

Appendix E: Bowling Green R-1 School District Addendum

E-1: Introduction and Planning Process

E-1.1 Purpose

The *Pike County 2017 Multi-Jurisdictional Hazard Mitigation Plan* is an updated version of the 2012 Pike County Multi-Jurisdictional Hazard Mitigation Plan developed in conformance with the requirements of the Disaster Mitigation Act of 2000. Planning activities for the plan update were completed for Pike County, municipalities and school districts throughout 2016. The Pike County Multi-Jurisdictional Hazard Mitigation Plan has been adopted by Plan participants and was approved by FEMA on May 24, 2017.

E-1.2 Background and Scope

All school districts, incorporated communities, and other districts were invited to participate in the Plan update process. Although many representatives were present at the Plan update kick-off meeting and informed of the Plan participation requirements and benefits of mitigation planning, the Bowling Green R-1 School District did not participate in the planning process. The district had relied on a consulting architecture firm for guidance on improvement projects and was not aware of the local mitigation plan requirement until the firm suggested that they apply for a hazard mitigation grant. As a result they only became aware of the need for a local mitigation plan after the planning process and update to keep the Plan current had been completed. District administrators have become aware of the need for local hazard mitigation plans and are seeking to be added as a participating jurisdiction in the approved Pike County 2017 Multi-Jurisdictional Hazard Mitigation Plan. To date, the district has not been included as a participating jurisdiction in any of the previous iterations of the Hazard Mitigation Plan for Pike County.

E-1.3 Plan Organization

The Plan addendum for the Bowling Green R-1 School District follows the Plan Organization and Planning Steps present in Part 1: Introduction and Planning Process of the Pike County 2017 Multi-Jurisdictional Hazard Mitigation Plan on page 1-2 in the main body of the Plan.

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 Mark Twain Regional Council of Governments (MTRCOG) was contacted to facilitate the plan addendum development process. MTRCOG staff was contacted by Bowling Green R-1 School District staff on August 20, 2019 regarding inclusion in the 2017 Plan update for Pike County as a participating jurisdiction. MTRCOG staff informed the District of the potential for developing an addendum to the main body of the Plan since the planning process for the 2017 Plan had been concluded and the Plan had been submitted to SEMA for approval. District staff were informed the addendum process must follow the steps and participation requirement for jurisdictions that had participated in the 2017 Plan. Subsequent email conversations with district staff served as the initial scoping meeting of the addendum project coinciding with the initial information meeting with Pike County Commissioners cited in the Planning Process section in the main body of the Plan on page 1-4. Potential meeting locations and schedule were discussed as well as strategies for including the public. The planning process included the planning meeting that would be advertised as a public meeting. MTRCIG staff would also be responsible for producing the draft and final plan addendum in an approvable document and coordinating with the Missouri State Emergency Management Agency (SEMA) and FEMA for plan reviews.

Specific information about agenda items for the MPC meetings are presented in Section 1.4.2 in the main body of the Plan. The MTRCOG staff were responsible for soliciting public involvement in the planning process. A Pike County Hazard Mitigation Plan meeting for the Bowling Green R-1 School District local mitigation plan addendum was conducted on October 14, 2019 at the district's central office in Bowling Green, Missouri. The content of the meeting coincided with the agenda items for the Kick-Off meeting for the main Plan in Section 1.4.2. This meeting combined agenda items for the MPC meeting listed in Section 1.4.2 of the main Plan. This meeting was posted on the MTRCOG website and advertised as an open meeting at the school and at the Pike County Courthouse. Exhibit B provides documentation of the planning process including public involvement solicitation and meeting notices.

A final draft of the Plan was posted on the MTRCOG website on October 15, 2019 before the Plan was submitted for SEMA/FEMA approval. A press release was sent to the Bowling Green Times notifying news outlets the Plan addendum was available for comment and review. Input from the neighboring jurisdictions was solicited via mail through the distribution list created for the main Plan which included community representatives and elected officials. Documentation is included in Exhibit B. Table E-1.1 is a list of local jurisdiction representatives that attended meetings and participated on the MPC for the Plan addendum.

Table 1: Jurisdictional Representatives Bowling Green Schools Mitigation Planning Committee

Name	Title	Organization
Matt Frederickson	Superintendent	Bowling Green R-1 School
Jayne Yoder	Executive Secretary	Bowling Green R-1 School
Jamie Baker	Elementary School Nurse	Bowling Green R-1 School
Bill Francis	Maintenance Director	Bowling Green R-1 School
Reese St. Clair	Technology Director	Bowling Green R-1 School
Stephen Hunter	Curriculum Director	Bowling Green R-1 School
Janese Bibb	Special Services Director	Bowling Green R-1 School
David Koogler	Middle School Principal	Bowling Green R-1 School

E-1.4.1 Multi-Jurisdictional Participation

In order to be included as a participant in the main Plan, jurisdictional representatives were required to attend the planning meeting. In addition, each participating jurisdiction must have provided sufficient information to support plan development by completing and returning the data collection questionnaire. These two requirements were established as the minimum for jurisdictional participation. Bowling Green R-1 School met and exceeded this minimum during the addendum planning process as established in Table E-1.2 below.

Table 2: Jurisdictional Participation in the Planning Process

Jurisdiction	Planning Meeting	Data Collection Questionnaire	Review of Mitigation Actions	Review and Comment on Plan Draft
Bowling Green School	X	X	X	X

E-1.4.2 Planning Steps

The Bowling Green R-1 School District addendum to the main Pike County 2017 Multi-Jurisdictional Hazard Mitigation Plan closely followed and benefited from the planning steps undertaken and listed in section 1.4.2 of the main body of the plan.

E-2: Planning Area Profile and Capabilities

E-2.1 Planning Area Profile

The Bowling Green R-1 School District is located in the center of Pike County, Missouri. The district lies completely within Pike County. All of the District's facilities are located in the City of Bowling Green and Frankford. Information specific to Bowling Green is located in Section 2.1 of the Planning Area Profile and Capabilities section in the main body of the Plan. The Bowling Green R-1 School District encompasses a large portion of rural Pike County.

Figure 1: Bowling Green School District Location in Pike County



Figure 2: Bowling Green School District Location in Pike County



E-2.2 Bowling Green R-1 School District Capabilities

All of Bowling Green School District facilities are located within the City of Bowling Green. Table 2.2 provides building and school enrollment information for Bowling Green Schools.

Table 3: School District and Enrollment Data, Bowling Green R-1

Building Name	Address	Building Enrollment
Frankford Elementary	500 School Street, Frankford	127
Bowling Green Elementary	700 W. Adams, Bowling Green	572
Bowling Green Middle	700 W. Adams, Bowling Green	314
Bowling Green High School	700 W. Adams, Bowling Green	403

Bowling Green R-1 Schools are governed by a Board of Education consisting of the Board President and six (6) Board members. The District serves over 1,400 (127 located in Frankford) students and employs approximately 183 teachers and staff. District departments include:

- Central Office
- Special Services
- Technology
- Transportation
- Curriculum
- Food Service

The District is currently exploring the integration of a safe room construction into the school campus to provide adequate shelter to 1,300 students currently housed on the Bowling Green Campus. District enrollment is expected to increase by 2% -3% over the next five years. Table 4 provides responses to the data collection questionnaire for school districts.

Table 4: Data Collection Questionnaire

Capability	Status Including Date of Document or Policy
Planning Elements	
Master Plan/Date	Adopted 2019
Capital Improvement Plan/Date	Adopted 2019
School Emergency Plan	Adopted 2019
Weapons Policy/Date	MSBA Policy 2019
Personnel Resources	Status Including Date of Document or Policy
Full-Time Building Official	Principals
Emergency Manager	Superintendent
Grant Writer	Assistant Superintendent
Public Information Officer	Assistant Superintendent

Financial Resources	Status Including Date of Document or Policy
Capability	Status Including Date of Document or Policy
Capital Improvements Project Funding	Capital improvements are tied to 3.2 million Bond
Local Funds	Local Funds are distributed to 2019-20 budget items.
General Obligation Bonds	Bonds are obligated to April 2019 Bond issue
Special Tax Bonds	None
Private Activities Donations	None
State and Federal Grant Funds	Grant funds are obligated by 2019-20 Appropriations
Other	
Fire Evacuation Training	Ongoing 2019
Tornado Sheltering Exercises	Ongoing 2019
Public Address/Emergency Alert System	Updated 2019
NOAA Weather Radios	Utilized 2019
Tornado Shelter/Saferoom	None
Campus Police	Added School Resource officer 2017

E-3: Risk Assessment

E-3.1 Hazard Identification

This addendum to the Pike County 2017 Multi-Jurisdictional Hazard Mitigation Plan addresses natural hazards that may affect the Bowling Green R-1 School District. Human-caused or technological hazards were not addressed in the main body of the Plan. The Risk Assessment in the main body of the plan contains hazard profiles for all identified natural hazards that can affect Pike County. Table E-3.1 provides a summary of those hazards that may affect the Bowling Green R-1 School District. An “x” in the table indicates that the District is affected by the hazard a “-“indicates that the hazard is not applicable.

Table 5: Hazards Identified for Bowling Green School District

Jurisdiction	Dam Failure	Drought	Earthquake	Extreme Temperature	Wildfire	Flooding	Land Subsidence/ Sinkholes	Severe Winter Weather	Thunderstorm	Tornado
Bowling Green R-1 School District	-	-	x	x	-	-	-	x	x	x

E-3.2 Assets at Risk

This section assesses the planning area population, structures, critical facilities and infrastructure, and other important assets that may be at risk to hazards. The inventory of assets for the Bowling Green R-1 School District was derived from the data collection questionnaire and insured replacement costs for structures and facilities. Table 6 contains the assets at risk for the District.

Table 6: Population and Building Exposure for Bowling Green R-1 School District

Public School District	Enrollment	Building Count	Building Exposure	Contents Exposure	Total Exposure
Bowling Green R-1 School District	1,416	12	\$37,054,604	\$511,066	\$42,155,730

E-3.3 Future Land Use and Development

Enrollment in the Bowling Green R-1 School District is expected to increase by 2% -3% over the next five years. In the last five years the District has made improvements to the all four schools. The District is planning on integrating a FEMA saferoom in on the Bowling Green School Campus within the next five years.

E-3.4 Hazard Profiles, Vulnerability and Problem Statements

The hazard profiles are organized under subsections for hazard description, location severity/magnitude/extent, previous occurrences and probability of future occurrence. The profiles for each hazard can be found on the following pages of Part 3 in the main body of the Plan:

- Dam Failure
- Drought
- Earthquake
- Extreme Temperature
- Wildfire
- Flooding (Riverine and Flash)
- Land Subsidence/Sinkholes
- Thunderstorm/High Winds/Hail/Lightning
- Tornado
- Winter Weather/Snow/Ice/Severe Cold

Vulnerability Overview for Bowling Green R-1 School District

Dam Failure- No school district facilities are located within inundation area or downstream environments of existing dams.

Drought- There are no potential losses to existing facilities. School districts would be the least effected jurisdictions to drought.

Earthquake- Improvements to existing facilities in the District would have limited damage from ground shaking. In addition, most school facilities are considered well-built structures. Total exposure was used to estimate losses from a 7.6 magnitude earthquake along the New Madrid fault. A damage factor of 0.5% was applied to all jurisdictions in the main body of the plan. Table 7 provides the potential damage estimate for the District.

Table 7: Estimated Potential Earthquake Losses

Jurisdiction	Potential Earthquake Losses
Bowling Green R-1 School District	\$43,200,000

Extreme Temperatures- People most at risk to extreme heat are children under 5 years of age and over 65, as well as those who work outdoors. School districts are not considered vulnerable to extreme temperatures because students and staff are not customarily within these groups.

Wildfire- There are no District facilities within wildfire prone areas.

Flooding (Riverine and Flash)- There is no heightened risk to the District due to flooding. No District facilities lie in Special Flood Hazard Areas and no previous damages were reported by the District. Most of the hazards profiled are regional events and have no defined hazard prone areas.

Land Subsidence/Sinkholes- Bowling Green R-1 School District facilities all lie in an area with no recorded land subsidence or sinkholes.

Thunderstorm/High Winds/Lightning/Hail- The Bowling Green R-1 School District buildings were built in 1966 and 1993 and can withstand thunderstorms and high winds. Retrofitting school district facilities with protective filming of windows and installation of blast proof doors will provide more protection for students and staff at school facilities.

Tornado- In the main body of the Plan, potential losses to existing development for jurisdictions was calculated by applying a 1% damage factor to total exposure. Table 8 contains estimated tornado losses for Bowling Green R-1 Schools.

Table 8: Estimated Potential Tornado Losses for Bowling Green R-1 Schools

Jurisdiction	Potential Tornado Losses
Bowling Green R-1 School District	\$43,200,000

The District is planning to construct a FEMA saferoom at their Bowling Green Campus in the next five years.

Winter Weather/Snow/Ice/Severe Cold- School Districts close during periods of extreme winter weather. This minimizes the risk of weather related accidents on roadways. Some school districts have been closed for long periods of time. The risk to school districts to severe winter weather is limited to structural damages to facilities. There are no reports of damages to school facilities due to severe winter weather in Pike County.

E-4: Mitigation Strategy

E-4.1 Goals

The goals and objectives of the Pike County 2017 Multi-jurisdictional Hazard Mitigation Plan are presented in the main body of the Plan on page 4-1.

E-4.2 Identification and Analysis of Mitigation Actions

This section is the main body of the Plan and describes the process the MPC used for deleting or keeping actions from the 2017 Plan. This section does not apply to the Bowling Green R-1 School District as the District has not participated in any of the previous updates. The District identified an action item for inclusion in the Appendix to the 2017 Plan

E-4.3 Implementation of Mitigation Actions

The STAPLEE Criteria and Action Worksheets used for the cost benefit review and implementation schedule for Bowling Green R-1 School identified action are presented in the main body of the Plan on pages 4.13 and 4.14.

The following is the action item for the Bowling Green R-1 School District.

Action Worksheet	
Name of Jurisdiction:	Bowling Green R-1 School District
Risk / Vulnerability	
Hazard(s) Addressed:	Earthquake, Severe Thunderstorm, Severe Winter Weather, Tornado
Problem being Mitigated:	Storm shelter to offer protection to students and staff.
Action or Project	
Applicable Goal Statement:	<u>Goal 3</u> Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.
Action/Project Number:	PCHM 1727
Name of Action or Project:	Building Storm Shelter
Mitigation Category:	Prevention; Structure and Infrastructure Projects
Action or Project Description:	If and when the Moberly School District #81 has new construction planned, a tornado storm shelter will be considered. The project would be to build a storm shelter to allow for a safe place in the event of a storm or other events as funds become available.
Estimated Cost:	\$2,000,000.00
Benefits:	Storm Shelter offers a safe place for students and staff to go in the event of an emergency.
Plan for Implementation	
Responsible Organization/Department:	Bowling Green R-1 School District
Action/Project Priority:	High
Timeline for Completion:	Three years
Potential Fund Sources:	Local funds and grants
Local Planning Mechanisms to be Used in Implementation, if any:	Hazard Mitigation Plan
Progress Report	
Action Status:	New
Report of Progress:	N/A

Exhibit A: Bowling Green R-1 Hazard Mitigation Plan Adoption Resolution

Hazard Mitigation Resolution

Resolution # 0011

Adopting the Pike County Multi-Jurisdictional Local Hazard Mitigation Plan

Whereas, the Bowling Green R-1 School District recognizes the threat that natural hazards pose to people and property within our community; and

Whereas, undertaking hazard mitigation actions will reduce the potential for harm to people and property from future hazard occurrences; and

Whereas, the U.S Congress passed the Disaster Mitigation Act of 2000 ("Disaster Mitigation Act") emphasizing the need for pre-disaster mitigation of potential hazards;

Whereas, the Disaster Mitigation Act made available hazard mitigation grants to state and local governments; and

Whereas, an adopted Local Hazard Mitigation Plan is required as a condition of future funding for mitigation projects under multiple FEMA pre- and post-disaster mitigation grant programs; and

Whereas, the Bowling Green R-1 School District fully participated in the hazard mitigation planning process to prepare this Multi-Jurisdictional Local Hazard Mitigation Plan; and

Whereas, the Bowling Green R-1 School District desires to comply with the requirements of the Disaster Mitigation Act and to augment its emergency planning efforts by formally adopting the Pike County Multi-Jurisdictional Local Hazard Mitigation Plan; and

Whereas, adoption by the governing body for the Bowling Green R-1 School District demonstrates the jurisdictions' commitment to fulfilling the mitigation goals outlined in this Multi-Jurisdictional Local Hazard Mitigation Plan; and

Whereas, adoption of this legitimizes the plan and authorizes responsible agencies to carry out their responsibilities under the plan;

Now, therefore, be it resolved, that the Bowling Green R-1 School District adopts the "Pike County Multi-Jurisdictional Local Hazard Mitigation Plan" as an official plan; and

Be it further resolved, the Bowling Green R-1 School District will submit the updated plan along with this Adoption Resolution to the Missouri State Emergency Management Agency and Federal Emergency Management Agency Region VII officials to enable the plan's final approval.

Date: 10/10/2018

Certifying Official: James A. Hines

Exhibit B: Public Involvement Documentation

- Press Release Notice of Public Comment
- Notice to Neighboring Jurisdictions
- Meeting Sign-in Sheets
- Meeting PowerPoint
- Meeting Documentation
- Pike County Commission Minutes
- Data Collection Questionnaire

Cindy

From: Cindy <hultzcog@rallstech.com>
Sent: Wednesday, October 9, 2019 5:25 PM
To: 'slenk@pikecountynews.com'
Subject: Press Release
Attachments: Press Release.docx

Hello Shannon-

Please publish the attached press release in next week's addition of the Bowling Green Times.

If you have any questions please do not hesitate in contacting me.

Thanks,

Cindy Hultz
Executive Director

Mark Twain Regional Council of Governments
42494 Delaware Lane
Perry, MO 63462
573-565-2203
www.marktwaincog.com

Pike County Hazard Mitigation Plan Revision Open for Public Input

The Public is encouraged to review and comment on the Pike County Multi-jurisdictional Hazard Mitigation Plan and the added Appendix for the Bowling Green R-1 School. The plan was created to develop a strategy to reduce damage and losses caused by natural hazard events. The plan is available on the Mark Twain Regional Council of Governments website. The purpose is to provide information to the public on the Multi-jurisdictional Hazard Mitigation Plan as well as gain public input.

Tax payers pay billions of dollars each year for disaster recovery. Some events are predictable, and often, damages can be reduced or eliminated. The Federal Disaster Act of 2000 requires communities to develop an approved local hazard mitigation plan to remain eligible for certain federal funding.

In 2017 the Planning committee addressed 11 natural hazards- ranging from flooding and tornadoes to severe winter storms- and considered the impacts of those events on local communities. Based on the results of a risk assessment of the hazards, committee members suggested ways for their jurisdictions to reduce damages caused by the various hazards.

An Appendix is being added to the plan to include the Bowling Green School as a participating jurisdiction and an action item for the school district. The addition of the Appendix will be sent to the Missouri State Emergency Management Agency and FEMA for final approval. Your comments will be incorporated into the plan, as appropriate.

The plan is available online at: www.marktwaincog.com. For more information on this revision to the plan, or to provide your comments, please contact Cindy Hultz at 573-565-2203 or via email at hultzcog@rallstech.com.

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Perry, MO 63462

City of Louisiana
202 S. 3rd Street
Louisiana, MO 63353

FIRST-CLASS



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City of Frankford
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PIKE COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN




ADDENDUM MEETING FOR
BOWLING GREEN R-1 SCHOOL
OCTOBER 14, 2019

Project Planner: Cindy Hultz, Executive Director, Mark Twain Council of Governments

1


AGENDA



- Hazard Mitigation Planning Purpose
- Grant Programs Linked to Approved Plan
- Planning Tasks / Multi-jurisdictional Approach
- Public Involvement
- Data Collection Questionnaires
- Discussion of Hazards
- Update Mitigation Goals
- Discuss Mitigation Action Updates
- Plan Adoption

2


WHAT IS MITIGATION?




- Sustained action taken to reduce or eliminate long-term risk to human life and property from hazard events
- Mitigation planning is a process for communities to:
 - Identify the hazards to which they are at risk;
 - Assess the potential impacts of those hazards;
 - Develop goals, objectives, and actions to reduce impacts; and
 - Prioritize and implement mitigation actions.

3

DISASTER MITIGATION ACT OF 2000 (DMA 2K)




- Requires local governments to adopt a natural hazard mitigation plan to maintain eligibility for FEMA mitigation funds.
- Plan must be updated and approved by FEMA every 5 years.
- This is an update to the existing 2017 Pike County Multi-jurisdictional Hazard Mitigation Plan.




4

APPROVED HAZARD MITIGATION PLAN ESTABLISHES ELIGIBILITY FOR FEMA HMA GRANTS



- Hazard Mitigation Grant Program
- Pre-Disaster Mitigation Program
- Flood Mitigation Assistance Program
 - Repetitive Loss Program




5

HAZARD MITIGATION GRANT PROGRAM



- The Hazard Mitigation Grant Program (HMGP) provides grants to States and local governments to implement long-term hazard mitigation measures after a major disaster declaration.
- Equal to 15 percent (20 percent for Enhanced Plan State) of the first \$2 billion of estimated aggregate amounts of disaster assistance—based on a sliding scale formula after the first \$2 billion.
- Eligible applicants are state agencies, local governments, private non-profit organizations, or Indian tribal governments.
- **An approved local mitigation plan is required.**


6



PRE-DISASTER MITIGATION PROGRAM

- Annual Appropriation
- Nationally Competitive Grant
- 75% federal & 25% non-federal match
- **An approved local mitigation plan is required.**


7



FLOOD MITIGATION ASSISTANCE PROGRAM

- Annual Appropriation
- Sub-applicant must participate in National Flood Insurance Program (NFIP)
- NFIP insured property
- 75% federal & 25% non-federal match
- **An approved local mitigation plan is required.**

8



9 TASKS TO COMPLETE THE PLAN UPDATE

- Task 1: Determine the Planning Area and Resources
- Task 2: Build the Planning Team
- Task 3: Create an Outreach Strategy
- Task 4: Review Community Capabilities
- Task 5: Conduct a Risk Assessment
- Task 6: Develop a Mitigation Strategy
- Task 7: Review and Adopt the Plan
- Task 8: Keep the Plan Current
- Task 9: Create a Safe and Resilient Community


9



HAZARD MITIGATION PLANNING COMMITTEE

<p><u>Jurisdictions</u></p> <ul style="list-style-type: none"> • Emergency Responders • County Clerks • City Clerks • Elected Officials • Public Works Directors • Floodplain Managers • Stormwater Mangers • County And City Planners • Economic Development Directors • GIS Staff • School Principals • School Facilities Directors • School Superintendents 	<p><u>Stakeholders</u></p> <ul style="list-style-type: none"> • Business Partners • Private-non-profits • State Agencies <ul style="list-style-type: none"> –SEMA –Missouri Department of Natural Resources –Missouri Department of Transportation • Federal Agencies <ul style="list-style-type: none"> –Federal Emergency Management Agency • Local/Regional Agencies
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10



BENEFITS OF PARTICIPATING IN A MULTI-JURISDICTIONAL PLAN

- Enables comprehensive approach to mitigate hazards that affect multiple jurisdictions;
- Shares costs and resources;
- Avoids duplication of efforts;
- Improves coordination/communication among local jurisdictions; and
- Imposes external framework/schedule on process.


11



PUBLIC INVOLVEMENT REQUIREMENTS

- 1. During Drafting Stage inform the public
 - Hard Copies—City Halls
 - Link on County Website
 - Article in the newspaper
- 2. Prior to approval Draft Available via County Website and Mark Twain COG website
Hard Copies-was available in at least two public locations


12



DATA COLLECTION QUESTIONNAIRES

➤ School Needs to complete form

13




HAZARD IDENTIFICATION AND RISK ASSESSMENT

- Hazard Profile
 - Hazard Description
 - Geographic Location
 - Severity/Magnitude/Extent
 - Previous Occurrences
 - Probability of Future Occurrence
- Vulnerability Assessment
 - Vulnerability Overview
 - Potential Losses to Existing Development
 - Future Development
 - Hazard Summary by Jurisdiction
- Problem Statement

Based on existing plan, additional information from planning committee, additional research/analysis

14



NATURAL HAZARDS FOR CONSIDERATION


- Natural Flood-Related Hazards
 - Flooding
 - Levee Failure
 - Dam Failure
- Natural Geologic Hazards
 - Earthquake
 - Land Subsidence / Sinkholes
- Natural Meteorological Hazards
 - Drought
 - Extreme Temperature
 - Severe Thunderstorms
 - Severe Winter Weather
 - Tornadoes
- Natural Other Hazard
 - Wildfire

15



MITIGATION STRATEGY UPDATE: MITIGATION GOALS AND ACTIONS

16




MITIGATION STRATEGY: GOALS AND ACTIONS

➤ Goals: Describe the overall direction of the plan

➤ Actions: Describe specific activities or projects designed to achieve goals

17



PIKE COUNTY PLAN GOALS

1. Protect the lives and livelihood of all the citizens.
2. Decrease the impact of natural hazards.
3. Ensure continued operation of government and emergency function in a disaster.

18



19

Cindy

From: Cindy <hultzcog@rallstech.com>
Sent: Wednesday, October 9, 2019 5:36 PM
To: 'Matthew Frederickson'; 'Stephen Hunter'
Subject: Agenda
Attachments: Meeting Agenda.doc

Please post the attached agenda in a prominent location for the Pike County Multi-Jurisdictional Hazard Mitigation Plan Addendum Meeting scheduled for October 14, 2019 at 1:00 p.m.

Thanks,

Cindy Hultz
Executive Director

Mark Twain Regional Council of Governments
42494 Delaware Lane
Perry, MO 63462
573-565-2203
www.marktwaincog.com

Cindy

From: Cindy <hultzcog@rallstech.com>
Sent: Wednesday, October 9, 2019 5:38 PM
To: 'Susie Oberdahlhoff'
Subject: Pike County Multi-Jurisdictional Hazard Mitigation Plan Addendum Meeting
Attachments: Meeting Agenda.doc

Hello Susie-

Please post the attached agenda in a prominent location at the Courthouse for the Pike County Multi-Jurisdictional Hazard Mitigation Plan Addendum Meeting scheduled for October 14, 2019 at 1:00 p.m.

Thanks,

Cindy Hultz
Executive Director

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Pike County
Multi-Jurisdictional Hazard Mitigation Plan
Addendum Meeting for Bowling Green R-1 School
Bowling Green R-1, 700 West Adams, Bowling Green, MO
October 14, 2019
1:00 p.m.

Agenda

Welcome/Introductions Cindy Hultz, Executive Director
Mark Twain Regional Council of Governments

Hazard Mitigation Planning Purpose

Grant Programs Linked to Approved Plan

Planning Tasks / Multi-jurisdictional Approach

Public Involvement

Data Collection Questionnaires

Discussion of Hazards

Update Mitigation Goals

Discuss Mitigation Action Updates

Plan Adoption

Eligible Activities

Eligible Activities	HMGP	PDM	FMA
1. Mitigation Projects			
Property Acquisition and Structure Demolition	X	X	X
Property Acquisition and Structure Relocation	X	X	X
Structure Elevation	X	X	X
Mitigation Reconstruction	X	X	X
Dry Floodproofing of Historic Residential Structures	X	X	X
Dry Floodproofing of Non-residential Structures	X	X	X
Generators	X	X	X
Localized Flood Reduction Projects	X	X	
Non-localized Flood Risk Reduction Projects	X	X	X
Structural Retrofitting of Existing Buildings	X	X	
Non-structural Retrofitting of Existing Buildings and Facilities	X	X	X
Safe Room Construction	X	X	X
Wind Retrofit for One- and Two-Family Residences	X	X	
Infrastructure Retrofit	X	X	
Soil Stabilization	X	X	X
Wildfire Mitigation	X	X	X
Post-Disaster Code Enforcement	X	X	
Advance Assistance	X		
5 Percent Initiative Projects	X		
Miscellaneous/Other ⁽¹⁾	X		
2. Hazard Mitigation Planning	X	X	X
Planning Related Activities	X	X	X
3. Technical Assistance	X		
4. Management Costs			X
	X	X	X

Commission in session pursuant to adjournment at the Courthouse in Bowling Green, County of Pike, State of Missouri;
Chris Gamm, Presiding Commissioner, present
Justin Sheppard, Associate Commissioner, Eastern District, present
Bill Allen, Associate Commissioner, Western District, present

Chris Gamm moved to open the meeting at 9 AM, Justin Sheppard seconded the motion, Bill Allen, yes, motion carried.

Bills were reviewed and paid. Correspondence read and reviewed.

Unfinished/Old Business:

New Business:

Laura Stumbaugh, Deputy Clerk presented the proposed county property tax rate. It was reviewed and Justin Sheppard moved to set the General Revenue Property Tax rate at .2970%. Road and Bridge tax at .3240%. Bill Allen seconded the motion, motion carried.

Don Nacke, Bowling Green City Police Chief discussed the outdoor warning system tower placement at the county jail/911 office area. Commission agreed for tower to be placed at the electric service entrance. Don will further discuss location with the 911 director and sheriff.

Patty Fisher, University Extension reviewed "to do" list to be completed at the Annex.

Cindy Hultz, Mark Twain Regional Council of Government reported on the following project:
Hazard Mitigation Plan: Bill Allen moved to up-grade the Pike County Plan to include Bowling Green R-I Schools safe room and City of Clarksville to include flood wall. Motion was seconded by Justin Sheppard, motion carried.

Al Murry, representing the 911 board, presented a property agreement and lease for communications equipment building and tower for commission to review. Agreement was reviewed and approved by Alex Ellison, Pike County Prosecuting Attorney. Justin Sheppard moved to accept the agreement, seconded by Bill Allen, motion carried.

Al Murry, Emergency Management Director presented a change to County Ordinance 60.3D. Change 2 ft. BFE to 3 ft. BFE. in permits to rebuild in flood plain areas. Justin Sheppard moved to accept the ordinance change, seconded by Chris Gamm, motion carried.

Plans were discussed for the Fall NE Missouri County Commissioner's Conference.

Bryan Nichols, U. S. Rep. Sam Graves office visited with the commission about happenings from his office.

Meeting adjourned at 12:00PM.

There being no other business before the County Commission at this time, the meeting thereupon was adjourned until, September 9, 2019 at 9:00 a.m.

**Multi-Jurisdictional
Hazard Mitigation Plan**

**Data Collection Questionnaire
For School Districts and Educational Institutions**

County: Pike

School District / Educational Institution Name: Bowling Green R-I School District

Return by: _____

Please complete this data collection questionnaire as accurately and completely as possible as this information will appear in the mitigation plan. A data collection questionnaire must be completed for each "jurisdiction" that wishes to be included in the plan. According to FEMA's definition a jurisdiction is any local government, including counties, municipalities, cities, towns, school districts, special districts, councils of government, and tribal organizations. Any of these entities as well as publicly funded colleges and universities that do not participate in the planning process **will not** be eligible applicants for FEMA mitigation funding programs.

Prepared by: Matthew Frederickson/Stephen Hunter
Phone: 573-324-5441
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Date: 9/24/2019

Please return questionnaires by mail,
email, or fax to:

CAPABILITY ASSESSMENT & INCORPORATION OF EXISTING PLANS, STUDIES, REPORTS AND TECHNICAL INFORMATION

The purpose of this section is to collect information to document existing capabilities as well as determine existing plans, studies, reports, and technical information that may need to be incorporated in the mitigation plan.

Please indicate which of the following your school district / institution has in place. For elements that do not pertain to you, please indicate with "N/A". If applicable, please provide a completion date for the element. If your school district / institution has any of the **underlined and bolded** elements, please provide a copy of the document to the contact indicated on the front of this questionnaire and indicate method in the comments column (i.e. available on the web, will email or mail).

Planning Elements	Yes/No	Date of Latest Version	Comments
Master Plan	Yes	2018	
Capital Improvement Plan	Yes	8/2019	We update and work on this on a regular basis
<u>School Emergency Plan</u> Shelter in place protocols Evacuation protocols	Yes	8/2019	The district work closely
Weapons Policy	Yes	8/2019	

Administrative/Technical

Identify the technical and personnel resources responsible for activities related to hazard mitigation/loss prevention within your school district / institution.

Personnel Resources	Yes/No	Department/Position	Comments
Full-time building official (i.e. Principal)	Yes	Principals	
Emergency Manager	Yes	Superintendent, Assistant Superintendent and Principals	The district added an Assistant Superintendent position in 2019 with a focus on school and facility safety in their job duties.
Grant Writer	Yes	Superintendent, Assistant Superintendent and Principals	
Public Information Officer	Yes	Superintendent, Assistant Superintendent and Principals	

Financial Resources

Identify whether your school district /institution has access to or is eligible to use the following financial resources for hazard mitigation.

Financial Resources	Accessible/Eligible to Use (Y/N)	Comments
Capital improvements project funding	Yes	

Local funds	Yes	
General obligation bonds	No	Bonds are legally obligated to 2019 improvements
Special tax bonds	Yes	With voter approval
Private activities/donations	Yes	
State and federal funds	Yes	

Additional Capabilities Questions

1. Are your buildings equipped with a public address system or other emergency alert system? Please describe.

Each building has a PA system that is controlled through the phone systems. The speakers are in hall ways, common areas, classrooms, and shops.

2. Do your school's buildings have NOAA Weather Radios?

Yes.

3. List any past or ongoing projects or programs designed to reduce disaster losses. These may include projects to protect facilities or provide education regarding potential hazards.

Security film added to district entryway windows, vestibules currently under construction

4. List any other past or ongoing projects or programs designed to reduce disaster losses. These may include projects to protect critical facilities.

5. Do any of your buildings have designated tornado shelters or "saferooms"? If so, are they constructed in accordance with FEMA standards?

District Buildings do not have FEMA standards shelters at this time.

6. Did your school district / institution make any additions to buildings or construct new buildings since the last plan update (2010)? Please list the buildings and the improvement.

The district passed a bond issue for building improvements at the Bowling Green Campus and Frankford elementary in April, 2019

7. Does your school district / institution plan to remodel or construct any buildings in the next 5 years? If so, please list the building or proposed building and planned improvements. Are any planned construction activities in known hazard areas?

There are some cosmetic and updating improvements in process. No new buildings are planned to be constructed. Existing buildings are receiving new classrooms doors, new windows exterior windows in the 1966 constructed high school, tuck pointing, secure vestibules and epoxy flooring in some areas.

8. What percentage is your projected enrollment expected to increase or decrease in the next five years?

3-6% growth in student enrollment is estimated over the next five years.

9. Do you have your own campus police? Please explain your police department or who you rely on for security needs.

The Bowling Green R-I School District employs a full time School Resource Officer at district expense.

Asset Inventory

The purpose of this worksheet is to assist in the assessment of the vulnerable populations and facilities owned by your school district / institution. Use the table below to compile a detailed inventory of specific assets at risk. In the hazard specific column of the asset inventory table, indicate (by assigned abbreviation) which of the following hazards the asset is vulnerable to:

Riverine Flooding (Major & Flash)- RF	Severe Winter Weather (incl. snow, ice, severe cold)- SWW	Hazardous Materials Release (fixed facility, accidents)- HM
Dam Failure- DF	Droughts- D	Mass Transportation Accident- MTA
Levee Failure- LF	Extreme Temperatures- ET	Nuclear Power Plants (emergencies & accidents)- NPP
Earthquake- EQ	Fires (structural, urban, and wild)- F	Public Health Emergencies/Environmental Issues- PH
Land Subsidence / Sinkholes- LSS	Attack (nuclear, conventional, chemical, and biological)- A	Special Events- SE
Severe Thunderstorm (incl. winds, hail, lightning)- ST	Civil Disorder- CD	Terrorism- TX
Tornadoes- T	Cyber Disruption- CyD	Utilities (interruptions & system failures)- U

Please list buildings owned by your school district / institution including the square feet, values, and occupancy/capacity. If not applicable or not available, enter "N/A". Add as many rows as needed. **If you have this data in GIS formats, or other formats, please provide in lieu of this.**

Name of Asset	Address	Square Feet	Replacement Value (Insured)	Contents Value	Occupancy #	Hazards
Frankford Elementary School	500 School Street, Frankford, MO 63441	15,759	2,679,375	377,770	150	EQ, LSS, ST, T, SWW, D, F, CyD, U
Bowling Green Central Office/Annex Building	700 West Adams, Bowling Green, MO 63334	2,450	721,588	259,253	50	EQ, LSS, ST, T, SWW, D, F, CyD, U
Bowling Green High School	700 West Adams, Bowling Green, MO 63334	76,678	13,378,427	1,625,160	1,100	EQ, LSS, ST, T, SWW, D, F, CyD, U
Bowling Green Middle School	700 West Adams, Bowling Green, MO 63334	52,732	8,586,164	259,253	1,000	EQ, LSS, ST, T, SWW, D, F, CyD, U
Bowling Green Elementary School	700 West Adams, Bowling Green, MO 63334	36,887	6,133,953	979,246	300	EQ, LSS, ST, T, SWW, D, F, CyD, U
Bowling Green Primary	700 West Adams, Bowling Green, MO 63334	29,256	4,610,655	1,259,239	300	EQ, LSS, ST, T, SWW, D, F, CyD, U
Vocational Agriculture Annex	700 West Adams, Bowling Green, MO 63334	7,576	859,668	165,923	110	EQ, LSS, ST, T, SWW, D, F, CyD, U
Vocational Agriculture Greenhouse	700 West Adams, Bowling Green, MO 63334	2,160	163,399	14,813	20	EQ, LSS, ST, T, SWW, D, F, CyD, U
District School Bus Garage	700 Highway 61, Bowling Green, Mo 63334	3,200	219,211	62,220	30	EQ, LSS, ST, T, SWW, D, F, CyD, U
School bus maintenance garage	100 North Taylor Street, Bowling Green, MO 63334	1,600	26,830	47,406	10	EQ, LSS, ST, T, SWW, D, F, CyD, U
PAT Program Building	520 West Adams, Bowling Green, MO	1,647	176,723	41,474	35	EQ, LSS, ST, T, SWW, D, F, CyD, U
Athletic Buildings	700 West Adams, Bowling Green, MO 63334	4,247	521,678	8,886	80	EQ, LSS, ST, T, SWW, D, F, CyD, U

Multi-jurisdictional Mitigation Plan HISTORIC HAZARD EVENTS

Please fill out one sheet for each significant hazard event that affected **your school district / institution** with as much detail as possible. This includes all hazard events listed on the Vulnerability Assessment page that have caused previous damage. Attach supporting documentation, photocopies of newspaper articles, or other original sources.

Type of event	Fire
Nature and magnitude of event	Complete loss of the Frankford Elementary School
Location	Frankford Elementary, 500 School Street, Frankford, MO, 63441
Date of event	1966?
Injuries	0
Deaths	0
Property damage	1,000,000 Est.
Infrastructure damage	0
Crop damage	0
Business/economic impacts	
Road/school/other closures	
Other damage	
Insured losses	Unknown
Federal/state disaster relief funding	
Opinion on likelihood of occurring again	No good way to determine
Source of information	
Comments	

Multi-jurisdictional Mitigation Plan HISTORIC HAZARD EVENTS

Please fill out one sheet for each significant hazard event that affected **your school district /institution** with as much detail as possible. This includes all hazard events listed on the Vulnerability Assessment page that have caused previous damage. Attach supporting documentation, photocopies of newspaper articles, or other original sources.

Type of event	
Nature and magnitude of event	
Location	
Date of event	
Injuries	
Deaths	
Property damage	
Infrastructure damage	
Crop damage	
Business/economic impacts	
Road/school/other closures	
Other damage	
Insured losses	
Federal/state disaster relief funding	
Opinion on likelihood of occurring again	
Source of information	
Comments	