity
Promote building codes in incorporated areas that currently do not have such regulations	This action is determined to be an ongoing activity
Implement measures to increase the county's Community Rating System (CRS) status	This action was determined not beneficial
Facilitate rainwater percolation in the ground water supply	This action is determined to be accomplished as needed
Review and upgrade appropriate emergency backup systems	This action is determined to be accomplished as needed
Maintain essential public services	This action is determined to be accomplished as needed
Ensure all Class C dams have an emergency operations plan and support periodic inspections of the dams	This activity is determined to be accomplished by the Department of Natural Resources
Identify, review, and implement mechanisms to foster collaboration among jurisdictions, agencies and special districts	This action is determined to be an ongoing activity
Improve planning, funding and response coordination	This action is determined to be an ongoing activity
City of Bellflower	
Identify geographic areas and develop a plan to implement needed systems	This action is determined to be accomplished as needed
Develop emergency warning systems	This action is determined to be accomplished as needed
Review and revise flood-fighting plans	This action is determined to be accomplished as needed
Strengthen floodplain regulations	This action is determined to be accomplished as needed
Improve drainage of roadways in flashflood areas	This action is determined to be accomplished as needed
Encourage local communities to include stormwater controls in their subdivision regulations	This action is determined to be an ongoing activity
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Maintain an inventory of levees	There are no levees
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Improve planning, funding and response coordination	This action is determined to be an ongoing activity
City of High Hill	
Identify geographic areas and develop a plan to implement needed systems	This action is determined to be accomplished as needed
Develop emergency warning systems	This action is determined to be accomplished as needed
Promote environmentally-sound watershed and stormwater practices to decrease flash flooding	This action is determined to be accomplished as needed
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Resolve any existing environmental conflicts and take steps to prevent future conflicts	This action is determined to be an ongoing activity
Promote building codes in incorporated areas that currently do not have such regulations	This action is determined to be an ongoing activity
Implement measures to increase the county's Community Rating System (CRS) status	This action was determined not beneficial
Facilitate rainwater percolation in the ground water supply	This action is determined to be accomplished as needed
Review and upgrade appropriate emergency backup systems	This action is determined to be accomplished as needed
Maintain essential public services	This action is determined to be accomplished as needed
Ensure all Class C dams have an emergency operations plan and support periodic inspections of the dams	This activity is determined to be accomplished by the Department of Natural Resources
Maintain an inventory of levees	There are no levees
Identify, review, and implement mechanisms to foster collaboration among jurisdictions, agencies and special districts	This action is determined to be an ongoing activity
Improve planning, funding and response coordination	This action is determined to be an ongoing activity
City of New Florence	
Identify geographic areas and develop a plan to implement needed systems	This action is determined to be accomplished as needed
Develop emergency warning systems	This action is determined to be accomplished as needed
Promote environmentally-sound watershed and stormwater practices to decrease flash flooding	This action is determined to be accomplished as needed
Review and revise flood-fighting plans	This action is determined to be accomplished as needed
Strengthen floodplain regulations	This action is determined to be accomplished as needed

Deleted Actions	Reason for Deletion
Improve drainage of roadways in flashflood areas	This action is determined to be accomplished as needed
Encourage local communities to include stormwater controls in their subdivision regulations	This action is determined to be an ongoing activity
Develop hazard area maps and promote their use by the public	This action is determined to be accomplished as needed
Consider additional training for emergency management personnel	This action is determined to be accomplished as needed
Identify ways to promote FEMA safety tips and mitigation techniques	This action is determined to be accomplished as needed, brochures are available
Monitor development in special flood hazard area to ensure compliance with local floodplain management ordinances	This action is determined to be accomplished as needed
To provide earthquake preparedness and safety literature each year	This action is determined to be accomplished as needed
Review and upgrade policies for identifying and budgeting additional emergency equipment	This action is determined to be accomplished as needed and depending on the availability of budget
Review and upgrade critical infrastructure backup equipment	This action is determined to be accomplished as needed and depending on the availability of budget
Promote fire-resistant construction materials	This action is determined to be accomplished as needed, brochures are available
Encourage all building owners to invest in retrofit techniques by providing FEMA articles via local newspapers & Chambers of Commerce	This action is determined to be accomplished as needed, brochures are available
Consider known hazards when identifying a site for new facilities and systems	This action is determined to be an ongoing activity
Encourage tornado safe rooms	This action is determined to be an ongoing activity
Encourage up to date commercial and industrial disaster plans that are coordinated with community disaster plans	This action is determined to be accomplished as needed, brochures are available
Encourage operation and infrastructure backup systems for commercial and industrial businesses	This action is determined to be accomplished as needed, brochures are available
Use the disaster resistant jobs plan to assist with disaster planning	This action is determined to be accomplished as needed, brochures are available
Develop and maintain an inventory of special needs and vulnerable populations	This action is determined to be an ongoing activity
Enhance warning systems and notifications for special populations	This action is determined to be an ongoing activity
Maintain inventory of vulnerable infrastructure	This action is determined to be an ongoing activity
Resolve any existing environmental conflicts and take steps to prevent future conflicts	This action is determined to be an ongoing activity
Promote building codes in incorporated areas that currently do not have such regulations	This action is determined to be an ongoing activity
Implement measures to increase the county's Community Rating System (CRS) status	This action was determined not beneficial
Facilitate rainwater percolation in the ground water supply	This action is determined to be accomplished as needed
Review and upgrade appropriate emergency backup systems	This action is determined to be accomplished as needed

Deleted Actions	Reason for Deletion
Maintain essential public services	This action is determined to be accomplished as needed
Ensure all Class C dams have an emergency operations plan and support periodic inspections of the dams	This activity is determined to be accomplished by the Department of Natural Resources
Maintain an inventory of levees	There are no levees
Identify, review, and implement mechanisms to foster collaboration among jurisdictions, agencies and special districts	This action is determined to be an ongoing activity
Improve planning, funding and response coordination	This action is determined to be an ongoing activity
Village of Rhineland	
Identify geographic areas and develop a plan to implement needed systems	This action is determined to be accomplished as needed
Promote environmentally-sound watershed and stormwater practices to decrease flash flooding	This action is determined to be accomplished as needed
Review and revise flood-fighting plans	This action is determined to be accomplished as needed
Strengthen floodplain regulations	This action is determined to be accomplished as needed
Improve drainage of roadways in flashflood areas	This action is determined to be accomplished as needed
Encourage local communities to include stormwater controls in their subdivision regulations	This action is determined to be an ongoing activity
Develop hazard area maps and promote their use by the public	This action is determined to be accomplished as needed
Consider additional training for emergency management personnel	This action is determined to be accomplished as needed
Identify ways to promote FEMA safety tips and mitigation techniques	This action is determined to be accomplished as needed, brochures are available
Monitor development in special flood hazard area to ensure compliance with local floodplain management ordinances	This action is determined to be accomplished as needed
To provide earthquake preparedness and safety literature each year	This action is determined to be accomplished as needed
Review and upgrade policies for identifying and budgeting additional emergency equipment	This action is determined to be accomplished as needed and depending on the availability of budget
Review and upgrade critical infrastructure backup equipment	This action is determined to be accomplished as needed and depending on the availability of budget
Promote fire-resistant construction materials	This action is determined to be accomplished as needed, brochures are available
Identify and use existing mechanisms to promote NFIP policies and earthquake/seismic insurance	This action is determined to be accomplished as needed, brochures are available
Encourage all building owners to invest in retrofit techniques by providing FEMA articles via local newspapers & Chambers of Commerce	This action is determined to be accomplished as needed, brochures are available
Consider known hazards when identifying a site for new facilities and systems	This action is determined to be an ongoing activity

Deleted Actions	Reason for Deletion
Encourage tornado safe rooms	This action is determined to be an ongoing activity
Encourage up to date commercial and industrial disaster plans that are coordinated with community disaster plans	This action is determined to be accomplished as needed, brochures are available
Encourage operation and infrastructure backup systems for commercial and industrial businesses	This action is determined to be accomplished as needed, brochures are available
Use the disaster resistant jobs plan to assist with disaster planning	This action is determined to be accomplished as needed, brochures are available
Develop and maintain an inventory of special needs and vulnerable populations	This action is determined to be an ongoing activity
Enhance warning systems and notifications for special populations	This action is determined to be an ongoing activity
Maintain inventory of vulnerable infrastructure	This action is determined to be an ongoing activity
Upgrade rural water/sewer systems to DNR standards	This action is determined to be accomplished as needed and depending on the availability of budget
Resolve any existing environmental conflicts and take steps to prevent future conflicts	This action is determined to be an ongoing activity
Promote building codes in incorporated areas that currently do not have such regulations	This action is determined to be an ongoing activity
Implement measures to increase the county's Community Rating System (CRS) status	This action was determined not beneficial
Facilitate rainwater percolation in the ground water supply	This action is determined to be accomplished as needed
Review and upgrade appropriate emergency backup systems	This action is determined to be accomplished as needed
Maintain essential public services	This action is determined to be accomplished as needed
Ensure all Class C dams have an emergency operations plan and support periodic inspections of the dams	This activity is determined to be accomplished by the Department of Natural Resources
Identify, review, and implement mechanisms to foster collaboration among jurisdictions, agencies and special districts	This action is determined to be an ongoing activity
Improve planning, funding and response coordination	This action is determined to be an ongoing activity
City of Wellsville	
Identify geographic areas and develop a plan to implement needed systems	This action is determined to be accomplished as needed
Promote environmentally-sound watershed and stormwater practices to decrease flash flooding	This action is determined to be accomplished as needed
Review and revise flood-fighting plans	This action is determined to be accomplished as needed
Strengthen floodplain regulations	This action is determined to be accomplished as needed
Improve drainage of roadways in flashflood areas	This action is determined to be accomplished as needed

Deleted Actions	Reason for Deletion
Encourage local communities to include stormwater controls in their subdivision regulations	This action is determined to be an ongoing activity
Develop hazard area maps and promote their use by the public	This action is determined to be accomplished as needed
Consider additional training for emergency management personnel	This action is determined to be accomplished as needed
Identify ways to promote FEMA safety tips and mitigation techniques	This action is determined to be accomplished as needed, brochures are available
Monitor development in special flood hazard area to ensure compliance with local floodplain management ordinances	This action is determined to be accomplished as needed
To provide earthquake preparedness and safety literature each year	This action is determined to be accomplished as needed
Review and upgrade policies for identifying and budgeting additional emergency equipment	This action is determined to be accomplished as needed and depending on the availability of budget
Review and upgrade critical infrastructure backup equipment	This action is determined to be accomplished as needed and depending on the availability of budget
Promote fire-resistant construction materials	This action is determined to be accomplished as needed, brochures are available
Identify and use existing mechanisms to promote NFIP policies and earthquake/seismic insurance	This action is determined to be accomplished as needed, brochures are available
Encourage all building owners to invest in retrofit techniques by providing FEMA articles via local newspapers & Chambers of Commerce	This action is determined to be accomplished as needed, brochures are available
Consider known hazards when identifying a site for new facilities and systems	This action is determined to be an ongoing activity
Encourage tornado safe rooms	This action is determined to be an ongoing activity
Encourage up to date commercial and industrial disaster plans that are coordinated with community disaster plans	This action is determined to be accomplished as needed, brochures are available
Encourage operation and infrastructure backup systems for commercial and industrial businesses	This action is determined to be accomplished as needed, brochures are available
Use the disaster resistant jobs plan to assist with disaster planning	This action is determined to be accomplished as needed, brochures are available
Develop and maintain an inventory of special needs and vulnerable populations	This action is determined to be an ongoing activity
Enhance warning systems and notifications for special populations	This action is determined to be an ongoing activity
Maintain inventory of vulnerable infrastructure	This action is determined to be an ongoing activity
Upgrade rural water/sewer systems to DNR standards	This action is determined to be accomplished as needed and depending on the availability of budget
Resolve any existing environmental conflicts and take steps to prevent future conflicts	This action is determined to be an ongoing activity
Promote building codes in incorporated areas that currently do not have such regulations	This action is determined to be an ongoing activity
Implement measures to increase the county's Community Rating System (CRS) status	This action was determined not beneficial
Facilitate rainwater percolation in the ground water supply	This action is determined to be accomplished as needed

Deleted Actions	Reason for Deletion
Review and upgrade appropriate emergency backup systems	This action is determined to be accomplished as needed
Maintain essential public services	This action is determined to be accomplished as needed
Ensure all Class C dams have an emergency operations plan and support periodic inspections of the dams	This activity is determined to be accomplished by the Department of Natural Resources
Maintain an inventory of levees	There are no levees
Identify, review, and implement mechanisms to foster collaboration among jurisdictions, agencies and special districts	This action is determined to be an ongoing activity
Improve planning, funding and response coordination	This action is determined to be an ongoing activity
Montgomery County R-I School District	
Identify geographic areas and develop a plan to implement needed systems	This action is determined to be an ongoing activity
Wellsville-Middletown R-I School District	
Identify geographic areas and develop a plan to implement needed systems	This action is determined to be an ongoing activity
Wellsville-Middletown R-I School District	
Identify geographic areas and develop a plan to implement needed systems	This action is determined to be an ongoing activity

Source: 2015 Montgomery County Hazard Mitigation Plan; 2019 Data Collection Questionnaires.

4.3 Implementation of Mitigation Actions

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 for 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.

The plan indicates if the prioritization process and / or methodology have changed since the previous plan's adoption. If the process changed, the change is described along with the how and why it changed. If the prioritization process and methodology did not change, it is so noted. Actions were prioritized independently for EACH jurisdiction. For example, if two communities each had an action to acquire floodprone properties, these were evaluated independently based on each jurisdiction's capabilities.

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 B. 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

No new action items are added to Goal 3. All the action items included in 2015 plan are determined as an ongoing activity or already accomplished. However, the committee decided to keep Goal 3 for future plan purposes.

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	Evaluation Rating	Score
	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)
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Completed by _____
(Name, Title, Phone Number)

4.3.1 2019 Updated Action Plans

Name of Jurisdiction	Montgomery County
Risk/Vulnerability	
Problem being mitigated	Community growth alters watershed
Hazard(s) Addressed	Flooding
Action or Project	
Action/Project Number	1.2.1
Name of Action or Project	Promote environmentally-sound watershed and storm water practices to decrease flash flooding
Action or Project Description	To develop an environmentally sound watershed plan. To repair low water crossings.
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$125,000/4 low water crossings
Benefits	Reduce property loss and number of drownings due to low water crossings
Plan for Implementation	
Responsible Organization/ Department	Montgomery County Public Works Department
Action/Project Priority	High
Timeline for Completion	1-5 years
Potential Funding Sources	Local funds, FEMA funds
Local Planning Mechanisms to be used in Implementation, if any	Montgomery County long range budget
Progress Report	
Action Status	Continuing
Report of Progress	Low water crossings are geo located. The county commissioners are conditionally supportive of the plan.
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	Montgomery County
Risk/Vulnerability	
Problem being mitigated	Lack of understanding of flood risk areas
Hazard(s) Addressed	Flooding
Action or Project	
Action/Project Number	1.2.6
Name of Action or Project	Develop Risk Map for the County
Action or Project Description	To review and endorse FEMA proposed Risk Maps
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$0
Benefits	To better understand their current flood risk, as well as the actions that can be taken to mitigate and become more resilient against future risk.
Plan for Implementation	
Responsible Organization/ Department	Governing Board
Action/Project Priority	Medium
Timeline for Completion	1 year
Potential Funding Sources	FEMA funds
Local Planning Mechanisms to be used in Implementation, if any	Planning & Zoning; emergency operations plan
Progress Report	
Action Status	Continuing
Report of Progress	FEMA facilitated planning meetings with various governing jurisdictions
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	Montgomery County
Risk/Vulnerability	
Problem being mitigated	Better understanding of the types of hazardous materials transported through the county will allow the county to better prepare for hazardous materials spills
Hazard(s) Addressed	Hazardous materials and transportation incidents
Action or Project	
Action/Project Number	1.8.2
Name of Action or Project	Develop a commodity flow study for major routes in the county
Action or Project Description	A live survey to be conducted during summer of 2019
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$5,000
Benefits	Assist MoDOT and EMA better plan for hazardous material spills
Plan for Implementation	
Responsible Organization/ Department	County EMA
Action/Project Priority	Medium
Timeline for Completion	Fall 2019
Potential Funding Sources	Local funds
Local Planning Mechanisms to be used in Implementation, if any	Emergency operations plan, THIRA
Progress Report	
Action Status	New
Report of Progress	The staff has been hired to conduct a survey
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of Bellflower
Risk/Vulnerability	
Problem being mitigated	When power is lost to the community there is no backup source of power available
Hazard(s) Addressed	Utilities disruption due to hazardous weather conditions, transportation incidents and terrorism
Action or Project	
Action/Project Number	1.1.4
Name of Action or Project	To bring a request for a generator through Region F Homeland Security Oversight Committee
Action or Project Description	Submit an application through Region F Homeland Security to obtain a dedicated mobile generator
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$65,000
Benefits	Provides emergency power for community shelters, water system, communications and emergency medical response
Plan for Implementation	
Responsible Organization/ Department	Clerk, Mayor, Fire Chief
Action/Project Priority	Medium
Timeline for Completion	1-5 years
Potential Funding Sources	Regional Homeland Security, local funds
Local Planning Mechanisms to be used in Implementation, if any	Homeland security funding grant
Progress Report	
Action Status	New
Report of Progress	Not started
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of Bellflower
Risk/Vulnerability	
Problem being mitigated	Lack of understanding of flood risk areas
Hazard(s) Addressed	Flooding
Action or Project	
Action/Project Number	1.2.6
Name of Action or Project	Develop Risk Map for the County
Action or Project Description	To review and endorse FEMA proposed Risk Maps
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$0
Benefits	To better understand their current flood risk, as well as the actions that can be taken to mitigate and become more resilient against future risk.
Plan for Implementation	
Responsible Organization/ Department	Governing Board
Action/Project Priority	Medium
Timeline for Completion	1 year
Potential Funding Sources	FEMA funds
Local Planning Mechanisms to be used in Implementation, if any	Planning & Zoning; emergency operations plan
Progress Report	
Action Status	Continuing
Report of Progress	FEMA facilitated planning meetings with various governing jurisdictions
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of Bellflower
Risk/Vulnerability	
Problem being mitigated	Inability of homeowners to quality for NFIP insurance
Hazard(s) Addressed	Flooding
Action or Project	
Action/Project Number	1.5.1
Name of Action or Project	To work with SEMA/FEMA to participate in NFIP
Action or Project Description	City of Bellflower will provide the required documentation to SEMA/FEMA
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$1,000
Benefits	To be eligile to participate and use loans and grants
Plan for Implementation	
Responsible Organization/ Department	Clek, Mayor
Action/Project Priority	Medium
Timeline for Completion	1-2 years
Potential Funding Sources	Local funds
Local Planning Mechanisms to be used in Implementation, if any	NFIP policy
Progress Report	
Action Status	Continuing/Modified
Report of Progress	EMD contacted SEMA- SEMA programmed a visit with the city to start the process
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of Bellflower
Risk/Vulnerability	
Problem being mitigated	Many homes do not have a safe place to endure a tornado
Hazard(s) Addressed	Tornadoes, high winds
Action or Project	
Action/Project Number	1.6.2
Name of Action or Project	Research and apply for tornado safe room funding
Action or Project Description	Study and implement draft plans necessary for submittal of application for funds
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$30,000
Benefits	Potentially save lives
Plan for Implementation	
Responsible Organization/ Department	Clerk, Mayor, Fire Chief
Action/Project Priority	High
Timeline for Completion	1-5 years
Potential Funding Sources	HMPG, local funds
Local Planning Mechanisms to be used in Implementation, if any	City budget, County EOP
Progress Report	
Action Status	Continuing/Modified
Report of Progress	Not started
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of High Hill
Risk/Vulnerability	
Problem being mitigated	Lack of understanding of flood risk areas
Hazard(s) Addressed	Flooding
Action or Project	
Action/Project Number	1.2.6
Name of Action or Project	Develop Risk Map for the County
Action or Project Description	To review and endorse FEMA proposed Risk Maps
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$0
Benefits	To better understand their current flood risk, as well as the actions that can be taken to mitigate and become more resilient against future risk.
Plan for Implementation	
Responsible Organization/ Department	Governing Board
Action/Project Priority	Medium
Timeline for Completion	1 year
Potential Funding Sources	FEMA funds
Local Planning Mechanisms to be used in Implementation, if any	Planning & Zoning; emergency operations plan
Progress Report	
Action Status	Continuing
Report of Progress	FEMA facilitated planning meetings with various governing jurisdictions
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of Jonesburg
Risk/Vulnerability	
Problem being mitigated	Lack of understanding of flood risk areas
Hazard(s) Addressed	Flooding
Action or Project	
Action/Project Number	1.2.6
Name of Action or Project	Develop Risk Map for the County
Action or Project Description	To review and endorse FEMA proposed Risk Maps
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$0
Benefits	To better understand their current flood risk, as well as the actions that can be taken to mitigate and become more resilient against future risk.
Plan for Implementation	
Responsible Organization/ Department	Governing Board
Action/Project Priority	Medium
Timeline for Completion	1 year
Potential Funding Sources	FEMA funds
Local Planning Mechanisms to be used in Implementation, if any	Planning & Zoning; emergency operations plan
Progress Report	
Action Status	Continuing
Report of Progress	FEMA facilitated planning meetings with various governing jurisdictions
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of Jonesburg
Risk/Vulnerability	
Problem being mitigated	Current treatment system is not able to meet future permit limits for ammonia & the collection system is experiencing severe inflow & infiltration problems
Hazard(s) Addressed	Drought
Action or Project	
Action/Project Number	2.1.1
Name of Action or Project	Upgrade rural water/sewer system to meet DNR standards
Action or Project Description	To repair the entire collection system at one, to purchase additional 17 acres of land surrounding the lagoon and taking care of the treatment system to be able to meet future permit
Applicable Goal Statement	Goal 2- Manage growth through sustainable principles and practices
Estimated Cost	\$5,107,295.76
Benefits	This project will bring the system in compliance with future permit limits
Plan for Implementation	
Responsible Organization/ Department	City, USDA, CDBG, Boonslick Regional Planning
Action/Project Priority	High
Timeline for Completion	2 years
Potential Funding Sources	City, USDA, CDBG
Local Planning Mechanisms to be used in Implementation, if any	Comprehensive Plan
Progress Report	
Action Status	Continuing
Report of Progress	USDA grant/loans have been secured. Working on CDBG application, CDBG Environmental is complete.
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	Village of McKittrick
Risk/Vulnerability	
Problem being mitigated	Lack of early warning system for hazardous weather
Hazard(s) Addressed	Tornado, high winds
Action or Project	
Action/Project Number	1.1.2
Name of Action or Project	Continue to explore ways to fund tornado sirens
Action or Project Description	Research and apply for HMPG funding
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$0
Benefits	Potentially save lives
Plan for Implementation	
Responsible Organization/ Department	Mayor
Action/Project Priority	High
Timeline for Completion	1-5 years
Potential Funding Sources	HMPG
Local Planning Mechanisms to be used in Implementation, if any	HMPG
Progress Report	
Action Status	Continuing/Modified
Report of Progress	Not started
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	Village of McKittrick
Risk/Vulnerability	
Problem being mitigated	Lack of understanding of flood risk areas
Hazard(s) Addressed	Flooding
Action or Project	
Action/Project Number	1.2.6
Name of Action or Project	Develop Risk Map for the County
Action or Project Description	To review and endorse FEMA proposed Risk Maps
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$0
Benefits	To better understand their current flood risk, as well as the actions that can be taken to mitigate and become more resilient against future risk.
Plan for Implementation	
Responsible Organization/ Department	Governing Board
Action/Project Priority	Medium
Timeline for Completion	1 year
Potential Funding Sources	FEMA funds
Local Planning Mechanisms to be used in Implementation, if any	Planning & Zoning; emergency operations plan
Progress Report	
Action Status	Continuing
Report of Progress	FEMA facilitated planning meetings with various governing jurisdictions
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of Middletown
Risk/Vulnerability	
Problem being mitigated	When power is lost to the community there is no backup source of power available
Hazard(s) Addressed	Utilities disruption due to hazardous weather conditions, transportation incidents and terrorism
Action or Project	
Action/Project Number	1.1.4
Name of Action or Project	To bring a request for a generator through Region F Homeland Security Oversight Committee
Action or Project Description	Submit an application through Region F Homeland Security to obtain a dedicated mobile generator
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$65,000
Benefits	Provides emergency power for community shelters, water system, communications and emergency medical response
Plan for Implementation	
Responsible Organization/ Department	Clerk, Mayor, Fire Chief
Action/Project Priority	Medium
Timeline for Completion	1-5 years
Potential Funding Sources	Regional Homeland Security, local funds
Local Planning Mechanisms to be used in Implementation, if any	Homeland security funding grant
Progress Report	
Action Status	New
Report of Progress	Not started
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of Middletown
Risk/Vulnerability	
Problem being mitigated	Lack of understanding of flood risk areas
Hazard(s) Addressed	Flooding
Action or Project	
Action/Project Number	1.2.6
Name of Action or Project	Develop Risk Map for the County
Action or Project Description	To review and endorse FEMA proposed Risk Maps
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$0
Benefits	To better understand their current flood risk, as well as the actions that can be taken to mitigate and become more resilient against future risk.
Plan for Implementation	
Responsible Organization/ Department	Governing Board
Action/Project Priority	Medium
Timeline for Completion	1 year
Potential Funding Sources	FEMA funds
Local Planning Mechanisms to be used in Implementation, if any	Planning & Zoning; emergency operations plan
Progress Report	
Action Status	Continuing
Report of Progress	FEMA facilitated planning meetings with various governing jurisdictions
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of Middletown
Risk/Vulnerability	
Problem being mitigated	Many homes do not have a safe place to endure a tornado
Hazard(s) Addressed	Tornadoes, high winds
Action or Project	
Action/Project Number	1.6.2
Name of Action or Project	Research and apply for tornado safe room funding
Action or Project Description	Study and implement draft plans necessary for submittal of application for funds
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$30,000
Benefits	Potentially save lives
Plan for Implementation	
Responsible Organization/ Department	Clerk, Mayor, Fire Chief
Action/Project Priority	High
Timeline for Completion	1-5 years
Potential Funding Sources	HMPG, local funds
Local Planning Mechanisms to be used in Implementation, if any	City budget, County EOP
Progress Report	
Action Status	Continuing/Modified
Report of Progress	Not started
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of Middletown
Risk/Vulnerability	
Problem being mitigated	To mitigate water loss
Hazard(s) Addressed	Drought
Action or Project	
Action/Project Number	2.1.1
Name of Action or Project	Upgrade rural water/sewer system to meet DNR standards
Action or Project Description	To replace aging water lines to mitigate water loss and to prevent the system from becoming contaminated due to leaking lines
Applicable Goal Statement	Goal 2- Manage growth through sustainable principles and practices
Estimated Cost	The City is waiting for the demolition project that they received funding to be completed before they move forward with this project
Benefits	Increase the flow and pressure of water lines
Plan for Implementation	
Responsible Organization/ Department	Board of Alderman, Clerk, Boonlisick Regional Planning
Action/Project Priority	High
Timeline for Completion	5 years
Potential Funding Sources	USDA, CDBG, Local
Local Planning Mechanisms to be used in Implementation, if any	City of Middletown long range plan
Progress Report	
Action Status	Continuing
Report of Progress	Planning phase, meeting with the city officials
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of Montgomery City
Risk/Vulnerability	
Problem being mitigated	Lack of absorption of precipitation
Hazard(s) Addressed	Floods, flash floods, heavy rains, heavy snow, hailstorms
Action or Project	
Action/Project Number	1.2.5
Name of Action or Project	Include stormwater controls in subdivision ordinances
Action or Project Description	To develop an environmentally sound watershed plan
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$0
Benefits	Prevents flash floods and erosion
Plan for Implementation	
Responsible Organization/ Department	City administrator
Action/Project Priority	Medium
Timeline for Completion	1-5 years
Potential Funding Sources	Local funds
Local Planning Mechanisms to be used in Implementation, if any	Subdivision ordinances
Progress Report	
Action Status	Continuing
Report of Progress	Not started
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of Montgomery City
Risk/Vulnerability	
Problem being mitigated	Lack of understanding of flood risk areas
Hazard(s) Addressed	Flooding
Action or Project	
Action/Project Number	1.2.6
Name of Action or Project	Develop Risk Map for the County
Action or Project Description	To review and endorse FEMA proposed Risk Maps
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$0
Benefits	To better understand their current flood risk, as well as the actions that can be taken to mitigate and become more resilient against future risk.
Plan for Implementation	
Responsible Organization/ Department	Governing Board
Action/Project Priority	Medium
Timeline for Completion	1 year
Potential Funding Sources	FEMA funds
Local Planning Mechanisms to be used in Implementation, if any	Planning & Zoning; emergency operations plan
Progress Report	
Action Status	Continuing
Report of Progress	FEMA facilitated planning meetings with various governing jurisdictions
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of New Florence
Risk/Vulnerability	
Problem being mitigated	Lack of understanding of flood risk areas
Hazard(s) Addressed	Flooding
Action or Project	
Action/Project Number	1.2.6
Name of Action or Project	Develop Risk Map for the County
Action or Project Description	To review and endorse FEMA proposed Risk Maps
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$0
Benefits	To better understand their current flood risk, as well as the actions that can be taken to mitigate and become more resilient against future risk.
Plan for Implementation	
Responsible Organization/ Department	Governing Board
Action/Project Priority	Medium
Timeline for Completion	1 year
Potential Funding Sources	FEMA funds
Local Planning Mechanisms to be used in Implementation, if any	Planning & Zoning; emergency operations plan
Progress Report	
Action Status	Continuing
Report of Progress	FEMA facilitated planning meetings with various governing jurisdictions
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of New Florence
Risk/Vulnerability	
Problem being mitigated	Inability of homeowners to quality for NFIP insurance
Hazard(s) Addressed	Flooding
Action or Project	
Action/Project Number	1.5.1
Name of Action or Project	To work with SEMA/FEMA to participate in NFIP
Action or Project Description	City of New Florence will provide the required documentation to SEMA/FEMA
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$1,000
Benefits	To be eligile to participate and use loans and grants
Plan for Implementation	
Responsible Organization/ Department	Clek, Mayor
Action/Project Priority	Medium
Timeline for Completion	1-2 years
Potential Funding Sources	Local funds
Local Planning Mechanisms to be used in Implementation, if any	NFIP policy
Progress Report	
Action Status	Continuing/Modified
Report of Progress	EMD contacted SEMA- SEMA programmed a visit with the city to start the process
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of New Florence
Risk/Vulnerability	
Problem being mitigated	Lack of a wastewater system that serves the entire population
Hazard(s) Addressed	Drought
Action or Project	
Action/Project Number	2.1.1
Name of Action or Project	Upgrade rural water/sewer system to meet DNR standards
Action or Project Description	To build a new wastewater system
Applicable Goal Statement	Goal 2- Manage growth through sustainable principles and practices
Estimated Cost	Not available
Benefits	Increase the flow and pressure of water lines
Plan for Implementation	
Responsible Organization/ Department	Board of Alderman, Clerk, Boonlick Regional Planning
Action/Project Priority	High
Timeline for Completion	5 years
Potential Funding Sources	USDA, CDBG, Local
Local Planning Mechanisms to be used in Implementation, if any	None
Progress Report	
Action Status	Continuing
Report of Progress	Planning phase, meeting with the city officials
Completed by	Boonlick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	Village of Rhineland
Risk/Vulnerability	
Problem being mitigated	Lack of understanding of flood risk areas
Hazard(s) Addressed	Flooding
Action or Project	
Action/Project Number	1.2.6
Name of Action or Project	Develop Risk Map for the County
Action or Project Description	To review and endorse FEMA proposed Risk Maps
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$0
Benefits	To better understand their current flood risk, as well as the actions that can be taken to mitigate and become more resilient against future risk.
Plan for Implementation	
Responsible Organization/ Department	Governing Board
Action/Project Priority	Medium
Timeline for Completion	1 year
Potential Funding Sources	FEMA funds
Local Planning Mechanisms to be used in Implementation, if any	Planning & Zoning; emergency operations plan
Progress Report	
Action Status	Continuing
Report of Progress	FEMA facilitated planning meetings with various governing jurisdictions
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of Wellsville
Risk/Vulnerability	
Problem being mitigated	Many homes do not have a safe place to endure a tornado
Hazard(s) Addressed	Tornaod, High Winds
Action or Project	
Action/Project Number	1.1.2
Name of Action or Project	Continue to explore ways to fund tornado sirens
Action or Project Description	Applied for USDA grant for a tornado siren. Waiting to know if it got funded or not.
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$30,000
Benefits	Potentially saves lives
Plan for Implementation	
Responsible Organization/ Department	City, USDA
Action/Project Priority	High
Timeline for Completion	3 years
Potential Funding Sources	USDA, SEMA
Local Planning Mechanisms to be used in Implementation, if any	Emergency operations plan
Progress Report	
Action Status	Continuing
Report of Progress	Waiting to know if the city got funded by USDA. If not other sources will be pursued.
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	City of Wellsville
Risk/Vulnerability	
Problem being mitigated	Lack of understanding of flood risk areas
Hazard(s) Addressed	Flooding
Action or Project	
Action/Project Number	1.2.6
Name of Action or Project	Develop Risk Map for the County
Action or Project Description	To review and endorse FEMA proposed Risk Maps
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	\$0
Benefits	To better understand their current flood risk, as well as the actions that can be taken to mitigate and become more resilient against future risk.
Plan for Implementation	
Responsible Organization/ Department	Governing Board
Action/Project Priority	Medium
Timeline for Completion	1 year
Potential Funding Sources	FEMA funds
Local Planning Mechanisms to be used in Implementation, if any	Planning & Zoning; emergency operations plan
Progress Report	
Action Status	Continuing
Report of Progress	FEMA facilitated planning meetings with various governing jurisdictions
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	Montgomery County R-II School District
Risk/Vulnerability	
Problem being mitigated	Lack of earthquake preparedness
Hazard(s) Addressed	Earthquake
Action or Project	
Action/Project Number	1.3.5
Name of Action or Project	To provide earthquake preparedness and safety literature each year
Action or Project Description	To continue to provide earthquake preparedness and safety literature for school districts
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	Little or no cost
Benefits	Reduce loss of life, personal injury, and property damage
Plan for Implementation	
Responsible Organization/ Department	Montgomery County R-II School District
Action/Project Priority	High
Timeline for Completion	Annually
Potential Funding Sources	FEMA
Local Planning Mechanisms to be used in Implementation, if any	Emergency operations plan
Progress Report	
Action Status	Continuing
Report of Progress	The literature is distributed continuously
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	Wellsville-Middletown R-I School District
Risk/Vulnerability	
Problem being mitigated	Lack of earthquake preparedness
Hazard(s) Addressed	Earthquake
Action or Project	
Action/Project Number	1.3.5
Name of Action or Project	To provide earthquake preparedness and safety literature each year
Action or Project Description	To continue to provide earthquake preparedness and safety literature for school districts
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	Little or no cost
Benefits	Reduce loss of life, personal injury, and property damage
Plan for Implementation	
Responsible Organization/ Department	Montgomery County R-II School District
Action/Project Priority	High
Timeline for Completion	Annually
Potential Funding Sources	FEMA
Local Planning Mechanisms to be used in Implementation, if any	Emergency operations plan
Progress Report	
Action Status	Continuing
Report of Progress	The literature is distributed continuously
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Name of Jurisdiction	Gasconade R-I School District
Risk/Vulnerability	
Problem being mitigated	Lack of earthquake preparedness
Hazard(s) Addressed	Earthquake
Action or Project	
Action/Project Number	1.3.5
Name of Action or Project	To provide earthquake preparedness and safety literature each year
Action or Project Description	To continue to provide earthquake preparedness and safety literature for school districts
Applicable Goal Statement	Goal 1- Protect the lives and livelihoods of all citizens
Estimated Cost	Little or no cost
Benefits	Reduce loss of life, personal injury, and property damage
Plan for Implementation	
Responsible Organization/ Department	Montgomery County R-II School District
Action/Project Priority	High
Timeline for Completion	Annually
Potential Funding Sources	FEMA
Local Planning Mechanisms to be used in Implementation, if any	Emergency operations plan
Progress Report	
Action Status	Continuing
Report of Progress	The literature is distributed continuously
Completed by	Boonslick Regional Planning, Montgomery County Emergency Management Agency with concurrence from the HMPC

Table 4.3. Mitigation Action Matrix

Action	Jurisdiction	Priority	Goals Addressed	Hazards Addressed	Address Current Development	Address Future Development	Continued Compliance with NFIP
Promote environmentally-sound watershed and storm water practices to decrease flash flooding	Montgomery County	High	Goal 1	Flooding	Yes	Yes	Yes
Develop Risk Map for the County	Montgomery County	Medium	Goal 1	Flooding	Yes	Yes	Yes
Develop a commodity flow study for major routes in the county	Montgomery County	Medium	Goal 1	Hazardous materials, Transportation incidents	Yes	Yes	Yes
To bring a request for a generator through Region F Homeland Security Oversight Committee	City of Bellflower	Medium	Goal 1	Utilities disruption, Transportation incidents, Terrorism	Yes	Yes	No
Develop Risk Map for the County	City of Bellflower	Medium	Goal 1	Flooding	Yes	Yes	No
To work with SEMA/FEMA to participate in NFIP	City of Bellflower	Medium	Goal 1	Flooding	Yes	Yes	No
Research and apply for tornado safe room funding	City of Bellflower	High	Goal 1	Tornadoes, high winds	Yes	Yes	No
Develop Risk Map for the County	City of High Hill	Medium	Goal 1	Flooding	Yes	Yes	Yes
Develop Risk Map for the County	City of Jonesburg	Medium	Goal 1	Flooding	Yes	Yes	Yes
Upgrade rural water/sewer system to meet DNR standards	City of Jonesburg	High	Goal 1	Flooding	Yes	Yes	Yes
Continue to explore ways to fund tornado sirens	Village of McKittrick	High	Goal 1	Flooding	Yes	Yes	Yes
Develop Risk Map for the County	Village of McKittrick	Medium	Goal 1	Flooding	Yes	Yes	Yes
To bring a request for a generator through Region F Homeland Security Oversight Committee	City of Middletown	Medium	Goal 1	Utilities disruption, Transportation incidents, Terrorism	Yes	Yes	Yes
Develop Risk Map for the County	City of Middletown	Medium	Goal 1	Flooding	Yes	Yes	Yes
Research and apply for tornado safe room funding	City of Middletown	Medium	Goal 1	Tornadoes, High winds	Yes	Yes	Yes
To replace aging water lines to mitigate water loss and to prevent the system from becoming contaminated due to leaking lines	City of Middletown	High	Goal 2	Drought	Yes	Yes	Yes

Action	Jurisdiction	Priority	Goals Addressed	Hazards Addressed	Address Current Development	Address Future Development	Continued Compliance with NFIP
Include stormwater controls in subdivision ordinances	City of Montgomery City	Medium	Goal 1	Flooding, flash floods, heavy rains, heavy snow, hailstorms	Yes	Yes	Yes
Develop Risk Map for the County	City of Montgomery City	Medium	Goal 1	Flooding	Yes	Yes	Yes
Develop Risk Map for the County	City of New Florence	Medium	Goal 1	Flooding	Yes	Yes	No
To work with SEMA/FEMA to participate in NFIP	City of New Florence	Medium	Goal 1	Flooding	Yes	Yes	No
Upgrade rural water/sewer system to meet DNR standards	City of New Florence	High	Goal 1	Flooding	Yes	Yes	No
Develop Risk Map for the County	City of New Florence	Medium	Goal 1	Flooding	Yes	Yes	Yes
Continue to explore ways to fund tornado sirens	City of Wellsville	High	Goal 1	Flooding	Yes	Yes	Yes
Develop Risk Map for the County	City of Wellsville	Medium	Goal 1	Flooding	Yes	Yes	Yes
To provide earthquake preparedness and safety literature each year	Montgomery County R-II School District	High	Goal 1	Earthquake	Yes	Yes	No
To provide earthquake preparedness and safety literature each year	Wellsville-Middletown R-I School District	High	Goal 1	Earthquake	Yes	Yes	No
To provide earthquake preparedness and safety literature each year	Gasconade R-I School District	High	Goal 1	Earthquake	Yes	Yes	No