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1.1 Purpose

Phelps County and nine other jurisdictions prepared this local hazard mitigation plan to guide hazard mitigation planning for the purpose of better protecting the people and property of the county from the effects of natural hazard events. Hazard mitigation is defined by FEMA as "any sustained action taken to reduce or eliminate long-term risk to human life and property from a hazard event." Hazard mitigation planning is the process through which hazards that threaten communities are identified, likely impacts of those hazards are determined, mitigation goals are set and appropriate strategies to lessen impacts are determined, prioritized and implemented.

The mission of the Phelps County Hazard Mitigation Plan is to substantially and permanently reduce the county's vulnerability to natural hazards. This plan demonstrates the communities' commitment to reducing risks from hazards and serves as a tool to help decision makers direct mitigation activities and resources for the next five years. The plan is intended to promote sound public policy designed to protect citizens, critical facilities, infrastructure, private property and the natural environment. This can be achieved by increasing public awareness, documenting resources for risk reduction and loss prevention and identifying activities to guide the community towards the development of a safer, more sustainable community.

This plan was also developed to make Phelps County and participating cities and school districts eligible for certain federal disaster assistance as required by the Robert T. Stafford Disaster Relief and Emergency Act (Public Law 93-288). Those programs include the Federal Emergency Management Agency's (FEMA) Hazard Mitigation Grant Program, Pre-Disaster Mitigation Program and Flood Mitigation Assistance Program. The plan has been prepared in accordance with the requirements of the Disaster Mitigation Act of 2000 (Public Law 106-390) and developed and organized within the rules and regulations established under 44 CFR 201.6 published in the *Federal Register* on February 26, 2002 and finalized in October 31, 2007. Guidance for the development of this plan includes FEMA's Local Mitigation Planning

Handbook, March 2013 and FEMA's Local Mitigation Plan review Guide, October 1, 2011. Those jurisdictions within Phelps County that do not adopt the 2021 plan will not be eligible for funding through these grant programs.

Neither Phelps County, nor any cities in Phelps County participate in the NFIP Community Rating System (CRS).

1.2 Background and Scope

The 2021 Phelps Hazard Mitigation Plan is an update of the original plan developed and approved in 2004. The first update of the 2004 plan was approved by FEMA in 2011. The second update of the plan was approved on August 11, 2016. The revised document will be valid for five years from approval by FEMA. It is a multi-jurisdictional plan that covers the participating jurisdictions within the County's borders, all of whom adopted both the 2011 and 2016 plan, including the following:

- Phelps County
- City of Doolittle
- City of Edgar Springs
- City of Newburg
- City of Rolla
- City of St. James
- St. James R-I School District
- Newburg R-II School District
- Phelps County R-III School District
- Rolla 31 School District

The information and guidance in this plan document will be used to help guide and coordinate mitigation activities and decisions for local jurisdictions and organizations. Proactive mitigation planning will help reduce the cost of disaster response and recover to local communities and residents by protecting critical infrastructure, reducing liability exposure and minimizing overall community impacts and disruptions. Phelps County has been affected by natural disasters in the past and participating jurisdictions and organizations are committed to reducing the impacts of future incidents and becoming eligible for hazard mitigation-related funding opportunities.

1.3 Plan Organization

The plan contains a mitigation action listing, a discussion of the purpose and methodology used to develop the plan, a profile on Phelps County, as well as the hazard identification and vulnerability assessment of natural hazards. In addition, the plan offers a discussion of the community's current capability to implement the goals, objectives and strategies identified through the planning process.

The plan is organized as follows:

• Executive Summary

- Chapter 1: Introduction and Planning Process
- Chapter 2: Planning Area Profile and Capabilities
- Chapter 3: Risk Assessment
- Chapter 4: Mitigation Strategy
- Chapter 5: Plan Implementation and Maintenance
- Appendices

To assist in the explanation of the above identified contents, there are several appendices included which provide more detail on specific subjects. This plan is intended to improve the ability of Phelps County and the jurisdictions within to handle disasters and will document valuable local knowledge on the most efficient and effective ways to reduce loss.

1.4 Planning Process

44 CFR Requirement 201.6(c)(1): [The plan shall document] the planning process used to develop the plan, including how it was prepared, who was involved in the process and how the public was involved.

The Phelps County Hazard Mitigation Planning Committee first organized in 2019 when the Missouri State Emergency Management Agency (SEMA) provided grant funds and contracted with the Meramec Regional Planning Commission (MRPC) to develop a hazard mitigation plan for the county. MRPC is a council of local governments in south central Missouri serving Crawford, Dent, Gasconade, Maries, Osage, Phelps, Pulaski and Washington counties.

MRPC's role in developing and updating the Phelps County Hazard Mitigation plan included assisting in the formation of the mitigation planning committee (HMPC) and facilitating the planning meetings; soliciting public input; and producing the draft and final plan for review by the HMPC, SEMA and FEMA. Staff carried out the research and documentation necessary for the planning process. In addition, MRPC compiled and presented the data for the plan, helped the HMPC with the prioritization process and insured that the final document met the DMA requirements established by federal regulations and the most current planning guidance.

In 2019, SEMA secured a grant to develop the Phelps County Multi-Hazard Mitigation Plan and contracted with MRPC to facilitate the planning process for the plan development. MRPC staff has followed the most current planning guidance provided by FEMA for the purpose of insuring that the plan meets all of the requirements of the Disaster Mitigation Act as established by federal regulations.

The Phelps County Multi-Hazard Mitigation Plan was developed as the result of a collaborative effort among Phelps County, the City of Doolittle, City of Edgar Springs, City of Newburg, City of Rolla, City of St. James, St. James R-I School District, Newburg R-II School District, Phelps County R-III School District, Rolla 31 School District, public agencies, non-profit organizations, the private sector as well as regional, state and federal agencies. MRPC contacted and asked for volunteers to serve on the planning committee from the county and local city governments, school districts, the county health department, local businesses and utility companies. The mailing list is included in **Appendix B: Planning Process**. This cross-section of local representatives was chosen for their experience and expertise in emergency planning and

community planning in Phelps County. Staff worked with the Phelps County HMPC to collect and analyze information on hazards and disasters that have impacted the county as well as document mitigation activities that have occurred during the past five years.

Due to time and duty constraints, not all the jurisdictions that were invited to participate in the HMPC were able to attend meetings. However, all of the jurisdictions provided information to develop the document, submitted questionnaires, reviewed the plan and provided input. Interviews were conducted with stakeholders from the community and several planning meetings were conducted during the plan development.

The 2019 planning process began with a meeting held at the Phelps County Courthouse on January 30, 2020. MRPC staff provided an overview of the hazard mitigation planning process and review of the existing hazard mitigation plan. The group reviewed and discussed hazard mitigation goals and what progress had been made on hazard mitigation action items over the past four years. The group made note of those action items that had been accomplished, those that were no longer applicable and added projects to the list. The second meeting was held on June 25, 2020. The HMPC reviewed the revised list of action items and applying the STAPLEE method (Social, Technical, Administrative, Political, Legal, Economic; Environmental) and applying cost benefit analysis to best determine priorities. A full description of the prioritization process is included in Chapter 4. The group agreed to review plan chapters as they were completed through email or postings on the MRPC website. The third meeting of the HMPC was held on October 27, 2020. The HMPC reviewed the public survey results, participation requirements and status of participation of jurisdictions; reviewed and discussed draft chapters; reviewed plan maintenance and the adoption process.

The final list of prioritized action items were mailed out to all jurisdictions and entities that had been invited to participate on the HMPC. Recipients were asked to review and provide feedback if they had concerns about how any of the projects were ranked. The draft plan was made available on-line and HMPC members were notified on where to find the document and asked to review and provide feedback.

All planning committee members were provided drafts of sections of the plan as they became available. Members of the planning committee reviewed the draft chapters and provided valuable input to MRPC staff. Additionally, through public committee meetings, press releases and draft plan posting on MRPC's website, ample opportunity was provided for public participation. An internet survey was provided for the public to provide input into the process. The results of that survey are included in the appendices. Jurisdictions in surrounding counties were also notified of where to view the revised plan and encouraged to provide input. Any comments, questions and discussions resulting from these activities were given strong consideration in the development of this plan.

Phelps County further assisted in the planning process by issuing public notice of the planning meetings as well as scheduling meeting times at the County Courthouse in Rolla and during the pandemic – via internet video and conference call. County officials attended and participated in meetings.

The HMPC contributed to the planning process by:

- Attending and participating in meetings;
- Collecting data for the plan;
- Making decisions on plan content;

- Reviewing drafts of the plan document;
- Developing a list of needs:
- Prioritizing needs and potential mitigation projects; and
- Assisting with public participation and plan adoption

The HMPC did not formally meet on a regular basis as recommended in the plan. However, mitigation has become a regular topic of discussion among the majority of jurisdictions included in the plan. A number of hazard mitigation projects have been completed in the county and hazard mitigation concepts are being incorporated into other planning projects Table 1.2 provides information on who actively participated in the planning process and who they represented:

Randy Verkamp, Larry Strattman, Louis Magdits, Rachel Lucas, Doug Smith, Della Bishop, James Poucher, Phyllis Harris, Rick Krawiecki, Dr. Randy Caffey and John Fluhrer all participated indirectly by providing information, completing the jurisdictional questionnaire, participating in phone calls and email discussions and assisting with adoption of the plan.

Name	Title	Department	Jurisdiction/Agency/ Organization	Direct Participation	Indirect Participation
Randy Verkamp	Presiding Commissioner	Admin.	Phelps County		Х
Gary Hicks	Associate Commissioner	Admin.	Phelps County	Х	
Larry Strattman	Associate Commissioner	Admin.	Phelps County		Х
Pam Grow	County Clerk	Admin.	Phelps County		Х
Mike Kirn	County EMD	County Emergency Management	Phelps County	Х	
Louis J. Magdits	Mayor	Admin.	City of Rolla		Х
John Butz	City Administrator	Admin.	City of Rolla		Х
Steve Flowers	Community Development Director	Community Development	City of Rolla	Х	
Brad Woods	City EMD	Emergency Management	City of Rolla	Х	
Ron Smith	Fire Chief	Rolla Fire & Rescue	City of Rolla	Х	
William Gallion	Mayor	Admin.	City of Edgar Springs	х	
Rachel Lucas	City Clerk	Admin.	City of Edgar Springs		Х
Doug Smith	Mayor	Admin.	City of Doolittle		Х
Della Bishop	City Clerk	Admin.	City of Doolittle		X X
James Poucher	Mayor	Admin.	City of Newburg		X
Phyllis Harris	City Clerk	Admin.	City of Newburg		Х
Rick Krawiecki	Mayor	Admin.	City of St. James		Х

Table 1.2 Jurisdictional Representatives Phelps County Mitigation Planning Committee

Name	Title	Department	Jurisdiction/Agency/ Organization	Direct Participation	Indirect Participation
Lyle Thomas	Public Works Director	Public Works City of St. James		x	
John Cutsinger	Parks & Rec Director	Parks & Rec	City of St. James	х	
Ron Jones	Chief of Police	Police Dept.	City of St. James	Х	
Chad Davis	Operations Manager	Rolla Municipal Utilites	City of Rolla	х	
Cari Restine			Sho-Me Power	Х	
Doug Roberts	Chief of University Police	University Police	Missouri University of Science & Technology	Х	
Michelle Bresnahan	Director of Environmental Health & Safety	Environmental Health & Safety	Missouri University of Science & Technology	х	
Wendy Squires	Emergency Manager	Emergency Management	Phelps Health Hospital	x	
Melissa Klott		Volunteer Fire	Edgar Springs Rural Fire Protection District	Х	
Captain Eddie Blaylock	Commanding Officer of Troop I MSHP	Admin.	Missouri State Highway Patrol	x	
Steve Davis	Lieutenant		Missouri State Highway Patrol	х	
Merlyn Johnson	Superintendent	Admin.	St. James R-I School District	х	
Josh Cahill	Emergency Coordinator	Admin.	St. James R-I School District	х	
Dr. Randy Caffey	Superintendent	Admin.	Newburg R-II School District		х
John Fluhrer	Superintendent	Admin.	Phelps County R-III School District		х
Craig Hounsom	Superintendent	Admin.	Rolla 31 School District	Х	

1.5 Multi-Jurisdictional Participation

44 CFR Requirement §201.6(a)(3): Multi-jurisdictional plans may be accepted, as appropriate, as long as each jurisdiction has participated in the process and has officially adopted the plan.

Phelps County invited incorporated cities, school districts, utility companies, medical facilities, nursing facilities, county health department, and not-for-profits to participate in the hazard mitigation planning process. Press releases were sent to media. Letters and/or emails were sent to each of the following:

- Phelps County
- City of Doolittle
- City of Edgar Springs

- City of Newburg
- City of Rolla
- City of St. James

- St. James R-I School District
- Newburg R-II School District
- Phelps County R-III School District
- Rolla 31 R-IV School District
- Phelps-Maries Co. Health Dept.
- Charter Cable
- Verizon Wireless
- Fidelity Communications
- Gascosage Electric Cooperative
- Intercounty Electric Co-Op, Inc.
- Crawford Electric Cooperative
- Missouri University of Science & Technology
- Webster University
- Drury University
- Metro Business College
- East Central College
- Columbia College
- Phelps Health
- Missouri Veteran's Home
- Cedar Knoll Home
- County Valley Home
- Centurytel
- American Red Cross
- Ferndale, Inc.
- Heritage Park Skilled Care
- Lea's Haven
- Parkside Assisted Living
- Presbyterian Manor

- Rolla Manor Care
- Rosewood Residential Care
- St. James Nursing Center
- Boys & Girls Town of Missouri
- BNSF Railroad
- All Star Gas
- Ferrellgas
- St. James Ambulance
- Mark Twain National Forest
- Missouri Department of Conservation
- MoDOT
- Poe's Gas
- Walmart Distribution Center
- MoGas Pipeline LLC
- Missouri National Guard Armory
- NUSTAR Pipeline
- FM KKID Radio
- Bott Radio network
- KMNR-Radio
- Phelps County Focus
- Results Radio KZNN, KTTR, KDAA, KXMO, Shine 104.9
- Rolla Daily News
- St. James Press
- STL Public Radio (Rolla)
- Sunny 104.5

A copy of the mailing list and invitation letters are included in Appendix B: Planning Process.

The Disaster Mitigation Act requires that each jurisdiction must participate in the planning process and formally adopt the plan. There were a number of criteria established for participation. In order to be considered participating in the planning process, jurisdictions needed to do at least one of the following as well as adopt the plan:

- Providing a representative to serve on the planning committee;
- Participating in at least one or more meetings of the planning committee;
- Providing data for plan development through surveys and/or interviews;
- Identify goals and mitigation actions for the plan;
- Prioritize mitigation actions/projects for the plan;
- Review and comment on the draft plan document;
- Informing the public, local officials and other interested parties about the planning process and providing opportunities for them to comment on the plan;
- Provide in-kind match documentation; and
- Formally adopt the plan prior to submittal of the final draft to SEMA and FEMA for final approval.

Not all jurisdictions were able to attend the HMPC meetings. Most communities and school districts in Phelps County are small and understaffed. It was not always feasible for representatives to travel to the meetings. However, all jurisdictions met at least one of the participation criteria. All jurisdictions were contacted by phone and asked to complete the data collection questionnaire. In some cases, staff assisted jurisdictions with completion of the questionnaire. All jurisdictions were also contacted via email and phone regarding completion of in-kind match forms and if there were any questions regarding the information on the data collection questionnaires. The jurisdictions that participated in the process, as well as their level of participation in the process are shown in Table 1.3. Documentation of meetings, including sign-in sheets are included in Appendix B: Planning Process.

Jurisdiction	Meet- ing #1	Meet- ing #2	Meet- ing #3	Interviews	Data Collection Questionnaire/Call	Update/Develop/ Prioritize Mitigation Actions	Review/ Comment on Plan
Phelps County	Х	Х	Х	x	х	Х	х
City of Doolittle				х	Х	Х	Х
City of Edgar Springs	Х			x	x	х	х
City of Newburg					Х	Х	х
City of Rolla	Х	Х	х	X	Х	Х	Х
City of St. James	х	X	х	х	×	Х	х
St. James R-I			X		Х	Х	Х
Newburg R-II				Х	Х	Х	Х
Phelps County R-III				x	Х	Х	х
Rolla 31			Х	Х	Х	Х	Х

Table 1.3 Jurisdictional Participation in the Planning Process

1.6 The Planning Steps

Phelps County and MRPC worked together to develop the plan and based the planning process in FEMA's Local Mitigation Planning Handbook (March 2013), the Local Mitigation Plan Review Guide (October 1, 2011), and Integrating Hazard Mitigation Into Local Planning: Case Studies and Tools for Community Officials (March 1, 2013). The planning process has included organizing the county's resources, assessing the risks to the county, developing the mitigation plan and implementing the plan and monitoring the progress of plan implementation.

The planning committee based their activities on the 10-step planning process adapted from FEMA's Community Rating System (CRS) and Flood Mitigation Assistance programs. By following the 10-step planning process, the plan met funding eligibility requirements of the Hazard Mitigation Grant Program, Pre-Disaster Mitigation Program, Community Rating System and Flood Mitigation Assistance Program.

Community Rating System (CRS) Planning Steps (Activity 510)	Local Mitigation Planning Handbook Tasks (44 CFR Part 201)
Step 1: Organize	Task 1: Determine the Planning Area and Resources Task 2: Build the Planning Team 44 CFR 201.6(c)(1)
Step 2: Involve the public	Task 3: Create an Outreach Strategy 44 CFR 201.6(b)(2) & (3)
Step 3: Coordinate	Task 4: Review Community Capabilities 44 CFR 201.6(b)(2) & (3)
Step 4: Assess the hazard	Task 5: Conduct a Risk Assessment 44 CFR
Step 5: Assess the problem	201.6(c)(2)(i) 44 CFR 201.6(c)(2)(ii) & (iii)
Step 6: Set goals	
Step 7: Review possible activities	Task 6: Develop a Mitigation Strategy 44 CFR 201.6(c)(3)(i); 44 CFR 201.6(c)(3)(iii)
Step 8: Draft an action plan	
Step 9: Adopt the plan	Task 8: Review and Adopt the Plan
Step 10: Implement, evaluate, revise	Task 7: Keep the Plan Current Task 9: Create a Safe and Resilient Community 44 CFR 201.6(c)(4)

Table 1.4 Phelps County Planning Process

Step 1: Organize the Planning Team (Handbook Tasks 1 & 2)

The planning area was determined by the boundaries of Phelps County. MRPC staff provided general information on the hazard mitigation plan review process at regular MRPC board meetings – providing both written and oral reports on the review process, schedules for the various plans; which ones had been funded; described match requirements; and asked mayors and commissioners to think about who should be included on the planning committees for each respective county.

The planning team was selected by contacting the leadership of each jurisdiction, explaining the process, and asking them to send appropriate representation to the planning meetings. In addition they were asked to provide input on who they wanted to include on the planning committee. Stakeholders such as electric cooperatives and sewer districts were also contacted and invited. In addition, it was suggested that representatives of some of the local critical facilities be included on the planning committee, such as medical clinics and nursing homes. All meetings were also publicized to allow additional interested parties to attend and participate. Phelps County Commission offered to host the meetings at the courthouse and the first meeting was held there on January 30, 2020. Due to the COVID-19 pandemic, subsequent meetings were held via internet video conference and telephone conference call. The second meeting was convened on June 25, 2020 and the third on October 27, 2020.

At the first meeting on January 30, 2020, MRPC staff made introductions and provided an overview of the Phelps County Hazard Mitigation plan. The group reviewed and discussed the goals and objectives. A good deal of the meeting was spent sharing information on what progress had been made in five years and discussing current and future needs and adding new mitigation actions to the existing list. Staff offered to help those jurisdictions present with completion of their data collection surveys. The group started working on reviewing and prioritizing the action items – using both the STAPLEE method and analyzing the cost benefit.

At the second meeting on June 25, 2020, the group reviewed the complete list of action items; determined which had been completed; which should be combined; which were no longer a high or medium priority; and determined if any needed to be added. The MCP then provided input on prioritizing each of the action items. Staff took those recommendations and developed a matrix of the action items with the STAPLEE and cost benefit scores. This matrix was emailed out to all of the individuals and organizations on the mailing list for the HMPC with a request for feedback. All suggestions for changes were incorporated into the plan. MRPC staff shared the results of the public survey. The group also reviewed the list of critical facilities in the plan and provided feedback on any changes or additions to that list. It was decided that staff would share plan chapters with the HMPC as they were completed.

At the third meeting on October 27, 2020, the group went over the final results of the public survey; reviewed participation requirements and the status of all jurisdictions; reviewed and discuss those draft chapters that were completed; discussed plan maintenance and the adoption process.

Table 1.5 Schedule of HMPC Meetings outlines the dates that meetings were held and topics covered. Documentation of the planning process can be found in Appendix B: Planning Process.

Meeting	Topics	Date		
Planning Meeting #1	Overview of hazard mitigation planning purpose and Phelps County plan; grant programs linked to approved plan; participation requirements and public involvement; data collection questionnaires; discussion of hazards; critical facilities	January 30, 2020		
Planning Meeting #2	Overview of hazard mitigation planning and Phelps Co. HMP; discussion of action items for the next 5 years; prioritization of action items; road and bridge projects; integration of other data, reports, studies, and plans	June 25, 2020		
Planning Meeting #3	Review of public survey results, participation requirements and status of jurisdictions, review and discussion of draft chapters, plan maintenance and adoption process and next steps for the planning process and completion of the plan.	October 27, 2020		

Table 1.5 Schedule of HMPC Meetings

Step 2: Plan for Public Involvement (Handbook Task 3)

44 CFR Requirement 201.6(b): An open public involvement process is essential to the development of an effective plan. In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process shall include: (1) An opportunity for the public to comment on the plan during the drafting stage and prior to plan approval.

The HMPC followed the same process for public involvement and input as suggested by SEMA and FEMA and as was followed during earlier planning processes. The first HMPC meeting was held at the Phelps County Courthouse. Due to the COVID-19 pandemic, subsequent meetings were held via internet video and telephone conference call. Public notices were placed at the courthouse, and press releases were done prior to the meeting to make the public aware. Meetings were also posted on the MRPC webpage. The public was notified each time the plan or sections of the plan were presented for review and discussion. A public survey was conducted and the results shared with the HMPC. A sample of the survey and the results of the survey are included in Appendix C: Public Survey. HMPC members and public officials within the county as well as in surrounding counties were contacted, directed to the MRPC website (www.meramecregion.org) where a copy of the draft plan could be viewed or downloaded. The document was made available on the website on March 4, 2021. Hard copies of the final draft were placed at the Phelps County Courthouse. A hard copy of the draft could be obtained directly from MRPC by request. Members of the local media, both radio, newspaper and online were invited to attend planning meetings. Information was shared by these media outlets with the public on the planning process and where to find draft copies of the plan. Copies of public notices and press release are included in Appendix B. Results of the public survey are included in Appendix C: Public Survey.

No comments were received from the public other than what was found in the public survey. Which are included in the Appendices.

Step 3: Coordinate with Other Departments and Agencies and Incorporate Existing Information (Handbook Task 3)

44 CFR Requirement 201.6(b): An open public involvement process is essential to the development of an effective plan. In order to develop a more comprehensive approach to reducing the effects of natural disasters, the planning process shall include: (2) An opportunity for neighboring communities, local and regional agencies involved in hazard mitigation activities, and agencies that have the authority to regulate development, as well as businesses, academia and other private and non-profit interests to be involved in the planning process. (3) Review and incorporation, if appropriate, of existing plans, studies, reports, and technical information.

Every effort was made to encourage input from stakeholders whose goals and interests interface with hazard mitigation in Phelps County including:

- Neighboring communities
- Local and regional agencies involved in hazard mitigation activities

- Agencies with the authority to regulate development
- Businesses
- Academia
- Other private and non-profit interests

Stakeholders involved in the hazard mitigation planning process included Missouri Highway Patrol, Phelps Health, Edgar Springs Rural Fire Protection District, Missouri S&T and Sho-Me Power. No federal stakeholders were involved during the planning process. Lists of the people from the jurisdictions and stakeholders who were invited to participate in the planning process follows.

Randy Verkamp Presiding Commissioner County Phelps County Gary Hicks Associate Commissioner County Phelps County Jarry Stratman Associate Commissioner County Phelps County Jarry Stratman Associate Commissioner County Phelps County Rick Lisenbe Sherriff Sherriff's Dept. Phelps County Corporal Mike Kim EMD Emergency Management Phelps County John Butz City Administrator Admin. City of Rolla Carol Daniels City Clerk Admin. City of Rolla Steve Flowers Community Development Director Development Development City of Rolla Steve Hargis Public Works Director Public Works City of Rolla Rod municipal Parks & Rec Director Public Works City of Rolla Brady Wilson Director of Environmental Services Services City of Rolla Doug Smith Mayor Admin. City of Rolla Doug Smith Mayor Admin. City of Rolla Director of En	Name	Title	Department	Jurisdiction/Agency/Organization
Gary Hicks Associate Commissioner County Phelps County Larry Stratman Associate Commissioner County Phelps County Pam Grow County Clerk County Phelps County Rick Lisenbe Sherriff Sherriff's Dept. Phelps County Corporal Mike Kim EMD Emergency Management Phelps County Louis Magdits Mayor Admin. City of Rolla John Butz City Administrator Admin. City of Rolla Carol Daniels City Clerk Admin. City of Rolla Steve Flowers Community Development Community Director Director Development City of Rolla City of Rolla Ron Smith Fire Chief Fire & Rescue City of Rolla Rodney Bourne Public Works Director Public Works City of Rolla Brady Wilson Director of Environmental Services Services City of Rolla Brad Woods EMD Emergency Management City of Rolla Doug Smith Mayor Admin.			•	
Larry StratmanAssociate CommissionerCountyPhelps CountyPam GrowCounty ClerkCountyPhelps CountyRick LisenbeSherriffSherriff's Dept.Phelps CountyRick LisenbeSherriffSherriff's Dept.Phelps CountyCorporal Mike KimEMDEmergency ManagementPhelps CountyJohn ButzCity AdministratorAdmin.City of RollaCarol DanielsCity ClerkAdmin.City of RollaSean FaganChief of PolicePoliceCity of RollaSean FaganChief of PolicePoliceCity of RollaRodney BournePublic Works DirectorPublic WorksCity of RollaRodney BourneDirector of Environmental ServicesCity of RollaCity of RollaFloyd JerniganParks & Rec DirectorParks & RecCity of RollaBrady WilsonDirector of Environmental ServicesCity of RollaCity of RollaBrad WoodsEMDEmergency ManagementCity of RollaVincent GiancolonePolice ChiefPoliceCity of RollaJames PoucherMayorAdmin.City of DoolittleJames PoucherMayorAdmin.City of NewburgJames PoucherMayorAdmin.City of NewburgVincent GiancolonePolice ChiefPoliceCity of NewburgDurie GiancolonePolice ChiefPoliceCity of NewburgDavid SimpsonWater/Sewer SuperintendentCity of NewburgJohn Moncrief </td <td></td> <td><u> </u></td> <td></td> <td></td>		<u> </u>		
Pam GrowCounty ClerkCountyPhelps CountyRick LisenbeSherriffSherriff's Dept.Phelps CountyCorporal Mike KimEMDEmergency ManagementPhelps CountyLouis MagditsMayorAdmin.City of RollaJohn ButzCity AdministratorAdmin.City of RollaCarol DanielsCity ClerkAdmin.City of RollaSteve FlowersCommunity Development DirectorCommunity DevelopmentCity of RollaSean FaganChief of PolicePoliceCity of RollaRon SmithFire ChiefFire & RescueCity of RollaSteve HargisPublic Works DirectorPublic WorksCity of RollaRodney BourneParks & Rec DirectorParks & RecCity of RollaBrady WilsonDirector of Environmental ServicesCity of RollaBrad WoodsEMDEmergency ManagementCity of RollaDug SmithMayorAdmin.City of DoolittleVincent GiancolonePolice ChiefPoliceCity of NewburgPhyllis HarrisCity ClerkAdmin.City of NewburgDavid SimpsonWater/Sewer SuperintendentDepartment DepartmentCity of NewburgJohn MoncriefBuilding InspectorAdmin.City of NewburgDirectorCity ClerkAdmin.City of NewburgDirectorCity ClerkAdmin.City of NewburgDirectorDice ChiefPoliceCity of NewburgDirectorDice Chief<				
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Danny Scheel Street Supervisor Public Works City of St. James				
	John Cutsinger	Parks & Rec Director	Parks & Rec	City of St. James

Jurisdictional Representatives Invited to Participate in the Planning Process

Name	Title	Department	Jurisdiction/Agency/Organization
John Douglas II	Fire Chief	Fire Department	City of St. James
William Keith Gallion	Mayor	Admin.	City of Edgar Springs
Rachel Lucas	City Clerk	Admin.	City of Edgar Springs
Joe Hohner	Police Chief	Police	City of Edgar Springs
Everett Perkins	Water Superintendent	Water	City of Edgar Springs
Merlyn Johnson	Superintendent	Admin.	St. James R-I School District
Dr. Randy Caffey	Superintendent	Admin.	Newburg R-II School District
John Fluhrer	Superintendent	Admin.	Phelps County R-III School District
Dr. Aaron Zalis/ Craig Hounsom	Superintendent	Admin.	Rolla 31 School District

Stakeholder Invited to Participate in the Planning Process

Name	Title	Agency/Organization
John Richards	-	Sho-Me Power Cooperative
-	-	Charter Cable
-	-	Verizon Wireless
-	-	Fidelity Communications
Chris Mueller	-	Centurytel
Carmen Hartwell	-	Gascosage Electric Cooperative
Tony Mallory	-	Crawford Electric Cooperative
Aaron Bradshaw	-	Intercounty Electric Cooperative
Michelle Bresnahan		Missouri University of Science & Technology
Dr. Greg Edwards	-	Webster University
Kerstin Ellis		Drury University
Mary Gapsch	-	Metro Business College
Christina Ayres	-	East Central College
Cory Elfrink	-	Columbia College
Debbie Hallinar		Phelps Health
Dave Griffith		American Red Cross
Lt. Eddie Blaylock	Commander of Troop I MSHP	MO State Highway Patrol
-	Commanding Officer	Missouri National Guard
Jeff Faulkner	-	BNSF Railroad
-	-	All Star Gas
James Baalman	-	Ferrellgas
-	-	Poe's Gas
Bryan Lambeth	Director	St. James Ambulance District
-	Forest Supervisor	Mark Twain National Forest
-	-	Missouri Department of Conservation
Preston Kramer	District Engineer	Missouri Department of Transportation
-	-	Missouri Veterans' Home
-	-	Cedar Knoll Home
-	-	County Valley Home
-	-	Ferndale, Inc.
-	-	Heritage Park Skilled Care

Name	Title	Agency/Organization
-	-	Lea's Haven
-	-	Parkside Assisted Living
-	-	Presbyterian Manor
-	-	Rolla Manor Care
-	-	Rosewood Residential Care
-	-	St. James Nursing Center
-	-	Boys & Girls Town of Missouri
-	General Manager	Walmart Distribution Center
-	-	MoGas Pipeline LLC
-	-	NUSTAR Pipeline

Jurisdictional representatives on the HMPC were asked to share and solicit information from within and outside of their jurisdictions. A broad spectrum of entities other than the jurisdictions named in the plan, were invited to participate in the planning process.

The questionnaire provided to every jurisdiction asked how mitigation actions were being incorporated into other planning documents. The county road and bridge department does a good job of incorporating mitigation projects into their regular maintenance program. Those projects have been incorporated into the plan document. Hazard mitigation goals and action items have also be incorporated, where applicable, in the Community Economic Development Strategy (CEDS).

Coordination with FEMA Risk MAP Project

The Risk MAP project has begun in Phelps County. As of September 2020, SEMA was working with the US Army Corps of Engineers to update the models used to develop the county's new flood risk data. Updated flood risk data is scheduled to be shared with the county in May 2021 and Preliminary Maps should be delivered in September 2021. The county currently has DFIRM maps. Once completed, Risk MAP will provide mitigation planning support in a variety of ways including helping in the assessment of risks and identifying action items to reduce vulnerability. In addition, this project will provide tools to improve the understanding of risk by local officials and the general public.

Figure 1.1 illustrates the current status of Missouri counties in regards to RiskMap projects.



Figure 1.1. Map of RiskMAP Projects

Integration of Other Data, Reports, Studies and Plans

The HMPC researched available plans, studies, reports and technical information during development of the Update. The intent was to identify existing data and information, shared objectives and past and ongoing activities that would add to the Update. The goal was to identify the existing capabilities and planning mechanisms to implement the mitigation strategy. Phelps County is a rural area with the largest community's population at approximately 5,365. Phelps County is home to Fort Leonard Wood, an Army installation with an estimated population of 15,061¹ Not all of the participating communities have planning or zoning, subdivision regulations or other mechanisms for controlling the development of land. Some of the jurisdictions do have ordinances and planning documents. Following is a list of the documents that were reviewed:

- Local planning and zoning ordinances
- County EOP
- Crisis Plans (school districts)

¹ <u>www.city-data.com/city/Fort-Leonard-Wood-Missouri.html</u>

- Comprehensive plans
- Economic development plans
- Capital improvement plans
- Regional Transportation Plan
- Floodplain management ordinances and flood Insurance Risk Maps (FIRMs)

In addition to information available from local jurisdictions, a number of data sources, reports, studies and plans were used in updating the plan. Every attempt was made to gather the best available data to develop the vulnerability assessment and identify assets in the county. The Missouri State Hazard Mitigation Plan (2018) was reviewed and referenced throughout the document. Other data sources included dam information from the Missouri Department of Natural Resources and National Inventory of Dams (NID); fire reports from state agencies; Wildland/Urban Interface and Intermix data from the SILVIS Lab – Department of Forest Ecology and Management – University of Wisconsin; the Community Economic Development Strategy (CEDS); capital improvement plans from the participating jurisdictions; historic weather data and damage estimates from the National Oceanic and Atmospheric Administration; the critical facilities inventory conducted by MRPC; and road and bridge department plans/budgets.

All documents were reviewed so that the HMPC would have a broad foundation of data upon which to base the planning area's risk assessment. Information from these documents and data sources are incorporated into the plan as indicated throughout the document.

Step 4: Assess the Hazard: Identify and Profile Hazards (Handbook Task 5)

The HMPC reviewed the hazards that affected Phelps County at the first planning meeting on January 30, 2020 including discussions of any hazard events that occurred during the last twenty years and all of the hazards included in the Missouri Hazard Mitigation plan. A variety of sources were used to identify and profile hazards. These included U.S. Census data, GIS data, HAZUS, the Missouri Spatial Data Information Service (MSDIS), statewide datasets compiled by state and federal agencies, existing plans and reports, personal interviews with HMPC members and the questionnaire completed by each jurisdiction. Every effort was made to use the most current and best data available. Additional information on the risk assessment and the conclusions drawn from the available data can be found in Chapter 3.

Step 5: Assess the Problem: Identify Assets and Estimate Losses

Assets for each jurisdiction were identified based on responses to the data collection questionnaire distributed to all jurisdictions, interviews with HMPC members and the critical facilities inventory conducted by MRPC. Additional sources included U.S. Census, GIS data, MSDIS and HAZUS.

Losses were calculated using HAZUS and the Missouri State Hazard Mitigation plan data and the most recent U.S. census data available. Values reflected in the plan are on structures only and do not include land values.

Jurisdictions provided information on their regulatory, personnel, fiscal and technical abilities by completing the data collection questionnaire. The vulnerability assessment was completed using estimates from the 2018 State plan. For more information on planning area profiles and capabilities, please see Chapter 2.

Step 6: Set Goals (Handbook Task 6)

The goals from the initial hazard mitigation plan were reviewed at the first planning meeting on January 30, 2020. Those goals are as follows:

Goal 1: Reduce risks and vulnerabilities of people in hazard-prone areas through current technology, better planning and hazard mitigation activities.

Goal 2: Reduce the potential impact of natural disasters on new and existing properties and infrastructure and the local economy.

Goal 3: Promote education, outreach, research and development programs to improve the knowledge and awareness among the citizens and industry about hazards they may face, their vulnerability to identified hazards, and hazard mitigation alternatives that can reduce their vulnerabilities.

Goal 4: Strengthen communication and coordinate participation between public agencies, citizens, non-profit organizations, business, and industry to create a widespread interest in mitigation.

Goal 5: Establish priorities for reducing risks to the people and their property with emphasis on long-term and maximum benefits to the public rather than short-term benefit of special interests.

Goal 6: Secure resources for investment in hazard mitigation.

Step 7: Review Possible Mitigation Actions and Activities

Mitigation strategy and specific action items were discussed at the first and second HMPC meetings. At the first HMPC meeting the group reviewed the list in the existing plan and decided which actions could be eliminated; what could be combined; what needed to remain on the list; and what needed to be added. It was emphasized that any mitigation actions in the plan that were not likely to be accomplished, due to cost factors or that did not address the risks identified in the risk assessment, should be removed from the list.

Discussions also included mitigation activities that had been completed or were in process that had not been in the original plan document. Each jurisdiction and stakeholder group was asked to provide information about mitigation activities that were needed as well as those that had been accomplished over the past five years. Meeting facilitators offered to share ideas for mitigation projects from the FEMA publication *Mitigation Ideas: As Resource for Reducing Risk to Natural Hazards (January 2013)* to help stimulate ideas and discussion.

Staff received proposed road and bridge mitigation projects that needed to be addressed from the County Associate Commissioners on February 24, 2021.

In order to prioritize action items, the HMPC was asked to use the STAPLEE method as well as assign a cost benefit to each activity. This allowed the group to consider a broad range of issues in order to decide which actions should be considered high, moderate or low priority. The prioritization process used by the HMPC is explained as follows:

STAPLEE stands for the following:

- **Social:** Will the action be acceptable to the community? Could it have an unfair effect on a particular segment of the population?
- **Technical:** is the action technically feasible? Are there secondary impacts? Does it offer a long-term solution?
- Administrative: Are there adequate staffing, funding and maintenance capabilities to implement the project?
- **Political:** Will there be adequate political and public support for the project?
- Legal: Does your jurisdiction have the legal authority to implement the action?
- **Economic:** is the action cost-beneficial? Is there funding available: Will the action contribute to the local economy?
- **Environmental:** Will there be negative environmental consequences from the action? Does it comply with environmental regulations? Is it consistent with community environmental goals?

Each question was scored based on a 0 to 3 point value system:

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

For the Benefit/Cost Review portion of the prioritization process, these two aspects were scored as follows:

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

- Injuries and/or casualties
- Property damages
- Loss-of-function/displacement impacts
- Emergency management costs/community costs

Cost – points were subtracted according to the following cost scale (-5 points maximum = highest cost)

- (-1) = Minimal little cost to the jurisdiction involved
- (-3) = Moderate definite cost involved but could likely be worked into operating budget
- (-5) = Significant cost above and beyond most operating budgets; would require extra appropriations to finance or to meet matching funds for a grant

Note: For the Benefit/Cost Review, the benefit and cost of actions which used the word "encourage" were evaluated as if the action or strategy being encouraged was actually to be carried out.

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

<u>Priority Scale</u> – To achieve an understanding of how a Total Score might be translated into a Priority Rating, a sample matrix was filled out for the possible range of ratings an action might receive on both the STAPLEE and Benefit/Cost Review. The possible ratings tested ranged between:

- A hypothetical action with "Half probably NO and half maybe YES" answers on STAPLEE (i.e. poor STAPLEE score) and Low Benefit/High Cost: Total Score = 7
- A hypothetical action with "All definitely YES" on STAPLEE and High Benefit/Little Cost: Total Score = 28

An inspection of the possible scores within this range led to the development of the following Priority Scale based on the Total Score in the STAPLEE- Benefit/Cost Review process:

20 – 28 points = High Priority 14-19 points = Medium Priority 13 points and below = Low Priority

The benefit portion of the prioritization process helped the HMPC focus on long-term mitigation solutions that demonstrated the future cost savings that could be realized by completing mitigation projects that safeguard lives and protect property.

Finally, action items were reviewed to determine if they met the SMART criteria as provided by SEMA and FEMA: **S**pecific, **M**easurable, **A**chievable, **R**elevant, **T**ime-bound.

Step 8: Draft an Action Plan

The HMPC reviewed the final list of action items at the January 30, 2020 meeting and completed their review and the prioritization process of the final list at the June 25, 2020 meeting. The final list was then mailed out to all jurisdictions and members of the HMPC for review and approval as everyone was not able to attend the meeting. Staff was directed by the HMPC to take the finalized list after allowing time for comments and draft an action plan.

Step 9: Adopt the Plan (Handbook Task 8)

When the first draft of the plan was completed, staff posted the document on the MRPC website and provided a hard copy to the county courthouse. All HMPC members, jurisdictions and surrounding jurisdictions were notified on where to find a copy of the plan to review. If requested, additional hard copies of the plan document were provided. After allowing time for comments, a letter was mailed out to all jurisdictions asking them to formally adopt the plan and providing a sample adoption resolution. A deadline was provided in order to insure receipt of adoption resolutions prior to submitting a final draft to FEMA for approval.

Step 10: Implement, Evaluate, and Revise the Plan (Handbook Tasks 7 & 9)

At all three planning meetings (January 30, 2020, June 25, 2020 and October 27, 2020) MRPC staff advised the HMPC and participating jurisdictions of the importance of continuing to meet periodically to discuss implementation of the plan as well as monitoring and maintaining the plan into the future. Chapter 5 provides details on Phelps County's strategy for implementation, evaluation and revising the plan.