

# **APPENDIX B**

## **Planning Process**

Macon County  
Multi-Jurisdictional Hazard Mitigation Plan Update  
Kickoff Planning Meeting  
August 5, 2019  
12:00 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

Participation Requirements

Public Involvement

Data Collection Questionnaires

Discussion of Hazards

Critical Facilities

Next Steps in the Planning Process

**SAVE THE DATE:**

**Meeting #2—TBD**

**Meeting #3—TBD**

**To**           **Macon County Hazard Mitigation Planning Committee**  
**From**       **Cindy Hultz, Executive Director**  
                  **Mark Twain Regional Council of Governments**  
**Tel / E-mail** **573-565-2203, hultzcog@rallstech.com**  
**Date**        **August 6, 2019**  
**Subject**     **Minutes from Macon County Hazard Mitigation Planning Kickoff Meeting**  
                  **held on August 5, 2019**

This document is a record of attendance and a summary of the issues discussed during the above meeting. The presentation began with an introduction on the purpose of hazard mitigation planning, grant programs linked to an approved plan, and the benefits of a multi-jurisdictional approach. The hazard mitigation planning process was reviewed to include requirements for participation and public involvement and the use of data collection questionnaires. The planning committee participated in a discussion of the hazards that have the potential to impact Macon County, including preliminary research on each hazard. The sources for compiling a GIS layer of critical facilities were also discussed and additional sources identified by planning committee members were noted. The meeting concluded with a discussion of the next steps in the planning process. The meeting was held at the Macon County Fairgrounds at 1305 S. Missouri Street, Macon, MO 63552 from 12:00 p.m. to 1:00 p.m.

## Attendees

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<b>Name</b>	<b>Title</b>	<b>Jurisdiction</b>
Bruce Spencer	Alderman	City of Elmer
Julie Spencer	Alderman	City of Elmer
Marsa James	Alderman	City of Elmer
Avis Marshall	City Administrator	City of Macon
Kevin Myers	Code Enforcement	City of Macon
Adam Dowdy	Chief of Police	City of Macon
Ross Dutton	Macon Fire Dept.	City of Macon
Trinette Peukert	City Clerk	City of Bevier
Aimee Miller	City Clerk	City of Callao
Alan Wyatt	Presiding Commissioner	Macon County
Krista Bruno	Treasurer	Macon County
Shari Dye	Macon EMD	Macon County
Bobbie Jacques	City Clerk	City of La Plata
Kevin Souther	Commissioner	Macon County
Clarence Walker	Commissioner	Macon County
Devyn Campbell	Fiscal Officer	Mark Twain COG
Cindy Hultz	Executive Director	Mark Twain COG

## Introductions

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Cindy Hultz, Executive Director, with Mark Twain Regional Council of Governments, began the meeting by welcoming and thanking the attendees for coming and having all attendees introduce themselves and the jurisdiction or entity they were representing.

## Hazard Mitigation Planning Purpose

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Cindy Hultz, Executive Director, with Mark Twain Regional Council of Governments presented information on the purpose of Hazard Mitigation Planning and the Disaster Mitigation Act of 2000. The attendees were reminded this is an update of the Macon County Hazard Mitigation Plan, previously approved in May 2015. The current plan expires in May 2020.

## Grant Programs Linked to Approved Plan

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Cindy Hultz briefly discussed the FEMA Hazard Mitigation Assistance grants that require participation in an approved Hazard Mitigation Plan for jurisdictions to be eligible to apply. These include: Hazard Mitigation Grant Program, Pre-Disaster Mitigation Program, and Flood Mitigation Assistance Program

## Planning Tasks / Multi-Jurisdictional Approach

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Cindy Hultz discussed the 9 Planning Steps for effective Hazard Mitigation Planning identified in FEMA's March 2013 *Handbook for Local Hazard Mitigation Planning* and addressed the benefits for jurisdictions participating in this mitigation plan update including improved coordination and communication among local jurisdictions. Impacts of hazards do not stop at jurisdictional boundaries. This multi-jurisdictional approach allows for a more comprehensive risk assessment and resulting mitigation strategy for the entire planning area. The following jurisdictions have been invited to participate as "official participants" in the Macon County Multi-jurisdictional Hazard Mitigation Plan Update:

- Macon County
- Macon
- Callao
- Elmer
- Ethel
- La Plata
- New Cambria
- South Gifford
- Bevier
- Macon R-I School
- Macon R-IV School
- Atlanta C-3 School
- La Plata R-2 School
- Bevier C-4 School
- Callao C-8 School College

## Participation Requirements

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Cindy Hultz also described the role of the HMPC. Each jurisdiction participating in development of the plan must meet the following minimum requirements:

1. Designate a representative to serve on the Macon County HMPC, which will meet **three** times during the planning process,
2. Provide data for and assist in the development of the updated risk assessment that describes how various hazards impact your jurisdiction,
3. Provide data to describe current capabilities,
4. Develop/update mitigation actions (at least one) specific to your jurisdiction,
5. Provide comments on plan drafts as requested,
6. Inform the public, local officials, and other interested parties about the planning process and provide opportunities for them to comment on the plan, and
7. Formally adopt the mitigation plan.

Jurisdictions that choose not to participate in development of a FEMA-approved mitigation plan **will not** be eligible applicants for FEMA Hazard Mitigation Assistance Grants.

## **Planning for Public Involvement**

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The local hazard mitigation plan requirements state that the public needs to have the opportunity to comment on the plan. The public will be given two opportunities to comment on the plan, once during the drafting stage and another when the plan is complete in the final draft stage.

The meeting attendees discussed methods for notifying the public in the plan. The attendees decided to submit a press release to the local newspaper and place a public notice in all participating jurisdictions offices.

## **Data Collection Questionnaires**

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Representatives from local governments and school districts were provided with hard copies of Data Collection Questionnaires. The Data Collection Questionnaire is designed to collect information on existing capabilities within each jurisdiction to implement mitigation initiatives as well as collect information on previous hazard events. The questionnaires are different for local units of government and schools. The Data Collection Questionnaires were reviewed as a group and then meeting participants were given time to review the forms individually and note any questions about the forms.

**The deadline for submittal of the Data Collection Guides is August 23, 2019**

## **Discussion/Prioritization of Hazards**

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Initial research information was presented on the hazards being considered for inclusion in the hazard mitigation plan. The attendees agreed to continue with all of the previous natural hazards covered in the previous plan.

## **Critical Facilities**

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The Risk Assessment will include information on critical facilities for each jurisdiction. A GIS-based inventory of the critical facilities will be developed from a list the Mark Twain Regional Council of Governments currently has and meeting participants were asked to identify additional sources of GIS data for the critical facility inventory.

## **Next Steps**

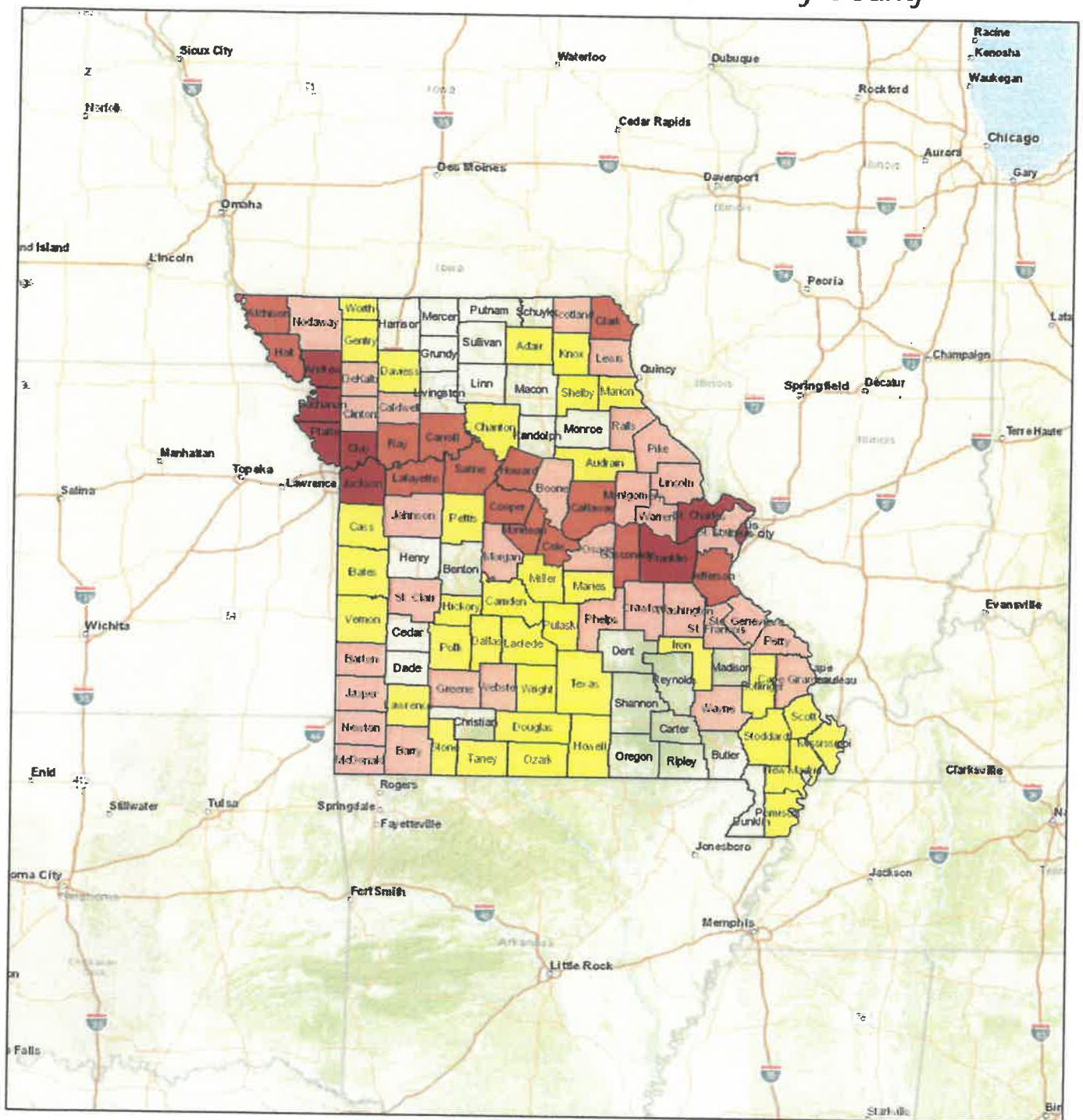
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Attendees were asked to complete their jurisdiction's Data Collection Questionnaire by August 23, 2019. **The 2nd meeting of the Hazard Mitigation Planning Committee for this plan update will be September 5, 2019.** A draft of the risk assessment update will be provided to the committee for review prior to Meeting #2. The meeting will involve a review of the risk assessment results and update of the plan's goals. **The 3<sup>rd</sup> and final planning meeting is scheduled for October 7, 2019.** Additional details on this meeting will be provided at a later date.

## Eligible Activities

Eligible Activities	HMGP	PDM	FMA
<b>1. Mitigation Projects</b>	X	X	X
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	
Localized Flood Reduction Projects	X	X	X
Non-localized Flood Risk Reduction Projects	X	X	
Structural Retrofitting of Existing Buildings	X	X	X
Non-structural Retrofitting of Existing Buildings and Facilities	X	X	X
Safe Room Construction	X	X	
Wind Retrofit for One- and Two-Family Residences	X	X	
Infrastructure Retrofit	X	X	X
Soil Stabilization	X	X	X
Wildfire Mitigation	X	X	
Post-Disaster Code Enforcement	X		
Advance Assistance	X		
5 Percent Initiative Projects	X		
Miscellaneous/Other <sup>(2)</sup>	X	X	X
<b>2. Hazard Mitigation Planning</b>	X	X	X
Planning Related Activities	X		
<b>3. Technical Assistance</b>			X
<b>4. Management Costs</b>	X	X	X

# Flood-Related Presidential Declarations by County

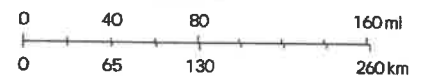


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Number of Flood-Related Presidential Disaster Declarations

- 1 - 2
- 3
- 4 - 5
- 6 - 7
- 8 - 9
- County Boundary

1:4,622,324



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

# Levees of Macon County

Levee Systems 0 Miles of Levees 0 Levee Structures

BROWSE THESE LEVEES

## Geography

Search for a location, place, or feature (State, County, City, etc.)

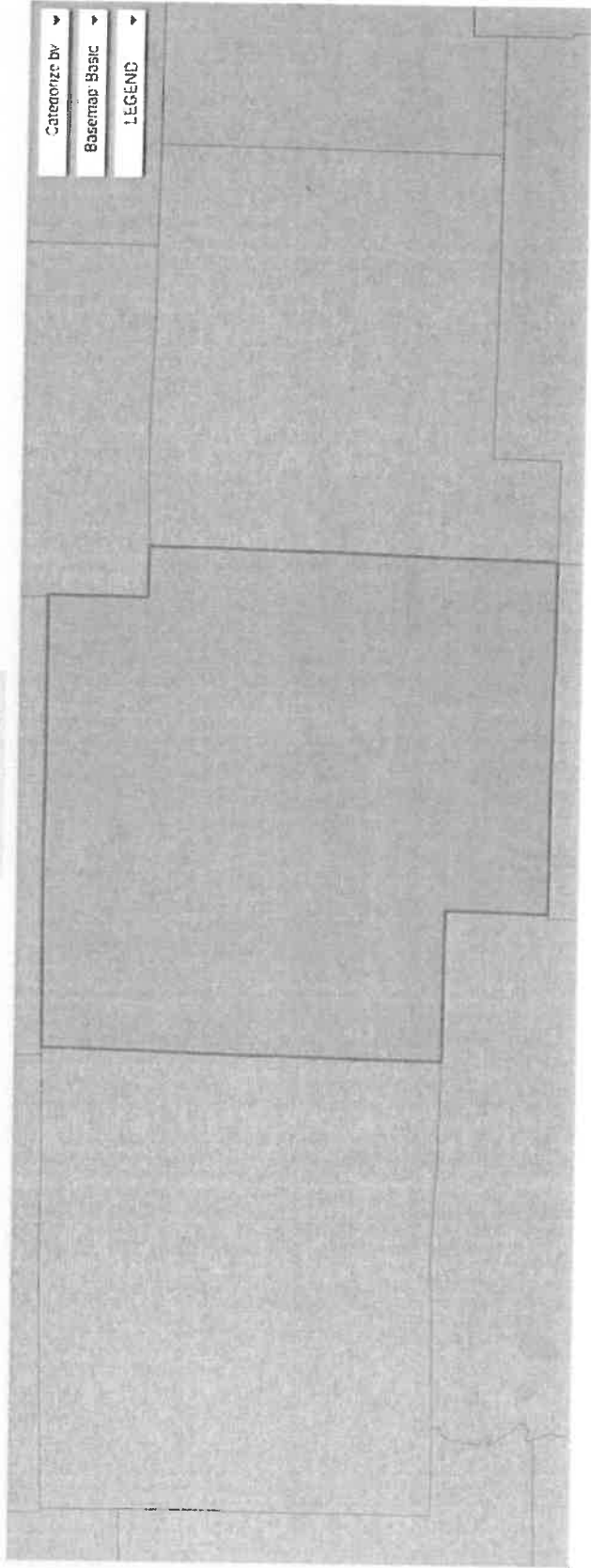
### Macon County

Back to Top of Page > Missouri

#### States and Counties

- Lewis County
- Linton County
- Linn County
- Livingston County
- Macon County
- Madison County
- Marion County
- Marshall County
- McDonald County
- Meriwether County
- Milner County
- Mississippi County
- Monroe County

Categorize by  
Basemap: Basic  
LEGEND



Explore



**DAMS IN MISSOURI AS OF 7/20/2017 - MISSOURI DEPARTMENT OF NATURAL RESOURCES**

Although this data set has been compiled by the Missouri Department of Natural Resources, no warranty, expressed or implied, is made by the Department as to the accuracy of the data. The act of distribution shall not constitute any such warranty, and no responsibility is assumed by the Department in the use of these data or related materials.

COUNTY	LOCATION	ID_NO	NAME	YEAR COMPLETE	LENGTH	DAMHGT	RESAREA	DRAINAGE AREA (acres)	STATE REGULATED	HAZARD CLASS	PERMIT NUMBER
MACON	S36, T59 N, R17W	MO10055	ETHEL LAKE DAM	1950	1100	53	17	147	Y		R-261
MACON	S36, T59 N, R17W	MO40141	ED'S LAKE A DAM	2005	618	42.6	31	230	Y		S-122
MACON	S05, T60 N, R14W	MO10114	SANTA FE LAKE DAM	1900	0	30	40	235	N		
MACON	S17, T57 N, R14W	MO10153	MACON LAKE DAM	1927	1200	42	205	4048	Y		
MACON	S32, T57 N, R16W	MO10327	TEMPLE STEPHENS CO DAM	1928	0	34	10	21	N		R-085
MACON	S33, T57 N, R15W	MO10329	KEOTA LAKE DAM	1900	0	15	12	525	N		
MACON	S29, T59 N, R14W	MO10330	CITY OF ATLANTA RESERVOIR DAM	1967	0	31	22	225	N		
MACON	S14, T57 N, R15W	MO10332	CENTRAL COAL&COKE CORP LAKE DAM	1897	0	15	10	156	N		
MACON	S28, T57 N, R14W	MO10333	STILL HILDRETH SANITORIUM DAM	1900	0	30	10	48	N		
MACON	S18, T57 N, R13W	MO10335	MONONAME 22 DAM	1968	0	20	4	35	N		
MACON	S06, T58 N, R14W	MO10338	CLAUDE BLOOMBERG DAM (INUNDATED)	1930	0	0	0	380	N		
MACON	S09, T60 N, R14W	MO10339	LA PLATA LAKE DAM	1958	0	30	22	390	N		
MACON	S07, T59 N, R14W	MO10340	GEORGE BAAKE DAM	1972	0	20	7	270	N		
MACON	S16, T57 N, R14W	MO10341	B THIEMAN	1930	0	20	3	55	N		
MACON	S05, T59 N, R14W	MO10374	LOVE LAKE DAM	1905	0	25	20	223	N		
MACON	S05, T57 N, R17W	MO10375	WHITE LAKE DAM	1940	0	30	10	55	N		
MACON	S07, T57 N, R16W	MO10387	NEW CAMBRIA LAKE DAM	1936	0	21	7	115	N		
MACON	S18, T57 N, R14W	MO11176	LONG BRANCH DAM(FEDERAL)	1979	0	71	6100	0	N		
MACON	S34, T58 N, R15W	MO11482	MCVICKER LAKE DAM	1977	580	25	1	205	N		
MACON	S07, T57 N, R16W	MO11504	SHELLE LAKE DAM	1974	0	25	7	39	N		
MACON	S23, T58 N, R14W	MO11666	MECHLIN LAKE DAM	1975	0	31	7	30	N		
MACON	S08, T58 N, R14W	MO11667	LARSON LAKE DAM	1977	0	30	8	100	N		
MACON	S14, T60 N, R14W	MO12126	LA PLATA NEW CITY DAM	1980	1000	43	81	800	N		
MACON	S06, T58 N, R14W	MO12411	BLOMBERG FARM DAM	1998	628	42.5	19	70	Y		R-335
MACON	S18, T59N,R16W	MO50625	REINHART DAM	1994	403	25.5	2	19	Y		S-082
MACON	S32, T58N,R17W	MO50626	GALL DAM	1994	225	28.1	8	390	N		
MACON	S06, T58N,R13W	MO50627	ROAMER DAM	1994	250	25.9	3	51	N		
MACON	S22, T56 N, R15W	MO12386	BEE VEER MINE DAM	1950	1700	60	111	111	Y		R-463
MACON	S23, T58N,R16W	MO50551	LOVELAND DAM	1992	177	33	1	26	N		
MACON	S18, T60N,R15W	MO50552	LAIRD DAM	1992	280	31	1	58	N		
MACON	S13, T57N,R15W	MO50169	BUSWELL DAM	1995	428	27	5	192	N		
MACON	S29, T60N,R17W	MO50170	LEISURE DAM	1995	369	28	6	193	N		
MACON	S33, T59N,R17W	MO50171	ATHA DAM	1995	206	30	5.5	269	N		
MACON	S20, T58N,R14W	MO50685	WEST DAM	1996	193	25.2	4	110	N		
MACON	S01, T56N,R15W	MO50686	CERVA DAM	1995	310	25.7	11	179	N		
MACON	S29, T57N,R16W	MO50709	WITT DAM	1997	2250	27.9	5	50	N		
MACON	S25, T57N,R17W	MO50711	HALL DAM	1997	370	25.5	13	253	N		
MACON	S26, T59N,R17W	MO50712	ALLARD DAM	1997	398	34.6	6.6	269	N		
MACON	S34, T56N,R15W	MO50713	CLENIA DAM	1997	355	26.2	7	243	N		
MACON	S01, T58N,R17W	MO50785	HENRY DAM	1997	450	29.7	2	32	N		
MACON	S35, T58N,R17W	MO50788	HUTCHISON DAM	1998	233	27.2	8	230	N		
MACON	S15, T56N,R14W	MO50784	MORRIS DAM	1998	340	24.3	7	160	N		
MACON	S13, T56N,R13W	MO50781	HACKMAN DAM	1998	650	23.2	4	187	N		
MACON	S32, T57N,R15W	MO50782	GREENWOOD DAM	1998	475	24.4	5	150	N		
MACON	S06, T57N,R13W	MO50783	TETER DAM	1998	440	28.8	5	160	N		
MACON	S30, T56N,R13W	MO50786	WHITE DAM	1998	477	25	9	150	N		
MACON	S19, T57N,R15W	MO50967	PHILLIP PAGLAI DAM	2000	290	26	4	160	N		
MACON	S02, T58N,R17W	MO50968	PAUL ISAACSON DAM	2000	310	29	10	95	N		
MACON	S01, T56N,R15W	MO50981	HOFCO FARMS DAM	1999	320	29	4	77	N		
MACON	S11, T57N,R14W	MO51100	JEFF EMANUAL DAM	2001	300	25	2	32	N		
MACON		MO51114	FOSTER DAM	2002	240	28	4	128	N		

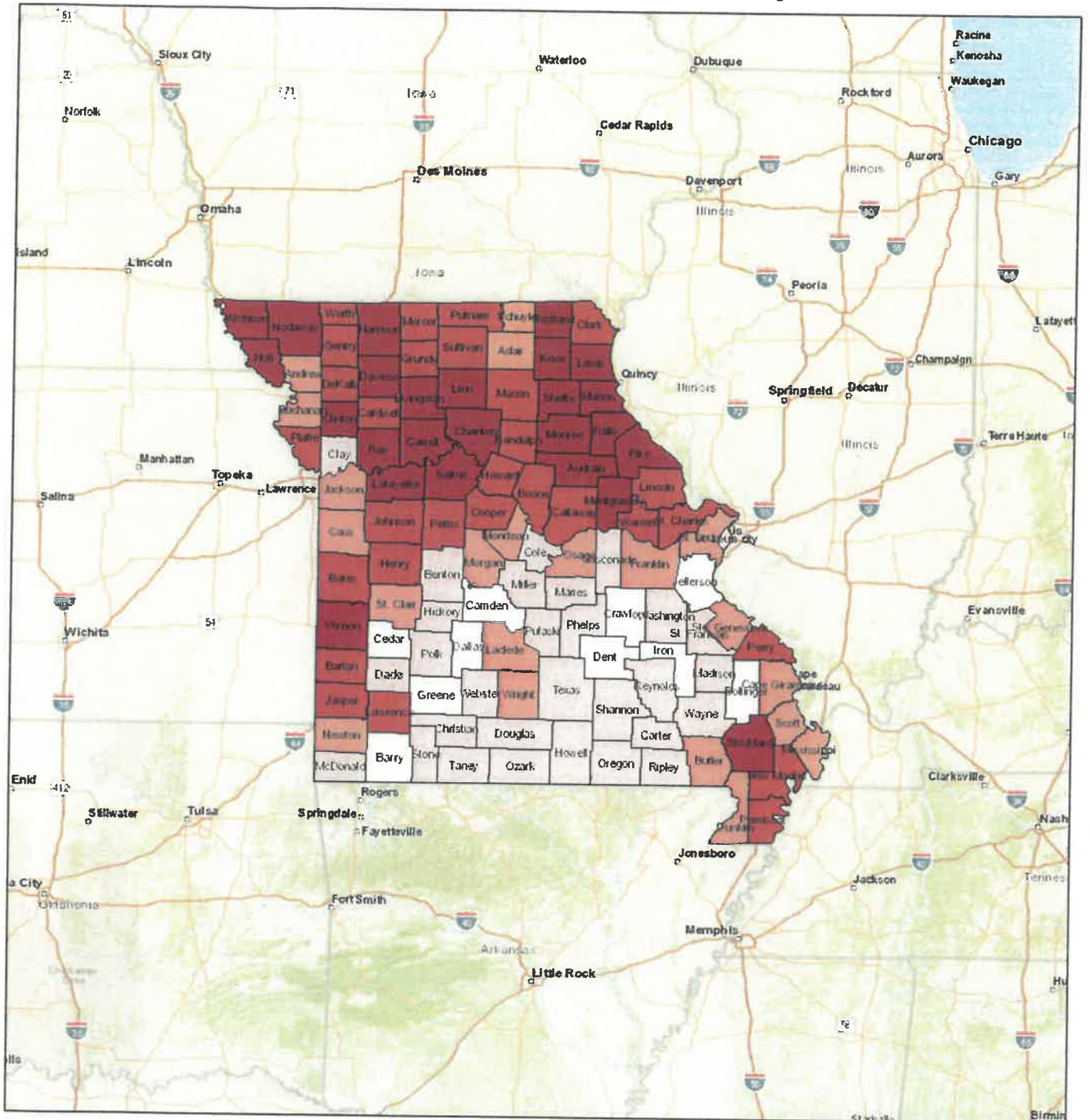
MACON	S03,T59N,R15W	MO51172	HIATT DAM	2003	450	26	2	64	N	3
MACON	S15,T58N,R15W	MO51173	WATSON DAM	2003	503	29	12	230	N	3
MACON	S33,T58N,R15W	MO51192	RICK MCVICKER DAM	1989	620	27	3	115	N	3
MACON	S31,T60N,R15W	MO51261	FOUNTAIN CREEK FARMS DAM	2004	389	28	6	262	N	3
MACON	S1,T58 N, R17W	MO40169	ED'S LAKE B DAM	0000	450	47.5	6	53	Y	2
MACON	S17,T58N,R13W	MO51408	HOCHSTETLER DAM	2005	215	28	2	77	N	3
MACON	S28,T60N,R13W	MO51409	WATTS DAM	2006	912	21	9	173	N	3
MACON	S30,T59N,R14W	MO51503	JWEST DAM	2007	260	27	2	130	N	3



# Sinkholes in Missouri



# Drought Vulnerability by County

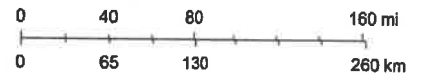


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Vulnerability Rating - Drought

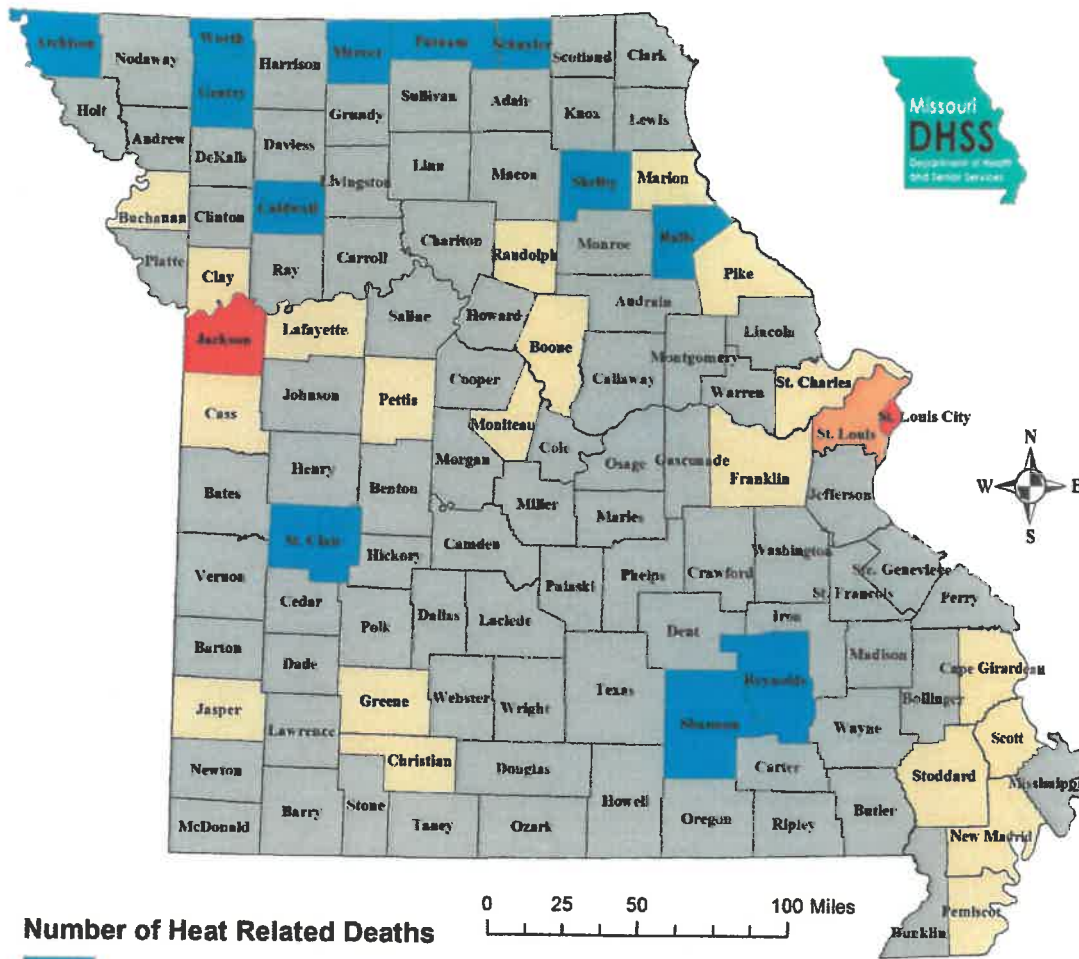
- High
- Medium-High
- Medium
- Medium-Low
- Low
- County Boundary

1:4,622,324



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

## Number of Heat Related Deaths in Missouri by County\*\* for 1980 - 2016^



\*\* County of death may differ from county of residence

^ Data for 2016 is preliminary and subject to change

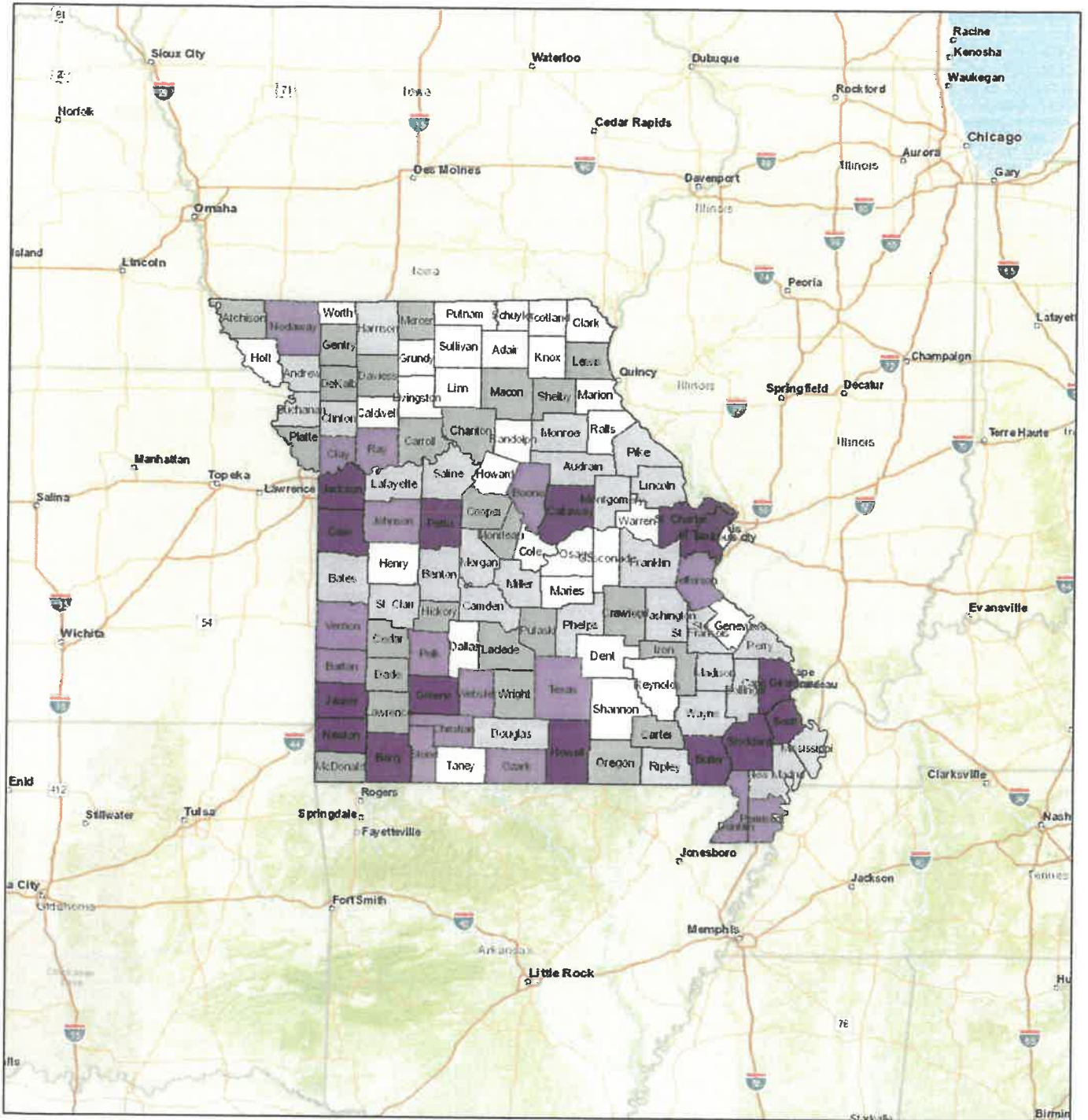
Total number of deaths from 1980 to 2016 was 1,272

Includes 18 non-Missouri residents who died in Missouri

Source: Bureau of Environmental Epidemiology

Date: 6/19/2017

# Historical Number of Tornadoes by County

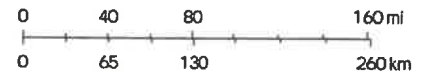


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Number of Tornadoes

- 8 - 14
- 15 - 21
- 22 - 28
- 29 - 37
- 38 - 53
- County Boundary

1:4,622,324



Sources: Esri, HERE, Garmin, USGS, Intermap, INCREMENT P, NRCan, Esri Japan, METI, Esri China (Hong Kong), Esri Korea, Esri (Thailand), NGCC, (c) OpenStreetMap contributors, and the GIS User Community

# Macon County Wildlife

View	Discovered Date	County	Station	Cause	Acres Burned
2017-08104-177224	07/12/2018	Macon	Macon Rural Fire Department	Equipment	6.05
2017-08104-177898	07/10/2018	Macon	Atlanta Volunteer Fire Department	Debris	1.6
2017-08104-178645	04/20/2018	Macon	Macon Rural Fire Department	Miscellaneous	24.71
2017-08104-178747	04/20/2018	Macon	Macon Rural Fire Department	Debris	12.17
2017-08104-178748	04/20/2018	Macon	Macon Rural Fire Department	Debris	4.45
2017-08104-177406	04/24/2018	Macon	Macon Rural Fire Department	Miscellaneous	2.88
2017-08104-178194	02/11/2018	Macon	Macon Rural Fire Department	Unknown	4.26
2017-08104-178191	02/11/2018	Macon	Macon Rural Fire Department	Unknown	0.4
2017-08104-178190	02/11/2018	Macon	Macon Rural Fire Department	Debris	1.7
2017-08104-178185	02/12/2018	Macon	Macon Rural Fire Department	Miscellaneous	7.6
2017-08104-178184	02/12/2018	Macon	Macon Rural Fire Department	Miscellaneous	9.05
2017-08104-178013	02/04/2018	Macon	Macon Rural Fire Department	Unknown	10.25
2017-08104-178035	02/04/2018	Macon	Macon Rural Fire Department	Unknown	1.2
2017-08104-177705	01/23/2018	Macon	Atlanta Volunteer Fire Department	Debris	1.2
2017-08104-168214	12/04/2017	Macon	Macon Rural Fire Department	Unknown	1
2017-08104-169852	12/13/2017	Macon	Macon Rural Fire Department	Miscellaneous	.6
2017-08104-169851	12/13/2017	Macon	Macon Rural Fire Department	Miscellaneous	1
2017-08104-169211	11/26/2017	Macon	Macon Rural Fire Department	Debris	1
2017-08104-169220	11/27/2017	Macon	Macon Rural Fire Department	Debris	1.6
2017-08104-168421	11/20/2017	Macon	Macon Rural Fire Department	Campfire	.26
2017-08104-168432	11/14/2017	Macon	Atlanta Volunteer Fire Department	Debris	1
2017-08104-168433	10/31/2017	Macon	Atlanta Volunteer Fire Department	Debris	1
2017-08104-169101	10/10/2017	Macon	Macon Rural Fire Department	Miscellaneous	3
2017-08104-169092	04/10/2017	Macon	Atlanta Volunteer Fire Department	Miscellaneous	20
2017-08104-167771	03/17/2017	Macon	Macon Rural Fire Department	Debris	14.6
2017-08104-168263	02/12/2017	Macon	Atlanta Volunteer Fire Department	Miscellaneous	4
2017-08104-168261	02/09/2017	Macon	Atlanta Volunteer Fire Department	Miscellaneous	1.6
2017-08104-168258	02/04/2017	Macon	Atlanta Volunteer Fire Department	Miscellaneous	2
2017-08104-168260	02/04/2017	Macon	Atlanta Volunteer Fire Department	Miscellaneous	6
2017-08104-168259	02/03/2017	Macon	Atlanta Volunteer Fire Department	Miscellaneous	50
2017-08104-168256	02/03/2017	Macon	Atlanta Volunteer Fire Department	Miscellaneous	20
2017-08104-166716	02/02/2017	Macon	Macon Rural Fire Department	Unknown	60
2017-08104-168254	02/02/2017	Macon	Atlanta Volunteer Fire Department	Miscellaneous	3
2017-08104-165282	02/02/2017	Macon	Calais Fire Protection District	Equipment	18
2017-08104-165281	02/22/2017	Macon	Calais Fire Protection District	Equipment	2
2017-08104-165280	02/18/2017	Macon	Macon Rural Fire Department	Unknown	2.6
2017-08104-166714	02/18/2017	Macon	Macon Rural Fire Department	Unknown	2
2017-08104-166713	02/17/2017	Macon	Macon Rural Fire Department	Debris	2
2017-08104-166712	02/17/2017	Macon	Macon Rural Fire Department	Unknown	2
2017-08104-166711	02/14/2017	Macon	Macon Rural Fire Department	Unknown	2
2017-08104-155280	02/13/2017	Macon	Calais Fire Protection District	Debris	5
2017-08104-155279	02/12/2017	Macon	Calais Fire Protection District	Unknown	5
2017-08104-158253	02/12/2017	Macon	Atlanta Volunteer Fire Department	Not Reported	5
2017-08104-158252	02/11/2017	Macon	Atlanta Volunteer Fire Department	Miscellaneous	6
2017-08104-164666	02/09/2017	Macon	Macon Rural Fire Department	Miscellaneous	2.6
2017-08104-164231	01/30/2017	Macon	Macon Rural Fire Department	Debris	1

# Multi-Jurisdictional Hazard Mitigation Plan

## Data Collection Questionnaire

### For School Districts and Educational Institutions

County: \_\_\_\_\_

School District /  
Educational Institution Name: \_\_\_\_\_

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: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Date: \_\_\_\_\_

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

Name: \_\_\_\_\_

Address: \_\_\_\_\_

Email: \_\_\_\_\_

Fax: \_\_\_\_\_



# 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			
Capital Improvement Plan			
<b><u>School Emergency Plan</u></b>			
Shelter in place protocols			
Evacuation protocols			
Weapons Policy			

## 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)			
Emergency Manager			
Grant Writer			
Public Information Officer			

## 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		
Local funds		
General obligation bonds		
Special tax bonds		
Private activities/donations		
State and federal funds		

## Additional Capabilities Questions

1. Are your buildings equipped with a public address (PA) system or other emergency alert system? Please describe.
2. Does your school buildings' have NOAA Weather Radios?
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 hazards that could occur.
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?
6. Did your school district / institution make any additions to buildings or construction new buildings since the last plan update (2010)? Please list the buildings and the improvement.
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?
8. What percentage is your projected enrollment expected to increase or decrease in 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.

# VULNERABILITY ASSESSMENT

## 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 natural hazard column of the asset inventory table, indicate (by assigned abbreviation) which of the following hazards the asset is vulnerable to:

Natural Hazards	
Flooding (Major & Flash) - RF	Drought - D
Levee Failure - LF	Extreme Temperature - ET
Dam Failure - DF	Severe Thunderstorm (incl. winds, hail, lightning) - ST
Earthquake - EQ	Severe Winter Weather (incl. snow, ice, severe cold) - SWWW
Land Subsidence / Sinkholes - LSS	Tornadoes - T
Drought - D	Wildfire - WF

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	Area (sq.ft.)	Replacement Value (Insured) (\$)	Contents Value (\$)	Occupancy/ Capacity (#)	Natural Hazards



## 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.

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

## HISTORIC HAZARD EVENTS (continued)

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.

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

# Multi-Jurisdictional Hazard Mitigation Plan

## Data Collection Questionnaire

### For Special Districts

County: \_\_\_\_\_

Special District Name: \_\_\_\_\_

Return by: August 23, 2019

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. Please note: School Districts and other Educational Institutions should complete the Data Collection Questionnaire indicated "For School Districts and Educational Institutions".

Prepared by: \_\_\_\_\_

Phone: \_\_\_\_\_

Email: \_\_\_\_\_

Date: \_\_\_\_\_

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

Name: Deryn Campbell

Address: 42494 Delaware Lane Perry, MO 63462

Email: campbellcog@ralls.tech.com

Fax: 573-565-2205

# 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. Although some of this information may have been captured in your previous mitigation plan, it is important to ensure this information is current in the plan update

Please indicate which of the following your jurisdiction has in place. For elements that do not pertain to your type of public entity, please indicate with "N/A". If applicable, please provide a completion date for the element. If your jurisdiction does not have a particular element, and a higher level of government has the authority pertaining to your jurisdiction, please indicate this in the comments column. If your jurisdiction has any of the **underlined and bolded** elements, please provide a copy of the document to the contact listed on the front and indicate method in the comments column (i.e. available on the web, will email or mail).

Element	Yes, No, N/A	Comments and/or Weblink
<b>Planning Capabilities</b>		
Capital Improvement Plan	Date:	
Emergency Operations Plan	Date:	
Continuity of Operations Plan	Date:	
Community Wildfire Protection Plan	Date:	
Other:		
<b>Policies</b>		
<b>Programs</b>		
Cross-Connection Program		
Hydrant Flushing Program		
Public Education/Awareness		
Tree Trimming Program		
Mutual Aid Agreements		
Other:		



Element	Yes, No, N/A	Comments and/or Weblink
Studies/Reports/Maps		
Evacuation Route Map		
Critical Facilities Inventory		
Staff/Department		Full Time or Part Time?
Financial Resources		Is your jurisdiction able to? Yes or No
Fund projects thru Capital Improvements funding		
Fees for water, sewer, gas, or electric services		
Incur debt through general obligation bonds		
Incur debt through special tax bonds		
Incur debt through private activities		
Withhold spending in hazard prone areas		

For plan updates, the plan maintenance process outlined in your previous plan requires all participating jurisdictions to incorporate the requirements of the mitigation plan into other planning mechanisms, when appropriate. A key element of effective implementation of mitigation is for the mitigation plan to be incorporated in existing authorities, policies, programs, and resources. Next to each applicable planning mechanism, indicate how your jurisdiction incorporated the previous mitigation plan. If no incorporation has occurred, please explain, including background information detailing any challenges preventing incorporation.

Planning Capabilities	Method of Incorporation Since Previous Plan or Challenges Preventing Incorporation
Capital Improvement Plan	
Emergency Operations Plan	
Continuity of Operations Plan	
Firewise or other Fire Mitigation Plan such as Community Wildfire Protection Plan	

## Additional Questions

1. How is your Special District structure organized? (Board of Directors, Commission, how many members)
2. List any past or ongoing public education or information programs, such as for responsible water use, fire safety, household preparedness, or environmental education.
3. List any other past or ongoing projects or programs designed to reduce disaster losses, these may include projects to protect critical facilities. Be sure to include pending or approved projects submitted for FEMA mitigation grants.
4. Please list Mitigation Planning Committee members who served during the development of the previously approved plan. Was the process set forth for monitoring the implementation of the previously approved mitigation plan adhered to? Did the Committee meet as was specified in the previously approved plan? Why or why not?

# VULNERABILITY ASSESSMENT

The purpose of this worksheet is to assess the vulnerable buildings, populations, critical facilities, infrastructure, and other important assets in your community by using the best available data to complete the table. Use the table on the next page to compile a detailed inventory of specific assets at risk including critical facilities and infrastructure; natural, cultural, and historical assets; and economic assets. In the natural hazard column of the asset inventory table, indicate (by assigned abbreviation) which of the following hazards the asset is vulnerable to:

Natural Hazards	
Flooding (Major & Flash) - <b>RF</b>	Drought - <b>D</b>
Levee Failure - <b>LF</b>	Extreme Temperature - <b>ET</b>
Dam Failure - <b>DF</b>	Severe Thunderstorm (incl. winds, hail, lightning) - <b>ST</b>
Earthquake - <b>EQ</b>	Severe Winter Weather (incl. snow, ice, severe cold) - <b>SWW</b>
Land Subsidence / Sinkholes - <b>LSS</b>	Tornadoes - <b>T</b>
Drought - <b>D</b>	Wildfire - <b>WF</b>

## Critical Facilities and Infrastructure

A critical facility may be defined as one that is essential in providing utility or direction either during the response to an emergency or during the recovery operation. FEMA's HAZUS-MH loss estimation software uses the following three categories of critical assets. 'Essential facilities' are those that if damaged would have devastating impacts on disaster response and/or recovery. 'High potential loss facilities' are those that would have a high loss or impact on the community. Transportation and lifeline facilities are third category of critical assets; examples are provided below.

### Essential Facilities

Fire station  
Emergency Operations  
Centers

### High Potential Loss Facilities

Power plants  
Dams/levees  
Hazardous material sites  
Main government buildings

### Transportation and Lifeline

Highways, bridges, and tunnels  
Railroads and facilities  
Bus facilities  
Airports  
Water treatment facilities  
Natural gas facilities and pipelines  
Oil facilities and pipelines  
Communications facilities





## HISTORIC HAZARD EVENTS

Please fill out the sheet on the next page for each significant hazard event that affected **Your Jurisdiction**. **Make as many copies as necessary to record all events** and complete with as much detail as possible. This includes all events associated with the hazards listed below that have caused previous damage in your jurisdiction. It is especially important to capture events that either were not included in the previous Hazard Mitigation Plan or occurred since the plan was completed. Attach supporting documentation, photocopies of newspaper articles, or other original sources.

<b>Jurisdiction</b>	
<b>Type of event</b>	
<b>Nature and magnitude of event</b>	
<b>Location</b>	
<b>Date of event</b>	
<b>Injuries</b>	
<b>Deaths</b>	
<b>Property damage</b>	
<b>Infrastructure damage</b>	
<b>Crop damage</b>	
<b>Business/economic impacts</b>	
<b>Road/school/other closures</b>	
<b>Other damage</b>	
<b>Insured losses</b>	
<b>Federal/state disaster relief funding</b>	
<b>Source of information</b>	
<b>Comments</b>	

## HISTORIC HAZARD EVENTS (continued)

Please fill out the sheet on the next page for each significant hazard event that affected **Your Jurisdiction**. **Make as many copies as necessary to record all events** and complete with as much detail as possible. This includes all events associated with the hazards listed below that have caused previous damage in your jurisdiction. It is especially important to capture events that either were not included in the previous Hazard Mitigation Plan or occurred since the plan was completed. Attach supporting documentation, photocopies of newspaper articles, or other original sources.

<b>Jurisdiction</b>	
<b>Type of event</b>	
<b>Nature and magnitude of event</b>	
<b>Location</b>	
<b>Date of event</b>	
<b>Injuries</b>	
<b>Deaths</b>	
<b>Property damage</b>	
<b>Infrastructure damage</b>	
<b>Crop damage</b>	
<b>Business/economic impacts</b>	
<b>Road/school/other closures</b>	
<b>Other damage</b>	
<b>Insured losses</b>	
<b>Federal/state disaster relief funding</b>	
<b>Source of information</b>	
<b>Comments</b>	



# ASSESSMENT OF PREVIOUSLY PROPOSED ACTIONS

**Jurisdiction:** \_\_\_\_\_

The contractor/plan development facilitator has provided a list of actions proposed in the previously approved plan for each jurisdiction. Use the worksheet below to evaluate whether each action is still current, feasible, desirable, and/or creates benefit that outweighs the cost.

The worksheet should include information on the status of the action and progress made in implementation, if any. This includes:

- For **completed actions** provide a description of the implementation process. This may be a success story you would like to publicize in your community.
- Some of the actions might have been **ongoing** in nature, such public information and education programs. When this is the case, indicate what activity has occurred during the previous five years, and indicate if this program is still viable enough that it should be carried on into the future.
- If **no progress** has been made in the implementation of a given action, discuss why. Note that implementation is not a requirement. However, if no progress has been made, perhaps this is an action that would be appropriate to delete in the updated plan.

During review of the previously approved actions, consider whether any new actions should be proposed. Perhaps damages from a recent hazard event have indicated the need for new approaches to protect property and life. Review the problem statements from the updated plan for ideas. Also review the FEMA publication *Mitigation Ideas: A Resource for Reducing Risk to Natural Hazards (January 2013)*.

#	Action	Status			Description of Implementation Activities or Reasons for Lack of Progress	Keep – ✓ Delete – X Modify – M
		Complete	Ongoing	No Progress		

#	Action	Status			Description of Implementation Activities or Reasons for Lack of Progress	Keep – ✓ Delete – X Modify – M
		Complete	Ongoing	No Progress		

Macon County HMP  
 Kick Off Meeting  
 August 5, 2019  
 12:00 PM

<u>Name</u>	<u>Organization</u>	<u>Email</u>
Bruce Spencer	Alderman City of Elmer	
Julie Spencer	Alderman City of Elmer	grannyof307marey@gmail.com
Marsha James	Alderman City of Elmer	
Avis Marshall	City Administrator	ADMINISTRATOR@CITYOFMACON-MA.GA
Kevin Myers	Code Enforcement Macon	codeenforcement@cityofmacon.ga
Adam Dawdy	Chief of Police Macon	adam.dawdy@cityofmacon-ma.ga
Ross Dutton	Macon FIRE DEPT	rdutton@maconfire.com
Trinette Teukert	City of Bevier	beviercity@cvalley.net
Aimee Miller	City of Callao	cityofcallao@cvalley.net
Alan Wyatt	Macon Co	
Krista Bruho	macon Co Treasurer	mct@cvalley.net
Shari Oye	macon EMP	director@maconoem.org
Bobbi Jacques	Laplata, Mo	laplatacityclub@callsonet.net
Kevin Sautter	District 1 <sup>#</sup> Commissioner	Ksautter2014@gmail.com <sup>net</sup>
Clara Walker	DISTRICT 2 COMMISSIONER	
Dan Campbell	MTRCOG	campbellcog@allstech.com
Cindy Hily	MTRCOG	

## **Devyn Campbell**

---

**From:** Cindy <hultzcog@rallstech.com>  
**Sent:** Thursday, July 18, 2019 10:15 PM  
**To:** Alan Wyatt; Kevin Souther ; Clarence Walker ; Krista Bruno; cityofatlanta; City of Bevier; City of Callao; Lois Bragg; Bobbie Jacques; Macon Admin; Bob Maddox; grannyof3ormore@yahoo.com  
**Cc:** 'Devyn Campbell'  
**Subject:** RE: Macon County Hazard Mitigation Plan Update

**My apologies I left off the date in the previous email!**

**Macon County Multi-jurisdictional Hazard Mitigation Plan Update  
Kickoff Meeting  
August 5, 2019**

**Meeting Time: 12:00 p.m. (lunch will be served)**

**Place: Macon County Fairgrounds- Floral Hall**

**Address: 1305 S. Missouri Street, Macon, Mo**

**Thanks,  
Cindy Hultz**

---

**From:** Cindy <hultzcog@rallstech.com>  
**Sent:** Thursday, July 18, 2019 4:42 PM  
**To:** Alan Wyatt (macon.presiding@gmail.com) <macon.presiding@gmail.com>; Kevin Souther <macon.district1@gmail.com>; Clarence Walker <macon.district2@gmail.com>; Krista Bruno <mct@cvalley.net>; cityofatlanta <cityofatlanta@cvalley.net>; City of Bevier <beviercity@cvalley.net>; City of Callao (cityofcallao@cvalley.net) <cityofcallao@cvalley.net>; Lois Bragg (lois0419@gmail.com) <lois0419@gmail.com>; Bobbie Jacques <laplatacityclerk@cableone.net>; Macon Admin <maconadmin@cvalley.net>; Bob Maddox <blmaddox@cvalley.net>  
**Cc:** 'Devyn Campbell' <campbellcog@rallstech.com>  
**Subject:** Macon County Hazard Mitigation Plan Update

**Subject: Macon County Multi-Jurisdictional Hazard Mitigation Plan Update**

On behalf of Macon County, you are invited to the first of three planning meetings to update the Macon County Multi-jurisdictional Hazard Mitigation Plan. The existing plan, approved by FEMA in 2015 was developed in accordance with the Disaster Mitigation Act of 2000. To maintain eligibility for certain FEMA Hazard Mitigation Assistance grants, the Act requires jurisdictions to develop a plan to assess their risks to hazards and identify actions that can be taken in advance to reduce future losses. The law requires Hazard Mitigation Plans to be updated every five years. Your participation is a key element to the success of the plan update effort.

**Macon County Multi-jurisdictional Hazard Mitigation Plan Update  
Kickoff Meeting**

**August**

**Meeting Time: 12:00 p.m. (lunch will be served)**

**Place: Macon County Fairgrounds- Floral Hall**

**Address: 1305 S. Missouri Street, Macon, Mo**

The hazard mitigation planning process is heavily dependent on the participation of representatives from local government agencies and departments, the public, and other stakeholder groups. A Hazard Mitigation Planning Committee will be formed to support this project and will include representatives from the County, cities, school districts, private-non-profit entities, business partners, academic institutions, and other local, state, and federal agencies acting in or serving Macon County.

At the kickoff meeting, we will discuss the benefits of updating the hazard mitigation plan, the project schedule, and all of the hazards that affect Macon County, such as tornadoes, floods, extreme temperatures, severe winter weather, and more. **Macon County requests your assistance in forwarding this invitation to others in your jurisdiction. Appropriate participants in the planning committee include, but are not limited to: emergency responders, county clerks, city clerks, elected officials, public works directors, floodplain managers, stormwater managers, county and city planners, economic development directors, GIS staff, business partners, private-non-profit representatives, school principals, school facilities directors, and school superintendents.**

The Mark Twain Regional Council of Governments has taken the lead in developing this plan. The point of contact is Cindy Hultz, Executive Director. To successfully complete this project and ensure your organization is eligible for FEMA hazard mitigation assistance funding, we need your participation and input. Jurisdictions (including county and city governments and public school districts) that do not participate in an approved Hazard Mitigation Plan are **NOT eligible** to apply for FEMA's Hazard Mitigation Assistance grants.

Please confirm your attendance or provide contact information for your designated alternate by responding to Cindy Hultz at 573-565-2203 or [hultzcog@rallstech.com](mailto:hultzcog@rallstech.com).

Cindy Hultz  
Executive Director

Mark Twain Regional Council of Governments  
42494 Delaware Lane  
Perry, MO 63462  
573-565-2203  
[www.marktwaincog.com](http://www.marktwaincog.com)



Virus-free. [www.avast.com](http://www.avast.com)

## Devyn Campbell

---

**From:** Devyn Campbell <campbellcog@rallstech.com>  
**Sent:** Wednesday, August 21, 2019 8:55 AM  
**To:** Alan Wyatt; 'macon.district1@gmail.com'; 'macon.district2@gmail.com'; 'mct@cvalley.net'; 'cityofatlanta'; 'Cvalley'; 'cityofcallao@cvalley.net'; 'lois bragg'; 'Bobbie Jacques'; 'Robert'; 'tpate@cvalley.net'; 'Macon City Administrator'; 'debjaco@yahoo.com'; 'grannyof3ormore@yahoo.com'; 'Sue Goulder'; 'mail@maconmohealth.org'; 'macon.rbsuper@gmail.com'; 'customerservice@maconutilities.com'; 'sjarvis@macon.k12.mo.us'; 'jdunham@mcr4.k12.mo.us'; 'dliebhart@mcr4.k12.mo.us'; 'phalstead@callao8.k12.mo.us'; 'wperkins@atlanta.k12.mo.us'; 'jbrummit@atlanta.k12.mo.us'; 'patrickj@bevier.k12.mo.us'; 'Jason Martie'; 'amorris@laplata.k12.mo.us'  
**Cc:** Cindy Hultz  
**Subject:** Macon County Hazard Mitigation Plan Update

Good morning-

As a reminder: the Data Collection Questionnaires for each jurisdiction are due to me by the end of the day on Friday, August 23. If you were not in attendance at the first meeting or if you would like an electronic copy, please contact me as there are separate forms for each jurisdiction. Please complete the Data Collection Questionnaires to the best of your ability, but do not spend too much time trying to dig up information. Only one form needs to be submitted for each jurisdiction.

Feel free to contact me if you have any questions- Thank you!

***Devyn Campbell***

**Mark Twain Regional Council of Governments  
Fiscal Officer/Community Planner**

42494 Delaware Lane  
Perry, MO 63462  
(573) 565-2203

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**SENIOR HOUSING** - Macon Senior Housing Inc. has 1-bedroom apartments available for rent to eligible tenants. Utilities paid. Laundry facilities. Refrigerator and range provided. Maintenance provided. Smoke free apartments. Karen Murr or Vicky McLeand 660-415-7287 for more information. This institution is an Equal Opportunity provider and employer. (TFN)

**SITUATION WANTED**  
 Do you have a loved one who needs help? Or perhaps you do? I have 10+ years experience providing a variety of in home care-taking tasks. References available. Call or text 573-355-3271

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 HUD Approved Teachers Welcome  
 www.brookviewapts.com  
 MO RELAY 711  
 \*Brookview is an equal opportunity provider and employer\*

**GARAGE SALES**  
 Our Semi-Annual inside sale Sept. 13th & 14th, 31981 State Rd DD, North of Macon. 20% off all marked prices on bedding & quilts, two building full. Something for everyone. Other sales in area. Respect our farmers, please don't block state road.

**Family Garage Sale part of neighborhood sale Sept 12-13, 27296 Kate Rd. Yard utility wagon, old lamp misc.**

Quartz predicted visibility in global financial markets... **Looking at beautiful things will benefit you**

**Improve yourself and help others**

**Try marketing your crafts and business on the Internet**

**HOUSE FOR SALE CALLAO, MO**  
  
 Set on for 71' x 306', 2 bedroom new windows, vinyl siding, good roof. Comes with one bedroom guest house with new windows. Each has it's own deck.  
 Large carport. Electrical updated, includes Washer & Dryer, Stove, & refrigerator. Well on property. Buyer will own propane tank \$35,000. Call for photos (660) 734-8878

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**Starting Wage \$10.00**  
 Open interviews Monday & Tuesday 9am-10am  
 • Career Opportunities  
 • Flexible Hours  
 • Quality Benefits for full-time Employees after one year:  
 - 2 weeks paid vacation  
 - Eligible for insurance  
 APPLY AT:  
 www.mcdonalds.com/careers

**HELP WANTED**  
 An Automotive Technician position exists within the Missouri State Highway Patrol's Troop B Headquarters. This employee will perform basic maintenance, service, and repair on Patrol vehicles and marine vessels, to include collision repair. The Career Opportunity Bulletin and application process is posted on the Patrol's website: www.mshp.dps.mo.gov. Applications will be accepted until September 24, 2019. The application website is not compatible with Google Chrome or mobile devices. Applicants should apply utilizing Internet Explorer. The facilitator for this position is Lieutenant Brian Anderson (660) 385-2132.

The Home Press is YOUR newspaper!  
 Submit your items of interest today!  
 news.homepress@gmail.com or 660-395-4663

**Macon County Planning Committee Seeks Public Input**  
 Macon County, MO - The Macon County Hazard Mitigation Planning Committee is seeking public input for the Macon County Missouri Natural Hazard Mitigation Plan currently being updated. The purpose is to provide information to the public on the Hazard Mitigation Plan that is being updated as well as gain public input. A planning committee comprised of Macon County Commissioners, cities within Macon County and school districts is currently updating a Hazard Mitigation Plan with a strategy to reduce the vulnerability of people and property in the County due to the impacts of natural hazards and to become eligible for mitigation funding programs from the Federal Emergency Management Agency (FEMA). The plan addresses a comprehensive list of hazards-ranging from tornadoes to flooding and severe winter weather and assesses the likely impacts of these hazards to communities in Macon County. A copy of the approved 2015 plan can be reviewed at www.marktwaincog.com or by visiting the Mark Twain Regional Council of Governments located at 42494 Delaware Lane, Perry, MO 63462. Public comments will be accepted until September 16, 2019 and can be provided to Devyn Campbell at 573-565-2203 or via e-mail at campbelldevyn@alstsch.com. Feedback from the public will be incorporated into the draft update, which will be available for public review and comment in November of 2019. Upon approval by the SEMA and FEMA the final plan will be presented to the Macon County Commissioners, City Councils and School Boards of each participating jurisdiction for formal adoption.

**AUCTIONS**  
**PUBLIC AUCTION**  
 We will sell the following items for Mr. & Mrs. Paul Walker, Truman Swingle, Jr. & various other estates and individuals at Christy's Auction House in La Plata, MO on  
**SAT., SEPTEMBER 14TH, 2019 @ 10 A.M.**  
**HOUSEHOLD GOODS:** Small curio cabinet w/mirror - wooden vanity bench w/mirror - very nice wooden dining table with large leaf & 6 pressed back chairs - full size bed complete - 5 drawer chest - dresser w/white top mirror - oak hall table - nice wooden cedar chest - wooden gas fireplace - kneehole desk - wooden office chair - oak end tables - wooden tall jewelry box - 3 nice oak pressed back bar stools - 2 like new Shark sweepers - Hoover Wind Tunnel sweeper - 2 area rugs - card table w/4 chairs - glider rocker w/footman - 2 Kenmore electric sewing machines - lots of sewing notions - small stereo - nice pictures - lots of figurines & what-nots - Christmas decor - decorated tree - large collection of collectible dolls - pots, pans, & odd end dishes - electrical appliances - costume jewelry - lots of other household items too numerous to mention (All of above items just like new). **ANTIQUES & COLLECTIBLES:** Walnut pump organ w/lantern top - very fancy hall mirror w/crystal & marble front - butternut double door wardrobe w/drawers on bottom - wooden double door storage cabinet w/piano front - oak wardrobe w/glass front - large wardrobe w/double doors, glass front & drawers on bottom - walnut 2 piece hutch - painted corner cabinet w/8 pane glass door - oak 2 piece kitchen cabinet - small walnut double glass door bookcase - oak love seat w/lantern top - painted pine safe missing 2 drawers - 6 round top ice-cream chairs - several walnut parlor lamp tables - walnut long drop leaf table - piano & organ stools - oak dresser bases - fancy walnut dresser w/oval mirror - wash stand w/back splash - large painted 2 piece cabinet - painted wooden book case - Duncan Phyfe table w/4 leaves - wooden folding dining table - wash stand w/lowel bars on both ends - Seth Thomas weight clock - Lincoln rocker w/cane bottom seat - Zenith upright wooden radio - few marble top pieces - camel back trunk - 2 large scrapbooks - sterling silver spoons - crocks & jugs - silverware - sad irons - ironware - toy tractors - pink & green depression glassware - fancy hand work - painted plates - lots of other primitives & collectibles too numerous to mention. **TRAILER, LAWNMOWER, WELDERS & TOOLS:** 1997, 16' tandem axle car trailer w/good floor - Murray hydrostat twin cylinder 16 hp riding lawnmower, 45" cut - 2 wheel lawn cart - Poulan & Homelite chainsaws - Wheelhorse 5500 watt generator - Honda 2800 psi portable pressure washer - Miller 110 mig welder w/cable - portable cutting torch complete w/cut - Lincoln AC 225 amp welder - 220 amp battery charger - portable air compressor - Milwaukee chop saw - 1/2" drive socket set - various other sockets & wrenches - 9" hand grinder - shopvac - bottle jacks - fiberglass stepladder - 2 wheel bench grinder - large vise - folding saw horses - receiver hitch - several lawn & garden tools - other items too numerous to mention. **AUCTIONEER'S NOTE:** Please plan to attend the clear auction as both buildings are full and we will be running two rings. **Cash/Check w/d - SALES TAX WILL BE CHARGED - Lunch on Grounds**

**Christy's Auction Service**  
 La Plata, MO 63449 660-341-4831  
 See Websites for Photos: www.christysauction.com  
 & Christy's Auction Services on Facebook  
 Auctioneers - David Christy  
 Jason Wood - 660-341-7884 Greg Shook - 660-341-5175

**IMAN AUCTION TAYLOR REAL ESTATE AUCTION**  
 2607 CR 1865 | JACKSONVILLE, MO  
**THURSDAY, SEPTEMBER 26 @ 12 NOON**

**REAL ESTATE OPEN HOUSE: Saturday, Sept. 14th | 11 - 1 PM**  
**REAL ESTATE:** (Sells @ 12 NOON) Property consists of a 3 bedroom home w/ never shop restocked on 21 acres - Home is a 2 1/2 bath mobile home w/ master bedroom w/ huge master bath w/ heated garden tub, additional shower & walk-in closets - Nice kitchen w/ recent new smooth top induction cooktop - Large open floor plan w/ cozy living room w/ hardwood flooring - All new laminate flooring throughout - Front & rear decks - Nice 2 car detached garage w/ insulated area, great main floor, office, etc - Metal wood storage shed - Entire property was established less than 4 years ago, everything is turn key - Property also provides great hunting w/ large timber to the west **REAL ESTATE TERMS:** One down Auction (10%) entry into Real Estate contract with balance due at closing. Auction will closing preferably within 45 days. Real Estate sold with owner confirmation.  
**Bob & Charlene Taylor, Sellers**  
 IMAN AUCTION COMPANY | 660-388-6235 | ImanAuction.com

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## MACON COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN




### PLAN UPDATE KICKOFF MEETING AUGUST 5, 2019


Project Planner: Devyn Campbell, Fiscal Officer  
Mark Twain Regional Council of Governments

1

## 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 2015 Macon County Multi-jurisdictional Hazard Mitigation Plan.



4

## AGENDA



- Hazard Mitigation Planning Purpose
- Grant Programs Linked to Approved Plan
- Planning Tasks / Multi-jurisdictional Approach
- Participation Requirements
- Public Involvement
- Data Collection Questionnaires
- Discussion of Hazards
- Critical Facility Inventory
- Next Steps in the Planning Process

2

## PRESIDENTIAL MAJOR DISASTER DECLARATIONS INCLUDING MACON COUNTY SINCE 1965



Heavy Rain, Tornadoes & Flooding	April 16, 1972	April 16, 1972
Drought	September 26, 1964	September 26, 1964
Severe Storms & Flooding	July 16, 1959	June 16, 1959 to Oct. 16, 1959
Severe Winter Ice Storm	February 4, 2006	Jan. 4, 2006 to Feb. 12, 2006
Severe Storms, Tornadoes & Flooding	May 4, 2003	May 4, 2003 to May 20, 2003
Severe Storms, Tornadoes & Flooding	June 11, 2004	May 11, 2004 to May 20, 2004
Hurricane Katrina Evacuation	September 16, 2004	Sept. 16, 2004 to Oct. 1, 2004
Severe Storms, Tornadoes & Flooding	March 16, 2004	March 16, 2004
Severe Winter Storms	December 14, 2007	Dec. 14, 2007 to Dec. 16, 2007
Severe Storms, Flooding & Tornado	November 13, 2007	Sept. 13, 2007 to Sept. 24, 2007
Severe Storms and Flooding	June 12, 2007	June 12, 2007
Severe Winter Storm	January 24, 2009	Jan. 24, 2009 to Jan. 25, 2009
Severe Winter Storm	February 2, 2009	Jan. 26, 2009 to Feb. 2, 2009

5

## 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

## APPROVED HAZARD MITIGATION PLAN ESTABLISHES ELIGIBILITY FOR FEMA HMA GRANTS




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



6






### 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.**


7



### 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


10



### PRE-DISASTER MITIGATION PROGRAM

- Annual Appropriation
- Nationally Competitive Grant
- 75% federal & 25% non-federal match
- FY 2018 Applications due to SEMA in the fall of 2018
  - Each state gets \$575,000
  - SEMA forwards selected applications to FEMA
- **An approved local mitigation plan is required.**

8




### MULTI-JURISDICTIONAL PLAN APPROACH

#### TASK 1: DETERMINE THE PLANNING AREA

- Macon County Commission
- Atlanta
- Bowler
- Callao
- Elmer
- Ethel
- La Plata
- Macon
- New Cambria
- Macon P-4 School
- Macon County R-IV Schools
- Callao Elementary Schools
- Atlanta C-3 Schools
- Bowler C-7 Schools
- La Plata Elementary
- La Plata High School

11



### 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
- FY 2018 Applications due to SEMA by 5/13/18
  - SEMA forwards selected applications to FEMA by 6/15/2018
- **An approved local mitigation plan is required.**

9



### HAZARD MITIGATION PLANNING COMMITTEE

#### TASK 2: BUILD THE PLANNING TEAM

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


12



### 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.

13



### PUBLIC INVOLVEMENT REQUIREMENTS

#### TASK 3: CREATING AN OUTREACH STRATEGY

- 1. During Drafting Stage  
Ideas to inform the public
  - Public Survey
  - Hard Copies—City Halls/Libraries/Post Offices?
  - Link on County Website/Other Websites?
  - Article in the newspaper
- 2. Prior to approval  
Draft Available via County Website  
Hard Copies—at least two public locations
- Other Ideas/Events to Inform the Public?


16



### REQUIREMENTS FOR EACH PARTICIPATING JURISDICTION

- Designate a representative to serve on the Hazard Mitigation Planning Committee, which will meet three times during the planning process;
- Provide data for and assist in the development of the updated risk assessment that describes how various hazards impact your jurisdiction;
- Provide data to describe current capabilities;
- Develop/update mitigation actions (at least one) specific to your jurisdiction;
- Provide comments on plan drafts as requested;
- Inform the public, local officials, and other interested parties about the planning process and provide opportunities for them to comment on the plan; and
- Formally adopt the mitigation plan.

14




### DATA COLLECTION QUESTIONNAIRES

#### TASK 4: REVIEWING COMMUNITY CAPABILITIES

#### TASK 5: CONDUCT RISK ASSESSMENT

- Separate forms for local govts. and schools
- Due to Devyn Campbell by August 23, 2019
  - Capability Assessment Section
    - Existing Plans/Policies/Ordinances
    - Administrative/Technical Capabilities
    - Fiscal Resources
  - Additional Questions
  - Historic Hazard Events
- Electronic copy will be provided in MS Word


17



### WHAT HAPPENS IF MY JURISDICTION CHOOSES NOT TO PARTICIPATE IN THE PLAN?

Jurisdictions (including public school districts) that have not participated in a FEMA-approved mitigation plan **will not be eligible applicants** for FEMA Hazard Mitigation Assistance grants.


15



### DATA COLLECTION QUESTIONNAIRES

- Look through Data Collection Guide
- Complete what you can
- Write down any questions

18



## 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


19



## LEEVE FAILURE

- Locations of Levees in Planning Area
  - Accredited levees
  - Non-accredited levees protecting populations
  - Agricultural Levees
- Previous Events


22



## 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


20



## DAM FAILURE

- Dams
  - State Regulated by Class
  - Federal by Class
  - Unregulated by Class
- Previous Events?


23



## FLOODING (MAJOR AND FLASH)

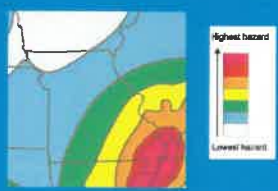
- Primary Flooding Sources
- Previous Events from NCDC (National Climatic Data Center)
- USDA Risk Management Agency Crop Insurance Payments
- Presidential Declarations
- FEMA Average Annual Loss Study

21



## EARTHQUAKE

- EQ Risk\ USGS Maps, etc.
- Previous Events in planning area




24



### LAND SUBSIDENCE/SINKHOLES


- Known Sinkhole Areas
  - Mines
  - Karst
- Previous Events

25



### SEVERE THUNDERSTORMS

- Presidential Declarations including severe storms
- Previous Events
  - NCEI NWS Watches/Warnings
  - USDA Risk Management Agency Crop Insurance Payments




28



### DROUGHT

- Typical Impacts
- National Drought Mitigation Center Drought Impact Reporter Impacts
- Previous Events from USDA Risk Management Agency's insured crop damages from drought

26



### SEVERE WINTER WEATHER

- Presidential Declarations including winter weather
- Previous Events
  - NCEI
  - NWS Watches/Warnings


29



### EXTREME TEMPERATURES

- Previous Events
  - NWS Advisories/Watches/Warnings for Heat/Excessive Heat or Cold/Wind Chill
  - NCEI National Centers for Environmental Information
  - Any injuries/fatalities?
  - USDA Risk Management Agency Crop Losses

27



### TORNADO

- Presidential Declarations including tornadoes
- Previous Events
  - NCEI
  - NWS Watches/Warnings

30




## WILDFIRE

- Previous Events from National Fire Incident Reporting System (if available)
- Wildland Urban Interface/Intermix from SILVIS maps




31



## ANALYSIS OF CRITICAL FACILITIES

- Impacts of some hazards will be considered for critical facilities
  - Ex. River Flood—critical facilities in floodplain
- Sources for Critical Facility Inventory in GIS

34



## CRITICAL FACILITIES

- Critical Facility—essential in providing utility or direction either during the response to an emergency or during the recovery operation.
  - Essential Facility—if damaged would have devastating impacts on disaster response and/or recovery.
  - High Potential Loss Facility—if damaged would have a high loss or impact on the community.
  - Transportation/Lifeline Facility—assets critical for transport and provision of necessary utilities


32



## NEXT STEPS IN THE PLANNING PROCESS

- August 23, 2019—Data Collection Guides Due
- September 5, 2019—2nd Planning Meeting
  - Risk Assessment Update Results
  - Critical Facility Analysis Results
  - Review/Update Mitigation Goals
  - Begin Status Updates for Previous Mitigation Actions
- October 7, 2019—3rd/Final Planning Meeting
  - Status Update Summary of Previous Mitigation Actions
  - Brainstorm / Discuss Potential New Mitigation Actions
  - Mitigation Action Implementation Plans for Continuing and New Actions
  - Discuss Plan Maintenance

35



## CRITICAL FACILITY EXAMPLES

Essential Facilities	High Potential Loss Facilities	Transportation and Lifeline
<ul style="list-style-type: none"> <li>• Hospitals and other medical facilities</li> <li>• Police stations</li> <li>• Fire station</li> <li>• Emergency Operations Centers</li> </ul>	<ul style="list-style-type: none"> <li>• Power plants</li> <li>• Dams/levees</li> <li>• Military installations</li> <li>• Hazardous material sites</li> <li>• Schools</li> <li>• Shelters</li> <li>• Day care centers</li> <li>• Nursing homes</li> <li>• Main government buildings</li> </ul>	<ul style="list-style-type: none"> <li>• Highways, bridges, and tunnels</li> <li>• Railroads and facilities</li> <li>• Bus facilities</li> <li>• Airports</li> <li>• Water treatment facilities</li> <li>• Natural gas facilities and pipelines</li> <li>• Oil facilities and pipelines</li> <li>• Communications facilities</li> </ul>

33

Macon County  
Multi-Jurisdictional Hazard Mitigation Plan Update  
Planning Meeting #2  
September 5, 2019  
2:00 pm

## Agenda

Welcome/Introductions

Devyn Campbell, Fiscal Officer  
Mark Twain Regional Council of Governments

Brief Review

Public Comment Update

Hudson  
La Plata

Participation Requirements/Status

Plan Update Format

Sample Results of Countywide Risk Assessment Update

Update Mitigation Goals

Discuss Mitigation Action Updates

Next Steps

- La Plata Nursing Home
- Macon Healthcare
- C-Com
- Advanced Disposal

**SAVE THE DATE:**

**Meeting #3- Tentatively October 7, 2019**

send out PPT  
follow up w/ schools!

Krista sending me <sup>A</sup> 10  
top

To **Macon County Hazard Mitigation Planning Committee**  
 From **Cindy Hultz, Executive Director**  
**Mark Twain Regional Council of Governments**  
 Tel / E-mail **573-565-2203 / hultzcog@rallstech.com**  
 Date **September 6, 2019**  
 Subject **Minutes from Macon County Hazard Mitigation Planning Meeting #2 held on September 5, 2019**

This document is a record of attendance and a summary of the issues discussed during the above meeting, including: a brief review of the purpose of a Hazard Mitigation Plan, the public survey update for this effort, participation requirements and the status of each jurisdiction, plan update format, sample results of the risk assessment, update of mitigation goals, discussion of status updates for previous mitigation actions, and the next steps in this process. The meeting was held at the Macon County Fairgrounds at 1305 S. Missouri, Macon, MO 63552 from 2:00 p.m. to 3:00 p.m.

## Attendees

---

<b>Name</b>	<b>Title</b>	<b>Jurisdiction</b>
Bobbie Jacques	City Clerk	City of La Plata
Clarence Walker	Commissioner	Macon County
Krista Bruno	Treasurer	Macon County
Alan Wyatt	Presiding Commissioner	Macon County
Shari Dye	Macon County EMD	Macon County
Denise Case	City Clerk	Atlanta
Sue Goulder	Director	Macon County Econ. Develop.
Ross Dutton	Fire Chief	City of Macon
Kevin Myers	Code Enforcement	City of Macon
Avis Marshall	City Administrator	City of Macon
Mike Chambers	Administrator	Macon Co. Health Department
Daniel Liebhart	Principal	Macon Co. R- IV School
Aimee Miller	City Clerk	Callao City Hall
Cheryl Blaise	CVC Coordinator	Macon Co. Health Department
Trinette Peukart	City Clerk	City of Bevier

## Introductions

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Cindy Hultz, Executive Director with Mark Twain Regional Council of Governments, began the meeting by welcoming and thanking the attendees for coming and having all attendees introduce themselves and the jurisdiction or entity they were representing.

## Purpose/Public Survey/Participation Status

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Cindy Hultz, Executive Director, with Mark Twain Regional Council of Governments provided a brief summary of the purpose of the Hazard Mitigation Plan and the Disaster Mitigation Act of 2000 that codified the requirement of local governments to adopt a hazard mitigation plan to maintain eligibility for FEMA Hazard Mitigation Assistance Grants. The nine-task planning process was summarized and participants were informed that at the conclusion of the meeting, the planning committee will have completed at least portions of Tasks 1-6. Cindy Hultz stated no comments had been received during the comment period.

A review of the requirements for jurisdictions to officially participate in the Multi-Jurisdictional Hazard Mitigation Plan was provided as well as a table summarizing each jurisdiction's participation to date.

## **Plan Format/Sample Results of Countywide Risk Assessment**

---

Cindy Hultz provided the overall format of the plan update document as follows:

- Executive Summary
- Chapter 1—Planning Process
- Chapter 2—Jurisdiction Profiles
- Chapter 3—Risk Assessment
- Chapter 4—Mitigation Strategy
- Chapter 5—Plan Maintenance
- Appendices

A PDF file of the Chapter 3 draft risk assessment has been uploaded on the Mark Twain Regional Council of Governments website. The planning committee, along with other representatives from their jurisdiction, were requested to review the risk assessment and provide comments and additional data by September 26, 2019.

## **Mitigation Goals**

---

Following the discussion of the risk assessment, Cindy Hultz facilitated a discussion of the mitigation goals. Common categories of mitigation goals were presented as well as the 2018 State Hazard Mitigation Plan goals.

This planning effort is an update to an existing hazard mitigation plan. As a result, the goals from the previous hazard mitigation plan were reviewed. The updated goals are as follows:

**Goal 1 Public Awareness**—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

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

**Goal 3. Investigate, implement, maintain, and enforce** mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.



## Mitigation Actions

---

The planning committee members were provided a handout of the actions that were included in the previous plan. Attendees were instructed to get into break-out groups with others from their jurisdiction to discuss the status of each action that applied to their jurisdiction.

The status updates of all previous actions are due by September 26, 2019. Meeting #3 will focus primarily on the development of new actions.

## Next Steps

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The meeting concluded with a discussion of the remaining steps to complete the planning process:

- September 26, 2019- Risk Assessment Comments and Action Status Due
- October 7, 2019-Final Meeting, Updating/Developing Mitigation Actions
- September 26, 2019- All Mitigation Action Forms Due (Continuing & New)
- November 2019- Final Draft of Plan Update for Committee Review
- November 2019- Final Public Comment Period / State Review
- December 1, 2019- Submit Plan to FEMA
- February 2020- Anticipate FEMA's Approval Pending Adoption
- November 2019- Jurisdictions Adopt Plan

## **Mitigation Plan Goals/ Objectives**

**Goal 1 Public Awareness**—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

Objective 1 Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.

Objective 2 Publicize appropriate mitigation measures for future natural hazards.

Objective 3 Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.

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

Objective 1 Build and support local partnerships to lessen the effects of natural hazards.

Objective 2 Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities.

Objective 3 Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.

**Goal 3 Investigate, implement, maintain, and enforce mitigation policies and programs** that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

Objective 1 Incorporate mitigation procedures and planning into the community.

Objective 2 Encourage private involvement in mitigation activities.

Objective 3 Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

## Update actions that apply to your jurisdiction

- Completed – provide date completed and funding amount if applicable
- KEEP Not Started – provide details on any plans made to initiate action
- KEEP In-Progress – provide details on progress made to-date
- KEEP Modify – provide details on changes/updates to the action
- Delete – provide reason for deleting

Discuss with other representatives from your jurisdiction. Be careful to distinguish between response actions (actions after event) and mitigation actions (actions before an event that reduce or eliminate need for response)

Actions should be SMART: specific, measurable, achievable, relevant, time bound

Return completed Status Update Worksheet by **September 26, 2019**

## Eligible Activities

Eligible Activities	HMGP	PDM	FMA
<b>1. Mitigation Projects</b>	X	X	X
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	
Localized Flood Reduction Projects	X	X	X
Non-localized Flood Risk Reduction Projects	X	X	
Structural Retrofitting of Existing Buildings	X	X	X
Non-structural Retrofitting of Existing Buildings and Facilities	X	X	X
Safe Room Construction	X	X	
Wind Retrofit for One- and Two-Family Residences	X	X	
Infrastructure Retrofit	X	X	X
Soil Stabilization	X	X	X
Wildfire Mitigation	X	X	
Post-Disaster Code Enforcement	X		
Advance Assistance	X		
5 Percent Initiative Projects	X		
Miscellaneous/Other <sup>(1)</sup>	X	X	X
<b>2. Hazard Mitigation Planning</b>	X	X	X
Planning Related Activities	X		
<b>3. Technical Assistance</b>			X
<b>4. Management Costs</b>	X	X	X

## Five Year Matrix

**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 1** Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.

Action Item #	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N—New R—Revision O—Ongoing	Funding***	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
1.1.1	Have educational brochures on what to do during a natural disaster available to schools and citizens	HMC, EMD, Health Dept, Fire Depts., local media	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓							Articles in newspapers, county website, social networks, facebook, twitter. Link all official website in the county. Newcomer package. Available at campgrounds
1.1.2	Have informational brochures on retrofitting windows available to distribute to Schools, Day Cares, and Nursing Homes.	HMC, EMD	6 mo-1yr	E	O	LF						✓								Also City Hall and Chamber office

\*\*Priority from STAPLEE analysis  
 HMC—Hazard Mitigation Committee  
 EMD—Emergency Management Director  
 EOC—Emergency Operations Center  
 MODOT—Missouri Dept. of Trans

**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 2** Publicize appropriate mitigation measures for future potential natural hazards.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
1.2.1		Have educational brochures on what to do during extreme heat conditions and distribute to nursing homes, childcare centers, schools.	HMC, EMD, Health Dept, local media, nursing homes, child care center, schools	Ongoing	NA	O	LF	✓	X	X		X									Articles in newspapers, county website, social networks, facebook, twitter. Link all official website in the county. County Fair will give out information	
1.2.2		Encourage Drought resistant yard watering practices. City has ordinance regulating water usage.	HMC, City Government	Ongoing	NA	O	LF	✓				X		X								
1.2.3		Work with local cable TV company to post severe natural hazards announcements.	HMC, Fire Dept., Police Dept., Cable Companies	1 yr	NA	R	LF					✓	✓									Delete County now has EAS "Nixle" Sin-up information is on county website
1.2.4		Have educational brochures on what to do during a natural disaster available to the public at the police station, fire station, and city hall. Articles published in local newspaper.	HMC, EMD, Fire Dept., media	6 mo-1yr	NA	O	LF					X	✓									
1.2.5		Distribute Design Construction Awareness Brochures with Building permits.	HMC, city government	Ongoing	N	O	LF						✓									

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 \*\*\* E—Existing N—New  
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 MODOT—Missouri Dept. of Trans

**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 3** Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	websites encourages purchase of NOAA radios, notice on utility bills	
1.3.1		Promote use of NOAA radios in businesses, private homes, and large gatherings	HMC	Ongoing	NA	R	LF	✓	✓	✓	✓	✓	✓	✓									
1.3.2		Have speaker available to conduct programs on earthquake safety and severe weather safety.	HMC	1-2 yrs	E N	O	LF	X	✓						X	X	X	X	X	X			

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HMC—Hazard Mitigation Committee  
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EMD—Emergency Management Director  
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**Goal 2** Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.

**Objective 1** Build and support local partnerships to lessen the effects of natural hazards.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
2.1.1		Co-op to remove trees from power line easements in addition to current trimming program	HMC, Macon Rural Electric Cooper	Ongoing	NA	O	F-S-G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Macon Municipal Utilities trims trees in Macon. LaPlata does tree trimming in LaPlata
2.1.2		Ensure that county school buses are outfitted with two-way communication	HMC, Schools, Health Dept.	Ongoing	NA	O	F-S-G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2.1.3		Partnership with NECAC for distribution of fans as needed.	HMC, NECAC, Health Dept.	6 months	NA	O	LF	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2.1.4		Obtain sufficient back-up generators for designated-shelters as funds become available.	HMC, EMD	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	“after the event”
2.1.5		Maintain Mutual Aid Agreements and update on regular schedule	Law enforcement, Emergency OP EMD, Fire Dept. Utility Depts	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2.1.6		Encourage schools to conduct programs on earthquake safety.	HMC, EMD	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
2.1.7		Spot check of elderly and special needs individuals.	HMC, Fire Dept., churches	Ongoing	NA	R	LF	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Co-op with Health Dept.

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

**Objective 2** Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
2.2.1		Conduct regularly scheduled training for weather spotters	HMC, EMD, Weather Bureau, Fire Depts.	Ongoing	NA	R	F-S- G LF	✓	✓	✓	✓	✓	✓								Training annually and advertise new classes
2.2.2		Maintain a list of special needs individuals.	HMC, Highway and Bridge Dept., Health Dept.	Ongoing	NA	R	LF	✓	X					X							Neighbors check on neighbors
2.2.3		Participate in regularly scheduled Table-top exercises and mock emergency exercises.	Law enforcement, Emergency OP personnel, EMD, Fire Dept.	Ongoing	NA	R	F-S- G LF	✓	X			✓	✓								LEPC and hospital drills also annually
2.2.4		Investigate the possibility of obtaining a warning siren as funds become available.	HMC, City Government	1-5 yrs	NA	R	F-S- G LF		✓	✓	X			✓							
2.2.5		Maintain and testing on regular schedule of the current warning siren system and upgrade as needed and funds become available.	HMC, EMD, Fire Dept., 911	Ongoing	NA	R	F-S- G LF		X	X		✓	✓								3 additional sirens added in Macon
2.2.6		Implement bi-annual Weather Spotter training	HMC, EMD, Fire Dept.	1 yr	NA	R	F-S- G LF						✓								annual

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 \*\*\* E—Existing N—New \*\*\*\* LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable  
 MODOT—Missouri Dept. of Trans

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

**Objective 3** Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.

Action Item #	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
2.3.1	Maintain and clean culverts and storm water drainage system on a regular schedule.	HMC, Highway & Bridge Dept, Street Dept.	Ongoing	E	O	LF	✓	X	X	✓	X	X								
2.3.2	Encourage Drought resistant farming practices	HMC, USDA, media, University Outreach	Ongoing	NA	O	LF	✓													
2.3.3	Encourage Landowners to inspect and maintain their dams according to Dept. of Natural Resources standards.	HMC, MO Dept. of Natural Resources	Ongoing	E	O	LF	✓													
2.3.4	Work with Army Corps of Engineers on Dam Safety at Long Branch Lake.	HMC, Army Corps of Engineers	Ongoing	NA	O	LF						X								
2.3.5	Regularly scheduled clean up of Sulfur Creek to mitigate flash flooding	HMC, Street Dept.	Ongoing	E	O	LF														Delete—not in city
2.3.6	Plan for debris removal is in place and a designated location for debris is established.	HMC, Street Dept.	Ongoing	E	O	LF		X	X			X								
2.3.7	Engineering study currently in place for drainage patterns.	HMC, MMU	Ongoing	E N	R	F-S G LF					X	✓								Macon finished phase 3, currently working on phase 4. LaPlata applying for grant to upgrade waste water system

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\*\*\* E—Existing N—New  
\*\*\*\* LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable  
EMD—Emergency Management Director EOC—Emergency Operations Center MODOOT—Missouri Dept. of Trans

**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
3.1.1		Conduct a study on all "at peril" roads and bridges. Make a plan to upgrade the "at peril" roads and bridges as funds become available.	HMC, Highway and Bridge Dept.	1-5 yrs	E	R	✓													County has made significant improvements on bridges and roads to mitigate flooding.	
3.1.2		Establish cooling center at shelter	HMC, EMD	Ongoing	NA	O	✓	✓	✓	✓	✓	✓	✓								
3.1.3		Evaluate and upgrade as needed the current emergency response communication infrastructure	HMC, 911, Police, Fire, Sheriff, Ambulance	Ongoing	NA	O	✓	✓	✓	✓	✓	✓	✓								
3.1.4		Maintain transportation infrastructure	Highway Dept. MODOT	Ongoing	NA	O	✓	✓	✓	✓	✓	✓	✓								
3.1.5		Update Emergency Operating Plan on a regular schedule.	Law enforcement, Emergency OP personnel, EMD, Fire Dept.	Ongoing	NA	O	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
3.1.6		Study of current warning siren system and upgrade as needed and funds become available.	HMC, Fire Dept.	1-2 yrs	NA	R			✓	✓	✓	✓	✓								Siren obtained in 2008
3.1.7		Review the storm water drainage system and upgrade as needed and as funds become available	HMC, Utility Dept.	3-5 yrs	NA	R	✓	✓	✓	✓	✓	✓	✓								LaPlata applying for grant to upgrade waste water system

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**Objective 1** Incorporate mitigation procedures and planning into the community.

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3.1.8		Update and maintain list of buildings that are designated as shelters, distribute list	HMC, EMD, law enforcement	Ongoing	NA	R	F-S- G LF	✓	✓	✓	✓	✓	✓	✓								"After the event"
3.1.9		Macon County 911 has direct notification of severe weather alerts to schools, nursing homes, hospitals, and Fire departments.	HMC, 911	Ongoing	NA	R	LF	✓														County has EAS "Nixle"
3.1.10		Maintain snow plowing and removal equipment. Maintain adequate supply of salt during icy weather.	Highway Dept. HMC, MODOT	Ongoing	NA	O	LF	✓	✓	✓		✓	✓									
3.1.11		Ensure that "Road Impassable" during high water signs are posted	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	✓					X									
3.1.12		Maintain Road and Bridge Equipment	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	✓					X									
3.1.13		Maintain a supply of extra culverts and materials for repairs for emergency use.	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	✓	X	X		X	X									
3.1.14		Maintain, map and update a list of low-lying roads and bridges that are in peril. Sheriff Dept. checks all low lying roads for problems.	HMC, Highway & Bridge Dept., Sheriff Dept, County 911	Ongoing	NA	O	LF	✓														

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
3.1.15		Obtain portable generator to maintain communication infrastructure as funds become available.	HMC, Police Dept., Fire Dept.	1-2 yrs	NA	R	LF					X	✓								Additional generators as funds become available	
3.1.16		Work with FEMA and Army Corp of Engineers to update Floodplain map as needed	HMC, City Government	1-5 yrs	NA	N	F-S- G LF		X			✓										
3.1.17		Maintain and replace missing street signs	911 Street Dept	Ongoing	NA	O	LF	X	✓			X	X	X								
3.1.18		Training and certification of Emergency Management Director	EMD, SEMA, HMC	1-5 yrs	NA	N	F-S- G LF	X	✓	X		X	✓									
3.1.19		Partnership with NECAC for distribution of fans as needed.	HMC, NECAC, churches	Ongoing	NA	O	LF			✓		X	✓									
3.1.20		Have a plan in place for local snow removal as needed in addition to snow removal provided by county on county roads.	HMC	Ongoing	NA	O	LF	X	X		✓	X										
3.1.21		Investigate possibility of obtaining chain saws for tree limb trimming and debris clean-up as funds become available.	HMC	1-2 yrs	NA	--	LF															Delete

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

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3.1.22		Utilities are being placed underground in the business districts and new subdivisions	MMU (Macon Municipal Utilities), HMC	Ongoing	NA	R	LF					✓										All residential areas
3.1.23		Water meters are being replaced with electronic read devices to eliminate meter breakages and possible water main breakage or damage.	MMU, HMC	2 yrs	NA	R	LF					X	✓									Completed- Macon Working-LaPlata
3.1.24		Maintain capability to generate city's electricity as needed.	HMC, MMU	Ongoing	NA	O	LF					X	✓									
3.1.25		Develop list of services, contacts for incoming helpers.	HMC, EMD	6 mo	NA	O	LF					X	✓									
3.1.26		Existing plan in place to have Macon Lake as the back-up water supply for the City of Macon.	MMU	Ongoing	NA	O	LF					✓										
3.1.27		Investigate possibility of obtaining back-up generator (s) for the Water Treatment and Waste Water Treatment Plants as funds become available.	HMC, MMU	2-5 yrs	NA	O	LF					X	✓									Completed

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 2** Encourage private involvement in mitigation activities.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N--New R--Revision O--Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
3.2.1	NEW		HMC, USDA, media, University Outreach	Ongoing	NA	N	LF	X													Encourage Drought resistant farming practices	
3.2.2	NEW		HMC, EMD, Health Dept.	6 months -1 year	NA	N	LF	X					X								Set up a schedule to publish timely articles in the local papers on safety during natural hazards throughout the year	

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 3** Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

Action Item #	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
3.3.1	In Macon County only cities of Macon and Elmer, participate in the NFIP. Macon County and the cities of Macon and Elmer will continue to comply and implement the NFIP requirements and to reduce the flood risks associated with the Flood Hazard Areas	HMC, Highway and Bridge Dept., Floodplain Managers	Ongoing	E N	R	F-S- G LF			X			√								Elmer no longer participates in NFIP
3.3.2	Burning Bans issued by County Commission as needed	HMC, County Comm.	Ongoing	E	R	LF	√	√	√	√	√	√	√							Also Fire Depts can issue
3.3.3	Update and maintain the fire suppression emergency plan with the Macon Rural Fire Dept, LEPC, and Northeast Missouri Grain Processors Ethanol Plant	HMC, LEPC, Macon Rural Fire Dept., NEMO Grain Processors Ethanol Plant	6 mo - 1 year	E	O	LF	√													
3.3.4	Enforce Floodplain Ordinance to ensure that no building is built in the floodplain zones.	HMC, floodplain Manager	Ongoing	E N	O	LF		X				X								
3.3.5	Establish an Emergency Management Director position for the city	HMC, City Government	1 yr	NA	O	LF		√	X			X								
3.3.6	Emergency snow routes are designated by city ordinance.	HMC, City Government	Ongoing	E N	O	LF						√								

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 3** Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
3.3.7		Enforcement of current building codes, BOCA	HMC, city government	Ongoing	E N	R	LF					X	✓								IIBC	
3.3.8		Review of storm water drainage system and capital improvement plan to upgrade water drainage as needed.	HMC, city government, MMU	1-5 yrs	E N	O	F-S- G LF	X				X	✓									
3.3.9		Established EOC (Emergency Operations Center) at the Fire/ Police Departments.	HMC, Fire Dept., Police Dept.	2-5 yrs	E N	N	F-S- G LF	X	X			X	✓									Complete

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# MACON COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE MEETING #2 —SIGN-IN SHEET

**Project:** Macon County, Missouri Multi-jurisdictional Hazard Mitigation Plan Update      **Meeting Date/Time:** September 5, 2019 2:00 p.m.  
**Facilitator:** Deyn Campbell, Fiscal Officer/Community Planner      **Place/Room:** Macon County Fairgrounds- Floral Hall  
 Mark Twain Regional Council of Governments      1305 S. Missouri Street, Macon, MO

Name	Title	Department/Agency	Email	Phone #	Signature
Robbie Jorgens	City Clerk		rob@cityofmacon.net		Robbie Jorgens
Clarene Walker	COMMISSIONER				Clarene Walker
Krista Bruno	Treasurer	Macon Co.	mct@cvalley.net	660-385-2713	Krista Bruno
Alan Wyatt	PRESIDENT Commissioner	Macon Co	MACON.PRESIDENT@jmacon.com	660 385 2 913	Alan Wyatt
Shari Dye	Macon County Emp	Macon Co.	director@maconcom.org	660-651-5086	Shari Dye
Denise Case	City Atlanta Clerk	Atlanta Mo	cityofatlanta@cvalley.net	660-239-4890	Denise A Case
Sue Gouldea	Director		sgouldea@cvalley.net	660-385-5627	Sue Gouldea
Ross Dutton	Macon Fire Dept	Macon Fire Dept	rdutton@maconfire.com	660-385-6436	Ross Dutton
Kevin Myers	Code Enforcement	City of Macon	codeenforce.macon@cityofmacon-mo.gov	660-385-2632	Kevin Myers
Avis Marshall	Macon City Administrator	City of Macon	administrator@cityofmacon-mo.gov	660-385-6436	Avis Marshall

# MACON COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE MEETING #2 —SIGN-IN SHEET

**Project:** Macon County, Missouri Multi-jurisdictional Hazard Mitigation Plan Update      **Meeting Date/Time:** September 5, 2019 2:00 p.m.

**Facilitator:** Devyn Campbell, Fiscal Officer/Community Planner      **Place/Room:** Macon County Fairgrounds- Floral Hall  
Mark Twain Regional Council of Governments      1305 S. Missouri Street, Macon, MO

Name	Title	Department/Agency	Email	Phone #	Signature
Mike Chambers	Administrator	macon county	mchambers@maconmo.gov	660-395-4711	[Signature]
David Liebhart	Principal	Macon Co. R-11 School Dist. New Canaan	dliebhart@mcrc4.k12.mo.us	660-412-5720	[Signature]
Aimee Miller	City Clerk	Callao City Hall	cityofcallao@va11ey.net	660-768-5414	[Signature]
CHERYL BLAISE	CVC COORDINATOR	MAON CO. HEALTH DEPT	cvc.coordinator@maconmo.gov	660-395-4711	[Signature]
Trinette Fenkert	City Clerk	City of Beaver	beavercity@va11ey.net	660-785-5314	[Signature]

## Devyn Campbell

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**From:** Devyn Campbell <campbellcog@rallstech.com>  
**Sent:** Thursday, August 15, 2019 4:42 PM  
**To:** Alan Wyatt; 'macon.district1@gmail.com'; 'macon.district2@gmail.com'; 'mct@cvalley.net'; 'cityofatlanta'; 'Cvalley'; 'cityofcallao@cvalley.net'; 'lois bragg'; 'Bobbie Jacques'; 'Robert'; 'tpate@cvalley.net'; 'Macon City Administrator'; 'debjaco@yahoo.com'; 'grannyof3ormore@yahoo.com'; 'Sue Goulder'; 'mail@maconmohealth.org'; 'macon.rbsuper@gmail.com'; 'customerservice@maconutilities.com'; 'sjarvis@macon.k12.mo.us'; 'jdunham@mcr4.k12.mo.us'; 'dliebhart@mcr4.k12.mo.us'; 'phalstead@callaoc8.k12.mo.us'; 'wperkins@atlanta.k12.mo.us'; 'jbrummit@atlanta.k12.mo.us'; 'patrickj@bevier.k12.mo.us'; 'Jason Martie'; 'amorris@laplata.k12.mo.us'  
**Cc:** Cindy Hultz  
**Subject:** Macon County Hazard Mitigation Plan Update

Subject: Macon County Multi-jurisdictional Hazard Mitigation Plan Update Meeting #2

Please remember if your jurisdiction does not participate in the plan update you will not be eligible for Hazard Mitigation grant funding.

On behalf of Macon County, you are invited to the second of three planning meetings to update the Macon County Multi-Jurisdictional Hazard Mitigation Plan. Through the planning meetings, we are working to update risk assessments and mitigation strategies for various hazards and threats that impact Macon County. The overall purpose is to identify mitigation measures to reduce or eliminate long-term risk to the people and property within your jurisdiction.

**Macon County Multi-Jurisdictional Hazard Mitigation Plan Update Meeting #2  
Draft Risk Assessment Overview and Review/Update Mitigation Goals**

**September 5, 2019**

**Meeting Time: 2:00 p.m.**

**Place: Macon County Fairgrounds- Floral Hall**

**Address: 1305 S. Missouri Street, Macon, MO**

The first planning meeting for this effort was held on August 5, 2019. As we discussed in the first meeting, the goal of this effort is to develop a comprehensive update to the existing Macon County Multi-Jurisdictional Hazard Mitigation Plan. This plan will ensure a coordinated approach to develop mitigation strategies and to work towards lessening the impact of hazards and threats in Macon County. The Disaster Mitigation Act of 2000 requires counties, municipalities, school districts, and other jurisdictions to participate in an approved Hazard Mitigation Plan to be eligible for certain federal hazard mitigation funding programs. To qualify as a participant in the plan, authorized representatives from each jurisdiction must participate in development of the plan update. It is essential for your jurisdiction to send at least one individual to the planning meeting detailed above. If you will be unable to attend, please ensure that someone else from your jurisdiction is designated to attend.

During this meeting, a summary will be provided of the draft risk assessment. Participants will be requested to contribute to the review. They will also help update the plan goals that provide the basis for the mitigation strategy portion of the plan. The planning committee will also begin the process of updating of the status of each hazard mitigation action that was included in the previous Hazard Mitigation Plan for Macon County.

The Mark Twain Regional Council of Governments has taken the lead in developing this plan. The point of contact is Devyn Campbell, Fiscal Officer/Community Planner. To successfully complete this project and ensure your organization is eligible for FEMA hazard mitigation assistance funding, we need your participation and input.

Please confirm your attendance or provide contact information for your designated alternate by responding to Devyn Campbell at 573-565-2203 or [campbellcog@rallstech.com](mailto:campbellcog@rallstech.com).

***Devyn Campbell***

**Mark Twain Regional Council of Governments  
Fiscal Officer/Community Planner**

42494 Delaware Lane  
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Elmer

## Five Year Matrix

**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 1** Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
1.1.1		Have educational brochures on what to do during a natural disaster available to schools and citizens	HMC, EMD, Health Dept, Fire Depts., local media	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓							Articles in newspapers, county website, social networks, facebook, twitter. Link all official website in the county. Newcomer package. Available at campgrounds <i>Deleba</i>	
1.1.2		Have informational brochures on retrofitting windows available to distribute to Schools, Day Cares, and Nursing Homes.	HMC, EMD	6 mo-1yr	E	O	LF						✓								Also City Hall and Chamber office <i>D</i>	

\*\*Priority from STAPLEE analysis  
 HMC—Hazard Mitigation Committee  
 \*\*\* E—Existing N—New  
 EMD—Emergency Management Director  
 EOC—Emergency Operations Center  
 \*\*\*\* LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable  
 MODOT—Missouri Dept. of Trans

**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 2** Publicize appropriate mitigation measures for future potential natural hazards.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
1.2.1		Have educational brochures on what to do during extreme heat conditions and distribute to nursing homes, childcare centers, schools.	HMC, EMD, Health Dept, local media, nursing homes, child care center, schools	Ongoing	NA	O	LF	✓	X	X											Articles in newspapers, county website, social networks, facebook, twitter. Link all official website in the county. County Fair will give out information	
1.2.2		Encourage Drought resistant yard watering practices. City has ordinance regulating water usage.	HMC, City Government	Ongoing	NA	O	LF	✓						X								
1.2.3		Work with local cable TV company to post severe natural hazards announcements.	HMC, Fire Dept., Police Dept., Cable Companies	1 yr	NA	R	LF	✓				✓	✓									Delete County now has EAS "Nixle" Sin-up information is on county website
1.2.4		Have educational brochures on what to do during a natural disaster available to the public at the police station, fire station, and city hall. Articles published in local newspaper.	HMC, EMD, Fire Dept., media	6 mo-1yr	NA	O	LF					X	✓									
1.2.5		Distribute Design Construction Awareness Brochures with Building permits.	HMC, city government	Ongoing	N	O	LF						✓									

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**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 3** Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	websites encourages purchase of NOAA radios, notice on utility bills
1.3.1		Promote use of NOAA radios in businesses, private homes, and large gatherings	HMC	Ongoing	NA	R	LF	✓	✓	✓	✓	✓	✓	✓								
1.3.2		Have speaker available to conduct programs on earthquake safety and severe weather safety.	HMC	1-2 yrs	E N	O	LF	X	✓			X	✓		X	X	X	X	X	X		Delete

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

**Objective 1** Build and support local partnerships to lessen the effects of natural hazards.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N--New R--Revision O--Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision		
2.1.1		Co-op to remove trees from power line easements in addition to current trimming program	HMC, Macon Rural Electric Cooper	Ongoing	NA	O	F-S-G	✓	✓	✓	✓	✓	✓								Macon Municipal Utilities trims trees in Macon. LaPlata does tree trimming in LaPlata	Delete	
2.1.2		Ensure that county school buses are outfitted with two-way communication	HMC, Schools, Health Dept.	Ongoing	NA	O	F-S-G	✓	✓			✓		X	X	X	X	X	X				
2.1.3		Partnership with NECAC for distribution of fans as needed.	HMC, NECAC, Health Dept.	6 months	NA	O	LF					✓	✓	X									
2.1.4		Obtain sufficient back-up generators for designated-shelters as funds become available.	HMC, EMD	Ongoing	NA	O	LF	✓	X	✓	✓	✓	✓	✓								"after the event"	Delete
2.1.5		Maintain Mutual Aid Agreements and update on regular schedule	Law enforcement, Emergency OP EMD, Fire Dept. Utility Depts	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓									Delete
2.1.6		Encourage schools to conduct programs on earthquake safety.	HMC, EMD	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓		Delete	
2.1.7		Spot check of elderly and special needs individuals.	HMC, Fire Dept., churches	Ongoing	NA	R	LF		✓	X	X											Co-op with Health Dept.	Delete

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

**Objective 2** Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
2.2.1		Conduct regularly scheduled training for weather spotters	HMC, EMD, Weather Bureau, Fire Depts.	Ongoing	NA	R	F-S- G LF	✓	✓	✓	✓	✓	✓								Training annually and advertise new classes <i>Delete</i>
2.2.2		Maintain a list of special needs individuals.	HMC, Highway and Bridge Dept., Health Dept.	Ongoing	NA	R	LF	✓	X					X							Neighbors check on neighbors
2.2.3		Participate in regularly scheduled Table-top exercises and mock emergency exercises.	Law enforcement, Emergency OP personnel, EMD, Fire Dept.	Ongoing	NA	R	F-S- G LF	✓	X	✓	✓	✓	✓								LEPC and hospital drills also annually
2.2.4		Investigate the possibility of obtaining a warning siren as funds become available.	HMC, City Government	1-5 yrs	NA	R	F-S- G LF		✓	✓	X		✓	✓							<i>Delete</i>
2.2.5		Maintain and testing on regular schedule of the current warning siren system and upgrade as needed and funds become available.	HMC, EMD, Fire Dept., 911	Ongoing	NA	R	F-S- G LF	X	X	✓	✓	✓	✓								3 additional sirens added in Macon
2.2.6		Implement bi-annual Weather Spotter training	HMC, EMD, Fire Dept.	1 yr	NA	R	F-S- G LF						✓								annual

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
3.1.1		Conduct a study on all "at peril" roads and bridges. Make a plan to upgrade the "at peril" roads and bridges as funds become available.	HMC, Highway and Bridge Dept.	1-5 yrs	E	R	F-S- G LF	✓													County has made significant improvements on bridges and roads to mitigate flooding.
3.1.2		Establish cooling center at shelter	HMC, EMD	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓							Delete
3.1.3		Evaluate and upgrade as needed the current emergency response communication infrastructure	HMC, 911, Police, Fire, Sheriff, Ambulance	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓								
3.1.4		Maintain transportation infrastructure	Highway Dept. MODOT	Ongoing	NA	O	F-S- G LF	✓	X	X	✓	✓	✓								
3.1.5		Update Emergency Operating Plan on a regular schedule.	Law enforcement, Emergency OP personnel, EMD, Fire Dept.	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	Delete
3.1.6		Study of current warning siren system and upgrade as needed and funds become available.	HMC, Fire Dept.	1-2 yrs	NA	R	F-S- G LF		X			X									Siren obtained in 2008
3.1.7		Review the storm water drainage system and upgrade as needed and as funds become available	HMC, Utility Dept.	3-5 yrs	NA	R	F-S- G LF	X	✓			✓									LaPlata applying for grant to upgrade waste water system

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Priority #	Action Item #	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
3.1.8		Update and maintain list of buildings that are designated as shelters, distribute list	HMC, EMD, law enforcement	Ongoing	NA	R	F-S- G LF	✓	✓	✓	✓	✓	✓	✓								"After the event" <i>Delete</i>
3.1.9		Macon County 911 has direct notification of severe weather alerts to schools, nursing homes, hospitals, and Fire departments.	HMC, 911	Ongoing	NA	R	LF	✓														County has EAS "Nixle"
3.1.10		Maintain snow plowing and removal equipment. Maintain adequate supply of salt during icy weather.	Highway Dept. HMC, MODOT	Ongoing	NA	O	LF	✓	✓	✓		✓	✓									
3.1.11		Ensure that "Road Impassable" during high water signs are posted	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	✓					X									
3.1.12		Maintain Road and Bridge Equipment	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	✓				X										
3.1.13		Maintain a supply of extra culverts and materials for repairs for emergency use.	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	✓	✓	X		X										
3.1.14		Maintain, map and update a list of low-lying roads and bridges that are in peril. Sheriff Dept. checks all low lying roads for problems.	HMC, Highway & Bridge Dept., Sheriff Dept., County 911	Ongoing	NA	O	LF	✓														

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N—New R—Revision O—Ongoing	Funding****	Macon County	Beverly	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Beverly C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	Additional generators as funds become available
3.1.15		Obtain portable generator to maintain communication infrastructure as funds become available.	HMC, Police Dept., Fire Dept.	1-2 yrs	NA	R	LF					X	✓									
3.1.16		Work with FEMA and Army Corp of Engineers to update Floodplain map as needed	HMC, City Government	1-5 yrs	NA	N	F-S- G LF		X				✓									
3.1.17		Maintain and replace missing street signs	911 Street Dept	Ongoing	NA	O	LF	X	✓			X	X	X								
3.1.18		Training and certification of Emergency Management Director	EMD, SEMA, HMC	1-5 yrs	NA	N	F-S- G LF	X	✓	X		X	✓									
3.1.19		Partnership with NECAC for distribution of fans as needed.	HMC, NECAC, churches	Ongoing	NA	O	LF			✓		X	✓									
3.1.20		Have a plan in place for local snow removal as needed in addition to snow removal provided by county on county roads.	HMC	Ongoing	NA	O	LF	X			✓	X										
3.1.21		Investigate possibility of obtaining chain saws for tree limb trimming and debris clean-up as funds become available.	HMC	1-2 yrs	NA	--	LF															Delete

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
3.1.22		Utilities are being placed underground in the business districts and new subdivisions	MMU (Macon Municipal Utilities), HMC	Ongoing	NA	R	LF					✓									All residential areas	
3.1.23		Water meters are being replaced with electronic read devices to eliminate meter breakages and possible water main breakage or damage.	MMU, HMC	2 yrs	NA	R	LF				X		✓								Completed- Macon Working-LaPlata	
3.1.24		Maintain capability to generate city's electricity as needed.	HMC, MMU	Ongoing	NA	O	LF				X		✓									
3.1.25		Develop list of services, contacts for incoming helpers.	HMC, EMD	6 mo	NA	O	LF				X		✓									
3.1.26		Existing plan in place to have Macon Lake as the back-up water supply for the City of Macon.	MMU	Ongoing	NA	O	LF					✓										
3.1.27		Investigate possibility of obtaining back-up generator (s) for the Water Treatment and Waste Water Treatment Plants as funds become available.	HMC, MMU	2-5 yrs	NA	O	LF					X	✓									Completed

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 2.** Encourage private involvement in mitigation activities.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
3.2.1	NEW		HMC, USDA, media, University Outreach	Ongoing	NA	N	LF	X													Encourage Drought resistant farming practices	
3.2.2	NEW		HMC, EMD, Health Dept.	6 months -1 year	NA	N	LF	X					X									Set up a schedule to publish timely articles in the local papers on safety during natural hazards throughout the year

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 3** Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

Priority** Action Item #	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
3.3.1	In Macon County only cities of Macon and Elmer, participate in the NFIP. Macon County and the cities of Macon and Elmer will continue to comply and implement the NFIP requirements and to reduce the flood risks associated with the Flood Hazard Areas	HMC, Highway and Bridge Dept., Floodplain Managers	Ongoing	E N	R	F-S- G LF		X				✓									Elmer no longer participates in NFIP
3.3.2	Burning Bans issued by County Commission as needed	HMC, County Comm.	Ongoing	E	R	LF	✓	✓	✓	✓	✓	✓	✓								Also Fire Depts can issue
3.3.3	Update and maintain the fire suppression emergency plan with the Macon Rural Fire Dept, LEPC, and Northeast Missouri Grain Processors Ethanol Plant	HMC, LEPC, Macon Rural Fire Dept., NEMO Grain Processors Ethanol Plant	6 mo - 1 year	E	O	LF	✓														Delete
3.3.4	Enforce Floodplain Ordinance to ensure that no building is built in the floodplain zones.	HMC, floodplain Manager	Ongoing	E N	O	LF		X				X									
3.3.5	Establish an Emergency Management Director position for the city	HMC, City Government	1 yr	NA	O	LF		✓	X			X									
3.3.6	Emergency snow routes are designated by city ordinance.	HMC, City Government	Ongoing	E N	O	LF						✓									

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 3** Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

Priority** Action Item #	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
3.3.7	Enforcement of current building codes, BOCA	HMC, city government	Ongoing	E N	R	LF					X	✓								IIBC
3.3.8	Review of storm water drainage system and capital improvement plan to upgrade water drainage as needed.	HMC, city government, MMU	1-5 yrs	E N	O	F-S- G LF	X				X	✓								
3.3.9	Established EOC (Emergency Operations Center) at the Fire/ Police Departments.	HMC, Fire EMD, Fire Dept., Police Dept.	2-5 yrs	E N	N	F-S- G LF	X	X	X		X	✓								Complete

\*\*Priority from STAPLEE analysis  
HMC—Hazard Mitigation Committee      EMD—Emergency Management Director      EOC—Emergency Operations Center      MODOT—Missouri Dept. of Trans  
\*\*\* E—Existing    N—New      \*\*\*\* LF—Local Funding    F-S-G Federal / State Grants    N/A Not Applicable

### Five Year Matrix

**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 1** Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.

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1.1.1		<i>Dol</i> Have educational brochures on what to do during a natural disaster available to schools and citizens	HMC, EMD, Health Dept, Fire Depts., local media	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓							Articles in newspapers, county website, social networks, facebook, twitter. Link all official website in the county. Newcomer package. Available at campgrounds	
1.1.2		Have informational brochures on retrofitting windows available to distribute to Schools, Day Cares, and Nursing Homes.	HMC, EMD	6 mo-1yr	E	O	LF						✓								Also City Hall and Chamber office	

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**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 2** Publicize appropriate mitigation measures for future potential natural hazards.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
1.2.1		Have educational brochures on what to do during extreme heat conditions and distribute to nursing homes, childcare centers, schools.	HMC, EMD, Health Dept, local media, nursing homes, child care center, schools	Ongoing	NA	O	LF	✓	✗	X		X									Articles in newspapers, county website, social networks, facebook, twitter. Link all official website in the county. County Fair will give out information	
1.2.2		Encourage drought resistant yard watering practices. City has ordinance regulating water usage.	HMC, City Government	Ongoing	NA	O	LF	✗	✗			X		X								
1.2.3		Work with local cable TV company to post severe natural hazards announcements.	HMC, Fire Dept., Police Dept., Cable Companies	1 yr	NA	R	LF	✗	✗			✓	✓									Delete County now has EAS "Nixle" Sin-up information is on county website
1.2.4		Have educational brochures on what to do during a natural disaster available to the public at the police station, fire station, and city hall. Articles published in local newspaper.	HMC, EMD, Fire Dept., media	6 mo-1yr	NA	O	LF					X	✓									
1.2.5		Distribute Design Construction Awareness Brochures with Building permits.	HMC, city government	Ongoing	N	O	LF						✓									

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**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 3** Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	websites encourages purchase of NOAA radios, notice on utility bills
1.3.1		Promote use of NOAA radios in businesses, private homes, and large gatherings	HMC	Ongoing	NA	R	LF	✓	✗	✓	✓	✓	✓	✓								
1.3.2		Have speaker available to conduct programs on earthquake safety and severe weather safety.	HMC	1-2 yrs	E N	O	LF	X	✗			X	✓		X	X	X	X	X	X		

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

**Objective 1** Build and support local partnerships to lessen the effects of natural hazards.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
2.1.1	2.1.1	Co-op to remove trees from power line easements in addition to current trimming program	HMC, Macon Rural Electric Cooper	Ongoing	NA	O	F-S-G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Macon Municipal Utilities trims trees in Macon. LaPlata does tree trimming in LaPlata	
2.1.2	2.1.2	Ensure that county school buses are outfitted with two-way communication	HMC, Schools, Health Dept.	Ongoing	NA	O	F-S-G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
2.1.3	2.1.3	Partnership with NECAC for distribution of fans as needed.	HMC, NECAC, Health Dept.	6 months	NA	O	LF					✓	✓	✓								
2.1.4	2.1.4	Obtain sufficient back-up generators for designated shelters as funds become available.	HMC, EMD	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	"after the event"	
2.1.5	2.1.5	Maintain Mutual Aid Agreements and update on regular schedule	Law enforcement, Emergency OP EMD, Fire Dept, Utility Depts	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
2.1.6	2.1.6	Encourage schools to conduct programs on earthquake safety.	HMC, EMD	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
2.1.7	2.1.7	Spot check of elderly and special needs individuals.	HMC, Fire Dept, churches	Ongoing	NA	R	LF	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Co-op with Health Dept.	

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

**Objective 2** Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N—New R—Revision O—Ongoing	Funding***	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision		
2.2.1	Done	Conduct regularly scheduled training for weather spotters	HMC, EMD, Weather Bureau, Fire Depts.	Ongoing	NA	R	F-S- G LF	✓	✓	✓	✓	✓	✓									Training annually and advertise new classes	
2.2.2	Done	Maintain a list of special needs individuals. <i>Complete</i>	HMC, Highway and Bridge Dept., Health Dept.	Ongoing	NA	R	LF	✓	✗	X				X								Neighbors check on neighbors	
2.2.3	Done	Participate in regularly scheduled Table-top exercises and mock emergency exercises. <i>Done</i>	Law enforcement, Emergency OP personnel, EMD, Fire Dept.	Ongoing	NA	R	F-S- G LF	✓	✗	X		✓	✓									LEPC and hospital drills also annually	
2.2.4	Done	Investigate the possibility of obtaining a warning siren as funds become available.	HMC, City Government	1-5 yrs	NA	R	F-S- G LF		✓	✓	X			✓									
2.2.5	Done	Maintain and testing on regular schedule of the current warning siren system and upgrade as needed and funds become available. <i>Partially</i>	HMC, EMD, Fire Dept., 911	Ongoing	NA	R	F-S- G LF		✗	X		✓	✓									3 additional sirens added in Macon	
2.2.6	Done	Implement bi-annual Weather Spotter training	HMC, EMD, Fire Dept.	1 yr	NA	R	F-S- G LF						✓									annual	

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

**Objective 3** Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N---New R---Revision O---Ongoing	Funding***	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
2.3.1	High	Maintain and clean culverts and storm water drainage system on a regular schedule.	HMC, Highway & Bridge Dept., Street Dept.	Ongoing	E	O	LF	✓	✗	X	✓	X	X									
2.3.2		Encourage Drought resistant farming practices	HMC, USDA, media, University Outreach	Ongoing	NA	O	LF	✓														
2.3.3		Encourage Landowners to inspect and maintain their dams according to Dept. of Natural Resources standards.	HMC, MO Dept. of Natural Resources	Ongoing	E	O	LF	✓														
2.3.4		Work with Army Corps of Engineers on Dam Safety at Long Branch Lake.	HMC, Army Corps of Engineers	Ongoing	NA	O	LF						X									
2.3.5		Regularly scheduled clean up of Sulfur Creek to mitigate flash flooding	HMC, Street Dept.	Ongoing	E	O	LF															Delete---not in city
2.3.6	High	Plan for debris removal in place and a designated location for debris is established.	HMC, Street Dept.	Ongoing	E	O	LF	✗	✗	X			X									
2.3.7		Engineering study currently in place for drainage patterns.	HMC, MMU	Ongoing	E N	R	F-S- G LF						X									Macon finished phase 3, currently working on phase 4. LaPlata applying for grant to upgrade waste water system

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F-S-G Federal / State Grants  
N/A Not Applicable



**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Action Item #	Priority #	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
3.1.1		Conduct a study on all "at peril" roads and bridges. Make a plan to upgrade the "at peril" roads and bridges as funds become available.	HMC, Highway and Bridge Dept.	1-5 yrs	E	R	F-S- G LF	✓													County has made significant improvements on bridges and roads to mitigate flooding.	
3.1.2	<i>Delte</i>	<i>Complete</i> Establish cooling center at shelter	HMC, EMD	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓								
3.1.3	<i>Delte</i>	Evaluate and upgrade as needed the current emergency response communication infrastructure	HMC, 911, Police, Fire, Sheriff, Ambulance	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓								
3.1.4	<i>Keep</i>	<i>bridge repair</i> Maintain transportation infrastructure	Highway Dept. MODOT	Ongoing	NA	O	F-S- G LF	✓	✓	✓	✓	✓	✓	✓								<i>Keep</i>
3.1.5	<i>Delte</i>	<i>Complete</i> Update Emergency Operating Plan on a regular schedule.	Law enforcement, Emergency OP personnel, EMD, Fire Dept.	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X		
3.1.6		Study of current warning siren system and upgrade as needed and funds become available.	HMC, Fire Dept.	1-2 yrs	NA	R	F-S- G LF		X			X									Siren obtained in 2008	
3.1.7	<i>Delte</i>	Review the storm water drainage system and upgrade as needed and as funds become available	HMC, Utility Dept.	3-5 yrs	NA	R	F-S- G LF	X	✓			✓										La Plata applying for grant to upgrade waste water system <i>Keep</i>

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

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<i>Done</i> 3.1.8		<i>Complete</i> Update and maintain list of buildings that are designated as shelters, distribute list	HMC, EMD, law enforcement	Ongoing	NA	R	F-S- G LF	✓	✓	✓	✓	✓	✓	✓								"After the event"
3.1.9		Macon County 911 has direct notification of severe weather alerts to schools, nursing homes, hospitals, and Fire departments.	HMC, 911	Ongoing	NA	R	LF	✓														County has EAS "Nixle"
<i>Done</i> 3.1.10		<i>Complete</i> Maintain snow plowing and removal equipment. Maintain adequate supply of salt during icy weather.	Highway Dept. HMC, MODOT	Ongoing	NA	O	LF	✓	✓	✓		✓	✓									
3.1.11		Ensure that "Road Impassable" during high water signs are posted	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	✓					X									
3.1.12		Maintain Road and Bridge Equipment	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	✓					X									
<i>Done</i> 3.1.13		<i>Complete</i> Maintain a supply of extra culverts and materials for repairs for emergency use.	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	✓	✓	X		X	X									
3.1.14		Maintain, map and update a list of low-lying roads and bridges that are in peril. Sheriff Dept. checks all low lying roads for problems.	HMC, Highway & Bridge Dept., Sheriff Dept., County 911	Ongoing	NA	O	LF	✓														

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

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3.1.15		Obtain portable generator to maintain communication infrastructure as funds become available.	HMC, Police Dept., Fire Dept.	1-2 yrs	NA	R	LF					X	✓									
3.1.16		Work with FEMA and Army Corp of Engineers to update Floodplain map as needed	HMC, City Government	1-5 yrs	NA	N	F-S-G LF		X				✓									
3.1.17		Maintain and replace missing street signs	911 Street Dept	Ongoing	NA	O	LF	X				X	X	X								
3.1.18		Training and certification of Emergency Management Director	EMD, SEMA, HMC	1-5 yrs	NA	N	F-S-G LF	X		X		X	✓									
3.1.19		Partnership with NECAC for distribution of fans as needed.	HMC, NECAC, churches	Ongoing	NA	O	LF			✓		X	✓									
3.1.20		Have a plan in place for local snow removal as needed in addition to snow removal provided by county on county roads.	HMC	Ongoing	NA	O	LF					✓	X									
3.1.21		Investigate possibility of obtaining chain saws for tree limb trimming and debris clean-up as funds become available.	HMC	1-2 yrs	NA	--	LF															Delete

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Action Item #	Priority#	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
3.1.22		Utilities are being placed underground in the business districts and new subdivisions	MMU (Macon Municipal Utilities), HMC	Ongoing	NA	R	LF						✓								All residential areas	
3.1.23		Water meters are being replaced with electronic read devices to eliminate meter breakages and possible water main breakage or damage.	MMU, HMC	2 yrs	NA	R	LF					X	✓								Completed- Macon Working-LaPlata	
3.1.24		Maintain capability to generate city's electricity as needed.	HMC, MMU	Ongoing	NA	O	LF					X	✓									
3.1.25		Develop list of services, contacts for incoming helpers.	HMC, EMD	6 mo	NA	O	LF					X	✓									
3.1.26		Existing plan in place to have Macon Lake as the back-up water supply for the City of Macon.	MMU	Ongoing	NA	O	LF						✓									
3.1.27		Investigate possibility of obtaining back-up generator (s) for the Water Treatment and Waste Water Treatment Plants as funds become available.	HMC, MMU	2-5 yrs	NA	O	LF					X	✓									Completed

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 2** Encourage private involvement in mitigation activities.

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3.2.1	NEW		HMC, USDA, media, University Outreach	Ongoing	NA	N	LF	X													Encourage Drought resistant farming practices	
3.2.2	NEW		HMC, EMD, Health Dept.	6 months -1 year	NA	N	LF	X				X									Set up a schedule to publish timely articles in the local papers on safety during natural hazards throughout the year	

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 3** Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

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3.3.1		In Macon County only cities of Macon and Elmer, participate in the NFIP. Macon County and the cities of Macon and Elmer will continue to comply and implement the NFIP requirements and to reduce the flood risks associated with the Flood Hazard Areas	HMC, Highway and Bridge Dept., Floodplain Managers	Ongoing	E N	R	F-S- G LF			X			✓								Elmer no longer participates in NFIP
3.3.2		Burning Bans issued by County Commission as needed	HMC, County Comm.	Ongoing	E	R	LF	✓		✓	✓	✓	✓	✓							Also Fire Depts can issue
3.3.3		Update and maintain the fire suppression emergency plan with the Macon Rural Fire Dept, LEPC, and Northeast Missouri Grain Processors Ethanol Plant	HMC, LEPC, Macon Rural Fire Dept., NEMO Grain Processors Ethanol Plant	6 mo - 1 year	E	O	LF	✓													
3.3.4		Enforce Floodplain Ordinance to ensure that no building is built in the floodplain zones.	HMC, floodplain Manager	Ongoing	E N	O	LF		X			X									
3.3.5		Establish an Emergency Management Director position for the city	HMC, City Government	1 yr	NA	O	LF		X	X			X								
3.3.6		Emergency snow routes are designated by city ordinance.	HMC, City Government	Ongoing	E N	O	LF					✓									

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 3** Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	Laplata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	Laplata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
3.3.7		Enforcement of current building codes, BOCA	HMC, city government	Ongoing	E N	R	LF					X	✓								IIBC	
3.3.8		Review of storm water drainage system and capital improvement plan to upgrade water drainage as needed.	HMC, city government, MMU	1-5 yrs	E N	O	F-S-G LF					X	✓									
3.3.9		Established EOC (Emergency Operations Center) at the Fire/ Police Departments.	HMC, EMD, Fire Dept., Police Dept.	2-5 yrs	E N	N	F-S-G LF			X		X	✓									Complete

\*\*Priority from STAPLEE analysis  
 HMC—Hazard Mitigation Committee  
 EMD—Emergency Management Director  
 EOC—Emergency Operations Center  
 MODOT—Missouri Dept. of Trans

\*\*\* E—Existing N—New  
 \*\*\*\* LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable





**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 2** Publicize appropriate mitigation measures for future potential natural hazards.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
1.2.1		Have educational brochures on what to do during extreme heat conditions and distribute to nursing homes, childcare centers, schools.	HMC, EMD, Health Dept, local media, nursing homes, child care center, schools	Ongoing	NA	O	LF	✓	X	X	X	X									Articles in newspapers, county website, social networks, facebook, twitter. Link all official websites in the county. County Fair will give out information	
1.2.2		Encourage Drought resistant yard watering practices. City has ordinance regulating water usage.	HMC, City Government	Ongoing	NA	O	LF	✓						X								Delete
1.2.3		Work with local cable TV company to post severe natural hazards announcements.	HMC, Fire Dept., Police Dept., Cable Companies	1 yr	NA	R	LF	✓				✓	✓									Delete Delete County now has EAS "Nixle" Sin-up information is on county website
1.2.4		Have educational brochures on what to do during a natural disaster available to the public at the police station, fire station, and city hall. Articles published in local newspaper.	HMC, EMD, Fire Dept., media	6 mo-1yr	NA	O	LF					X	✓									Delete
1.2.5		Distribute Design Construction Awareness Brochures with Building permits.	HMC, city government	Ongoing	N	O	LF						✓									

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

**Objective 1** Build and support local partnerships to lessen the effects of natural hazards.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
2.1.1		Co-op to remove trees from power line easements in addition to current trimming program	HMC, Macon Rural Electric Cooper	Ongoing	NA	O	F-S-G	✓	✓	✓	✓	✓	✓	✓								Macon Municipal Utilities trims trees in Macon. LaPlata does tree trimming in LaPlata <i>delete</i>
2.1.2		Ensure that county school buses are outfitted with two-way communication	HMC, Schools, Health Dept.	Ongoing	NA	O	F-S-G	✓	✓													<i>delete</i>
2.1.3		Partnership with NECAC for distribution of fans as needed.	HMC, NECAC, Health Dept.	6 months	NA	O	LF					✓	✓	✓								<i>delete</i> <i>delete</i> <i>completed</i>
2.1.4		Obtain sufficient back-up generators for designated-shelters as funds become available.	HMC, EMD	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓								"after the event" <i>delete</i>
2.1.5		Maintain Mutual Aid Agreements and update on regular schedule	Law enforcement, Emergency OP EMD, Fire Dept, Utility Depts	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓								<i>delete</i>
2.1.6		Encourage schools to conduct programs on earthquake safety.	HMC, EMD	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓								<i>delete</i>
2.1.7		Spot check of elderly and special needs individuals.	HMC, Fire Dept., churches	Ongoing	NA	R	LF	✓	✓	✓	✓	✓	✓	✓								Co-op with Health Dept.

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**Goal 2**  
hazards.

Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.

**Objective 2** Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
2.2.1		Conduct regularly scheduled training for weather spotters	HMC, EMD, Weather Bureau, Fire Depts.	Ongoing	NA	R	F-S- G LF	✓	✓	✓	✓	✓	✓								Training annually and advertise new classes <i>delete</i>
2.2.2		Maintain a list of special needs individuals.	HMC, Highway and Bridge Dept., Health Dept.	Ongoing	NA	R	LF	✓	X	X				X							Neighbors check on neighbors
2.2.3		Participate in regularly scheduled Table-top exercises and mock emergency exercises.	Law enforcement, Emergency OP personnel, EMD, Fire Dept.	Ongoing	NA	R	F-S- G LF	✓	✓	X		✓	✓								LEPC and hospital drills also annually <i>Completed</i>
2.2.4		Investigate the possibility of obtaining a warning siren as funds become available.	HMC, City Government	1-5 yrs	NA	R	F-S- G LF			✓	✓	X		✓							<i>Completed</i>
2.2.5		Maintain and testing on regular schedule of the current warning siren system and upgrade as needed and funds become available.	HMC, EMD, Fire Dept., 911	Ongoing	NA	R	F-S- G LF		X	X		✓	✓								3 additional sirens added in Macon <i>Completed</i>
2.2.6		Implement bi-annual Weather Spotter training	HMC, EMD, Fire Dept.	1 yr	NA	R	F-S- G LF						✓								annual

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MODOT—Missouri Dept. of Trans

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

**Objective 3** Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.

Action Item #	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N-New R-Revision O-Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
2.3.1	Maintain and clean culverts and storm water drainage system on a regular schedule.	HMC, Highway & Bridge Dept, Street Dept.	Ongoing	E	O	LF	✓	X	X	✓	X	X									
2.3.2	Encourage Drought resistant farming practices	HMC, USDA, media, University Outreach	Ongoing	NA	O	LF	✓														Completed
2.3.3	Encourage Landowners to inspect and maintain their dams according to Dept. of Natural Resources standards.	HMC, MO Dept. of Natural Resources	Ongoing	E	O	LF	✓														
2.3.4	Work with Army Corps of Engineers on Dam Safety at Long Branch Lake.	HMC, Army Corps of Engineers	Ongoing	NA	O	LF						X									
2.3.5	Regularly scheduled clean up of Sulfur Creek to mitigate flash flooding	HMC, Street Dept.	Ongoing	E	O	LF															Delete—not in city
2.3.6	Plan for debris removal is in place and a designated location for debris is established.	HMC, Street Dept.	Ongoing	E	O	LF		X	X			X									
2.3.7	Engineering study currently in place for drainage patterns.	HMC, MMU	Ongoing	E N	R	F-S-G LF					X	✓									Macon finished phase 3, currently working on phase 4. LaPlata applying for grant to upgrade waste water system

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*Completed*

**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Action Item #	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
3.1.1	Conduct a study on all "at peril" roads and bridges. Make a plan to upgrade the "at peril" roads and bridges as funds become available.	HMC, Highway and Bridge Dept.	1-5 yrs	E	R	F-S- G LF	✓													County has made significant improvements on bridges and roads to mitigate flooding.
3.1.2	Establish cooling center at shelter	HMC, EMD	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓							Completed
3.1.3	Evaluate and upgrade as needed the current emergency response communication infrastructure	HMC, 911, Police, Fire, Sheriff, Ambulance	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓							Completed
3.1.4	Maintain transportation infrastructure	Highway Dept. MODOT	Ongoing	NA	O	F-S- G LF	✓	✓	X		✓	✓	✓							Completed
3.1.5	Update Emergency Operating Plan on a regular schedule.	Law enforcement, Emergency OP personnel, EMD, Fire Dept.	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	Completed
3.1.6	Study of current warning siren system and upgrade as needed and funds become available.	HMC, Fire Dept.	1-2 yrs	NA	R	F-S- G LF			X		X									Siren obtained in 2008
3.1.7	Review the storm water drainage system and upgrade as needed and as funds become available	HMC, Utility Dept.	3-5 yrs	NA	R	F-S- G LF		X	✓		✓									LaPlata applying for grant to upgrade waste water system

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

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3.1.8		Update and maintain list of buildings that are designated as shelters, distribute list	HMC, EMD, law enforcement	Ongoing	NA	R	F-S- G LF	✓	✓	✓	✓	✓	✓	✓								"After the event" <i>delete</i>
3.1.9		Macon County 911 has direct notification of severe weather alerts to schools, nursing homes, hospitals, and Fire departments.	HMC, 911	Ongoing	NA	R	LF	✓														County has EAS "Nixie"
3.1.10		Maintain snow plowing and removal equipment. Maintain adequate supply of salt during icy weather.	Highway Dept. HMC, MODOT	Ongoing	NA	O	LF	✓	✓	✓		✓	✓									<i>delete</i>
3.1.11		Ensure that "Road Impassable" during high water signs are posted	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	✓					X									<i>delete</i>
3.1.12		Maintain Road and Bridge Equipment	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	✓				X										
3.1.13		Maintain a supply of extra culverts and materials for repairs for emergency use.	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	✓	X	X		X	X									
3.1.14		Maintain, map and update a list of low-lying roads and bridges that are in peril. Sheriff Dept. checks all low lying roads for problems.	HMC, Highway & Bridge Dept., Sheriff Dept., County 911	Ongoing	NA	O	LF	✓														<i>delete</i>

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Action Item #	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N--New R--Revision O--Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	Additional generators as funds become available	
3.1.15	Obtain portable generator to maintain communication infrastructure as funds become available.	HMC, Police Dept., Fire Dept.	1-2 yrs	NA	R	LF					X	√									Additional generators as funds become available <i>delete</i>	
3.1.16	Work with FEMA and Army Corp of Engineers to update Floodplain map as needed	HMC, City Government	1-5 yrs	NA	N	F-S- G LF			X			√										
3.1.17	Maintain and replace missing street signs	911 Street Dept	Ongoing	NA	O	LF	X	√			X	X	X									<i>delete</i>
3.1.18	Training and certification of Emergency Management Director	EMD, SEMA, HMC	1-5 yrs	NA	N	F-S- G LF	X	√	X		X	√										<i>delete</i>
3.1.19	Partnership with NECAC for distribution of fans as needed.	HMC, NECAC, churches	Ongoing	NA	O	LF			√		X	√										<i>delete</i>
3.1.20	Have a plan in place for local snow removal as needed in addition to snow removal provided by county on county roads.	HMC	Ongoing	NA	O	LF		X			√	X										<i>delete</i>
3.1.21	Investigate possibility of obtaining chain saws for tree limb trimming and debris clean-up as funds become available.	HMC	1-2 yrs	NA	..	LF																<i>delete</i>

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

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3.1.22		Utilities are being placed underground in the business districts and new subdivisions	MMU (Macon Municipal Utilities), HMC	Ongoing	NA	R	LF						✓									All residential areas
3.1.23		Water meters are being replaced with electronic read devices to eliminate meter breakages and possible water main breakage or damage.	MMU, HMC	2 yrs	NA	R	LF					X	✓									Completed- Macon Working-LaPlata
3.1.24		Maintain capability to generate city's electricity as needed.	HMC, MMU	Ongoing	NA	O	LF					X	✓									<i>delete</i>
3.1.25		Develop list of services, contacts for incoming helpers.	HMC, EMD	6 mo	NA	O	LF					X	✓									<i>delete</i>
3.1.26		Existing plan in place to have Macon Lake as the back-up water supply for the City of Macon.	MMU	Ongoing	NA	O	LF						✓									<i>delete</i>
3.1.27		Investigate possibility of obtaining back-up generator (s) for the Water Treatment and Waste Water Treatment Plants as funds become available.	HMC, MMU	2-5 yrs	NA	O	LF					X	✓									Completed

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 2** Encourage private involvement in mitigation activities.

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3.2.1	NEW		HMC, USDA, media, University Outreach	Ongoing	NA	N	LF	X													Encourage Drought resistant farming practices	
3.2.2	NEW		HMC, EMD, Health Dept.	6 months -1 year	NA	N	LF	X					X								Set up a schedule to publish timely articles in the local papers on safety during natural hazards throughout the year	

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 3** Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

Action Item #	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
3.3.1	In Macon County only cities of Macon and Elmer, participate in the NFIP. Macon County and the cities of Macon and Elmer will continue to comply and implement the NFIP requirements and to reduce the flood risks associated with the Flood Hazard Areas	HMC, Highway and Bridge Dept., Floodplain Managers	Ongoing	E N	R	F-S- G LF			X			✓									Elmer no longer participates in NFIP
3.3.2	Burning Bans issued by County Commission as needed	HMC, County Comm.	Ongoing	E	R	LF	✓	✓	✓	✓	✓	✓	✓								Also Fire Depts can issue
3.3.3	Update and maintain the fire suppression emergency plan with the Macon Rural Fire Dept, LEPC, and Northeast Missouri Grain Processors Ethanol Plant	HMC, LEPC, Macon Rural Fire Dept., NEMO Grain Processors Ethanol Plant	6 mo - 1 year	E	O	LF	✓														
3.3.4	Enforce Floodplain Ordinance to ensure that no building is built in the floodplain zones.	HMC, floodplain Manager	Ongoing	E N	O	LF		X			X										
3.3.5	Establish an Emergency Management Director position for the city	HMC, City Government	1 yr	NA	O	LF		✓	X		X										
3.3.6	Emergency snow routes are designated by city ordinance.	HMC, City Government	Ongoing	E N	O	LF						✓									

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 3** Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

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3.3.7		Enforcement of current building codes, BOGA	HMC, city government	Ongoing	E N	R	LF					X	✓								IIBC <i>delete</i>
3.3.8		Review of storm water drainage system and capital improvement plan to upgrade water drainage as needed.	HMC, city government, MMU	1-5 yrs	E N	O	F-S- G LF	X				X	✓								<i>complete</i>
3.3.9		Established EOC (Emergency Operations Center) at the Fire/ Police Departments.	HMC, Fire Dept., Police Dept.	2-5 yrs	E N	N	F-S- G LF	X	X	X		X	✓								Complete <i>delete</i>

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City of Macon

**Five Year Matrix**

**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 1** Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.

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1.1.1		Have educational brochures on what to do during a natural disaster available to schools and citizens	HMC, EMD, Health Dept, Fire Depts., local media	Ongoing	NA	O LF	✓	✓	✓	✓	✓	✓	✓							Articles in newspapers, county website, social networks, facebook, twitter. Link all official website in the county. Newcomer package. Available at campgrounds
1.1.2		Have informational brochures on retrofitting windows available to distribute to Schools, Day Cares, and Nursing Homes.	HMC, EMD	6 mo-1yr	E	O LF						✓								Also City Hall and Chamber office
																				Delete
																				Delete

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**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 2** Publicize appropriate mitigation measures for future potential natural hazards.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures**	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
1.2.1		Have educational brochures on what to do during extreme heat conditions and distribute to nursing homes, childcare centers, schools.	HMC, EMD, Health Dept, local media, nursing homes, child care center, schools	Ongoing	NA	O	LF	✓	X	X		X									Articles in newspapers, county website, social networks, facebook, twitter. Link all official website in the county. County Fair will give out information	
1.2.2		Encourage Drought resistant yard watering practices. City has ordinance regulating water usage.	HMC, City Government	Ongoing	NA	O	LF	✓						X								
1.2.3		<del>Work with local cable TV company to post severe natural hazards announcements on Facebook.</del>	HMC, Fire Dept., Police Companies	1 yr	NA	R	LF	✓				✓	✓									Delete County now has EAS "Nixte" Modify Sign-up information is on county website
1.2.4		Have educational brochures on what to do during a natural disaster available to the public at the police station, fire station, and city hall. Articles published in local newspaper.	HMC, EMD, Fire Dept., media	6 mo-1yr	NA	O	LF					X	✓									Modify
1.2.5		Distribute Design Construction Awareness Brochures with Building permits.	HMC, city government	Ongoing	N	O	LF						✓									Delete

\*\*Priority from STAPLEE analysis  
HMC—Hazard Mitigation Committee EMD—Emergency Management Director \*\*\*\* LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable  
E—Existing N—New  
EOC—Emergency Operations Center MODOT—Missouri Dept. of Trans

**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 3** Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.

Action Item #	Priority #	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
1.3.1		Promote use of NOAA radios in businesses, private homes, and large gatherings	HMC	Ongoing	NA	R	LF	✓	✓	✓	✓	✓	✓	✓							websites, Facebook, Utility bills websites encourages purchase of NOAA radios; notice on utility bills Modify
1.3.2		Have speaker available to conduct programs on earthquake safety and severe weather safety.	HMC	1-2 yrs	E N	O	LF	X	✓			X	✓		X	X	X	X	X	X	Delete

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 \*\*\* E—Existing    N—New    \*\*\*\* LF—Local Funding    F—S—G Federal / State Grants    N/A Not Applicable



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

**Objective 1** Build and support local partnerships to lessen the effects of natural hazards.

Priority #	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
2.1.1	Co-op to remove trees from power line easements in addition to current trimming program	HMC, Macon Rural Electric Cooper	Ongoing	NA	O	F-S-G	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	Macon Municipal Utilities trims trees in Macon. LaPlata does tree trimming in LaPlata <i>Delete</i>
2.1.2	Ensure that county school buses are outfitted with two-way communication	HMC, Schools, Health Dept.	Ongoing	NA	O	F-S-G	✓	✓			✓									
2.1.3	Partnership with NECAC for distribution of fans as needed.	HMC, NECAC, Health Dept.	6 months	NA	O	LF					✓	✓	X							<i>Delete</i>
2.1.4	Obtain sufficient back-up generators for designated shelters as funds become available. <i>and utility office fully staffed</i>	HMC, EMD	Ongoing	NA	O	LF	✓	X	✓	✓	✓	✓	✓							"after the event" <i>Keep - Modify</i>
2.1.5	Maintain Mutual Aid Agreements and update on regular schedule <i>update</i>	Law enforcement, Emergency OP EMD, Fire Dept. Utility Depts	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓							<i>Modify</i>
2.1.6	Encourage schools to conduct programs on earthquake safety.	HMC, EMD	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓	<i>Delete</i>
2.1.7	Spot check of elderly and special needs individuals.	HMC, Fire Dept., churches	Ongoing	NA	R	LF	✓	✓	X	X										Co-op with Health Dept. <i>Delete</i>

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

**Objective 2** Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities.

Action Item #	Priority #	Action Item and Strategy	Coordinating Organization	Time Line	Structures **	N—New R—Revision O—Ongoing	Funding****	Macon County	Beverly	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Beverly C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
2.2.1		Conduct regularly scheduled training for weather spotters	HMC, EMD, Weather Bureau, Fire Depts.	Ongoing	NA	R	F-S G LF	✓	✓	✓	✓	✓	✓								Training annually and advertise new classes <i>Delete</i>
2.2.2		Maintain a list of special needs individuals.	HMC, Highway and Bridge Dept., Health Dept.	Ongoing	NA	R	LF	✓	X					X							Neighbors check on neighbors
2.2.3		Participate in regularly scheduled Table-top exercises and mock emergency exercises.	Law enforcement, Emergency OP personnel, EMD, Fire Dept.	Ongoing	NA	R	F-S G LF	✓	✓	X		✓	✓								LEPC and hospital drills also annually <i>Delete</i>
2.2.4		Investigate the possibility of obtaining a warning siren as funds become available.	HMC, City Government	1-5 yrs	NA	R	F-S G LF			✓	✓	X		✓							<i>Delete</i>
2.2.5		Maintain and testing on regular schedule of the current warning siren system and upgrade as needed <del>of</del> funds become available.	HMC, EMD, Fire Dept., 911	Ongoing	NA	R	F-S G LF	X	X			✓	✓								<i>Delete</i> 3 additional sirens added in Macon <i>keep in Progress</i>
2.2.6		Implement bi-annual Weather Spotter training	HMC, EMD, Fire Dept.	1 yr	NA	R	F-S G LF						✓								<i>Delete</i>

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LF—Local Funding  
F-S-G—Federal / State Grants  
N/A—Not Applicable  
MODOT—Missouri Dept. of Trans

**Goal 2** Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.  
**Objective 3** Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.

Action Item #	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
2.3.1	Maintain and clean culverts and storm water drainage system on a regular schedule.	HMC, Highway & Bridge Dept, Street Dept.	Ongoing	E	O	LF	✓	X	X	✓	X	X								Delete
2.3.2	Encourage Drought resistant farming practices	HMC, USDA, media, University Outreach	Ongoing	NA	O	LF	✓													
2.3.3	Encourage Landowners to inspect and maintain their dams according to Dept. of Natural Resources standards.	HMC, MO Dept. of Natural Resources	Ongoing	E	O	LF	✓													
2.3.4	Work with Army Corps of Engineers on Dam Safety at Long Branch Lake. <i>se watershed compliance</i>	HMC, Army Corps of Engineers	Ongoing	NA	O	LF						X								Modify
2.3.5	Regularly scheduled clean up of Sulfur Creek to mitigate flash flooding	HMC, Street Dept.	Ongoing	E	O	LF														Delete—not in city
2.3.6	Plan for debris removal in place and a designated location for debris is established. <i>investigate</i>	HMC, Street Dept.	Ongoing	E	O	LF	X	X			X	X								Modify
2.3.7	Engineering study currently in place for drainage patterns.	HMC, MMU	Ongoing	E N	R	F-S G LF					X	✓								Macon finished phase 3, currently working on phase 4. LaPlata applying for grant to upgrade waste water system <del>Delete</del>

\*\*\*\* LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable  
 \*\*\* E—Existing N—New EOC—Emergency Operations Center MODOT—Missouri Dept. of Trans  
 \*\* Priority from STAPLEE analysis EMD—Emergency Management Director

**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
3.1.1		Conduct a study on all "at peril" roads and bridges. Make a plan to upgrade the "at peril" roads and bridges as funds become available.	HMC, Highway and Bridge Dept.	1-5 yrs	E	R	F-S- G LF	✓													County has made significant improvements on bridges and roads to mitigate flooding.
3.1.2		Establish cooling center at shelter <i>integrate funding as available</i>	HMC, EMD	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓								Macon Public Library
3.1.3		Evaluate and upgrade as needed the current emergency response communication infrastructure	HMC, 911, Police, Fire, Sheriff, Ambulance	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓								keep In-Progress
3.1.4		Maintain transportation infrastructure	Highway Dept. MODOT	Ongoing	NA	O	F-S- G LF	✓	X	X	✓	✓	✓								keep In-Progress
3.1.5		Update Emergency Operating Plan on a regular schedule.	Law enforcement, Emergency OP personnel, EMD, Fire Dept.	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X		keep In-Progress
3.1.6		Study of current warning siren system and upgrade as needed as funds become available.	HMC, Fire Dept.	1-2 yrs	NA	R	F-S- G LF		X												Delete Siren obtained in 2008 Delete - duplicate
3.1.7		Review the storm water drainage system and upgrade as needed and as funds become available	HMC, Utility Dept.	3-5 yrs	NA	R	F-S- G LF	X	✓			✓									LaPlata applying for grant to upgrade waste water system keep In progress

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3.1.8	Update and maintain list of buildings that are designated as shelters, distribute list	HMC, EMD, law enforcement	Ongoing	NA	R	F-S- G LF	✓	✓	✓	✓	✓	✓	✓								"After the event" Delete - duplicate
3.1.9	Macon County 911 has direct notification of severe weather alerts to schools, nursing homes, hospitals, and Fire departments.	HMC, 911	Ongoing	NA	R	LF	✓														County has EAS "Nixie"
3.1.10	Maintain snow plowing and removal equipment. Maintain adequate supply of salt during icy weather.	Highway Dept. HMC, MODOT	Ongoing	NA	O	LF	✓	✓	✓		✓	✓									Delete - normal operations
3.1.11	Ensure that "Road Impassable" during high water signs are posted	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	✓					X									Delete - normal operations
3.1.12	Maintain Road and Bridge Equipment	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	✓					X									Delete - normal operations
3.1.13	Maintain a supply of extra culverts and materials for repairs for emergency use.	HMC, Highway and Bridge Dept.	Ongoing	NA	O	LF	✓	X	X			X									Delete - normal operations
3.1.14	Maintain, map and update a list of low-lying roads and bridges that are in peril. Sheriff Dept. checks all low lying roads for problems.	HMC, Highway & Bridge Dept., Sheriff Dept., County 911	Ongoing	NA	O	LF	✓														Delete - normal operations

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**Objective 1** Incorporate mitigation procedures and planning into the community.

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3.1.15		Obtain portable generator to maintain communication infrastructure as funds become available.	HMC, Police Dept., Fire Dept.	1-2 yrs	NA	R	LF					X	√								Additional generators as funds become available Keep-In Progress	
3.1.16		Work with FEMA and Army Corp. of Engineers to update Floodplain map as needed	HMC, City Government	1-5 yrs	NA	N	F-S- G LF			X			√									Keep In Progress
3.1.17		Maintain and replace missing street signs	911 Street Dept	Ongoing	NA	O	LF	X	√			X	X									Keep In Progress
3.1.18		Training and certification of Emergency Management Director	EMD, SEMA, HMC	1-5 yrs	NA	N	F-S- G LF	X	√	X		X	√									Delete - normal operations
3.1.19		Partnership with NECAC for distribution of fans as needed.	HMC, NECAC, churches	Ongoing	NA	O	LF			√		X	√									Delete - County
3.1.20		Have a plan in place for local snow removal as needed in addition to snow removal provided by county on county roads.	HMC	Ongoing	NA	O	LF		X			√	X									Delete - sec 2.1.3
3.1.21		Investigate possibility of obtaining chain saws for tree limb trimming and debris clean-up as funds become available.	HMC	1-2 yrs	NA	-	LF															Delete - normal operations

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

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3.1.22		Identify areas where utilities can be placed underground in the business districts and new subdivisions to reduce safety concerns during emergencies. MMU (Macon Municipal Utilities).	MMU	Ongoing	NA	R	LF					✓									All residential areas. Modify
3.1.23		Water meters are being replaced with electronic read devices to eliminate meter breakages and possible water main breakage or damage. MMU, HMC	MMU, HMC	2 yrs	NA	R	LF					✓									Completed- Macon Working-LaPlata Delete (see below)
3.1.24		Maintain capability to generate city's electricity as needed. HMC, MMU	HMC, MMU	Ongoing	NA	O	LF					✓									keep
3.1.25		Develop list of services, contacts for incoming helpers. HMC, EMD	HMC, EMD	6 mo	NA	O	LF					✓									Delete
3.1.26		Maintain Existing plan in place to have Macon Lake as the back-up water supply for the City of Macon. MMU	MMU	Ongoing	NA	O	LF					✓									keep - in progress
3.1.27		Investigate possibility of obtaining back-up generator (s) for the Water Treatment and Wastewater Treatment Plants as funds become available. HMC, MMU Replace utility meters (electric, water, gas) with Advanced Meter Infrastructure (AMI) to reduce response time to losses associated with emergencies. *** E—Existing N—New	HMC, MMU	2-5 yrs	NA	O	LF					✓									Completed keep in progress

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 2.** Encourage private involvement in mitigation activities.

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3.2.1	NEW		HMC, USDA, media, University Outreach	Ongoing	NA	N	LF	X													Encourage Drought resistant farming practices	
3.2.2	NEW		HMC, EMD, Health Dept.	6 months -1 year	NA	N	LF	X					X								Set up a schedule to publish timely articles in the local papers on safety during natural hazards throughout the year <i>DECE</i>	

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 3** Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

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3.3.1		In Macon County only cities of Macon and Elmer, participate in the NFIP. Macon County and the cities of Macon and Elmer will continue to comply and implement the NFIP requirements and to reduce the flood risks associated with the Flood Hazard Areas	HMC, Highway and Bridge Dept., Floodplain Managers	Ongoing	E N	R	F-S- G LF			X			✓									Elmer no longer participates in NFIP <i>keep in progress</i> Also Fire Depts can issue <i>delete</i>
3.3.2		Burning Bans issued by County Commission as needed	HMC, County Comm.	Ongoing	E	R	LF	✓	✓	✓	✓	✓	✓									
3.3.3		Update and maintain the fire suppression emergency plan with the Macon Rural Fire Dept, LEPC, and Northeast Missouri Grain Processors Ethanol Plant	HMC, LEPC, Macon Rural Fire Dept., NEMO Grain Processors Ethanol Plant	6 mo - 1 year	E	O	LF	✓														
3.3.4		Enforce Floodplain Ordinance to ensure that no building is built in the floodplain zones.	HMC, floodplain Manager	Ongoing	E N	O	LF		X			X										<i>keep in progress</i>
3.3.5		Establish an Emergency Management Director position for the city	HMC, City Government	1 yr	NA	O	LF		✓	X			X									<i>keep not started</i>
3.3.6		Emergency snow routes are designated by city ordinance.	HMC, City Government	Ongoing	E N	O	LF						✓									<i>Delete - completed</i>

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**Objective 3** Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

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3.3.7		Enforcement of current building codes, <del>SEA</del>	HMC, city government	Ongoing	E N	R	LF		X			X								<del>1100</del> 2012 IBC Keep-Modify	
3.3.8		Review of storm water drainage system and capital improvement plan to upgrade water drainage as needed.	HMC, city government, MMU	1-5 yrs	E N	O	F-S- G LF	X				X									
3.3.9		Established EOC (Emergency Operations Center) at the Fire/ Police Departments.	HMC, EMD, Fire Dept., Police Dept.	2-5 yrs	E N	N	F-S- G LF	X	X	X		X								Complete Keep	
		Improve stormwater ways + investigate areas where roadways are affected and undermining structures are occurring.																			Add
		Maintain, make improvements to separate combined stormwater sewer system to include engineering + construction to improve upon the combined sewer overflow (CSO).																			Add

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 M/A Not Applicable  
 MODOT—Missouri Dept. of Trans


## MACON COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN



### MEETING #2 RISK ASSESSMENT SEPTEMBER 5, 2019

Project Planner: Deynn Campbell, Fiscal Officer/Community Planner  
Mark Twain Regional Council of Governments


1



### 9 TASKS TO COMPLETE THE PLAN UPDATE

- Task 1: Determine the Planning Area and Resources
- Task 2: Build the Planning Team
- Task 3: Conduct an Inventory/Assessment
- 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


4



### MEETING PURPOSE

- Brief Review
- Public Survey Update
- Discuss Participation Requirements/Status
- Plan Update Format
- Sample Results of Countywide Risk Assessment
- Update Mitigation Goals
- Discuss Mitigation Action Updates
- Next Steps


2



### PUBLIC SURVEY UPDATE


- Notify public: article in newspaper, announcements posted in public locations, posted on the Council of Governments website
- No Public Comment was received to date

5



### DISASTER MITIGATION ACT OF 2000

- Requires local governments to adopt a natural hazard mitigation plan to maintain eligibility for FEMA Hazard Mitigation Assistance funds
- This Plan Update is for a Multi-jurisdictional Hazard Mitigation Plan covering the Unincorporated County, participating Incorporated Cities, and Public School Districts



3



### REQUIREMENTS FOR EACH PARTICIPATING JURISDICTION

- Designate a representative to serve on the Hazard Mitigation Planning Committee, which will meet three times during the planning process,
- Provide data for and assist in the development of the updated risk assessment that describes how various hazards impact your jurisdiction,
- Provide data to describe current capabilities,
- Develop/update mitigation actions (at least one) specific to your jurisdiction,
- Provide comments on plan drafts as requested,
- Inform the public, local officials, and other interested parties about the planning process and provide opportunities for them to comment on the plan, and
- Formally adopt the mitigation plan.

6





## EXTREME TEMPERATURES

Extreme heat can cause stress to crops and animals. According to USDA Risk Management Agency, losses to insurable crops during the time period from 2008 to 2018 were \$8,211,022.37. Extreme heat can also strain electricity delivery infrastructure overloaded during peak use of air conditioning during extreme heat events. Another type of infrastructure damage from extreme heat is road damage. When asphalt is exposed to prolonged extreme heat, it can cause buckling of asphalt paved roads, driveways, and parking lots.

**Vulnerability Rating-Extreme Heat**

Legend:  
 High  
 Medium High  
 Medium  
 Low Medium  
 Low

**Vulnerability Rating-Extreme Cold**

Legend:  
 High  
 Medium High  
 Medium  
 Low Medium  
 Low

\*Macon County - Low-Medium

19

## SEVERE WINTER WEATHER

**Problem Statement**  
 Macon County is expected to experience at least one severe winter weather event annually. The county has a low-medium vulnerability rating. Jurisdictions should enhance their weather monitoring to be better prepared for severe weather hazards. If jurisdictions monitor winter weather, they can dispatch road crews to prepare for the hazard. County and city crews can also trim trees along power lines to minimize the potential for outages due to snow and ice. Citizens should also be educated about the benefits of being proactive to alleviate property damage as well as preparing for power outages. Education needs to occur to ensure all residents are aware of the shelters in the County residents are educated on emergency supplies to have and the utilization of social media and texting increases.

22

## EXTREME TEMPERATURES CONTINUED...


**Problem Statement**  
 Macon County has a growing population of residents over 65 years, who are at a greater risk for extreme-temperature related illnesses, injuries, and death. Possible solutions include organizing outreach to the vulnerable elderly populations, including establishing and promoting accessible heating or cooling centers in the community and creating a database in coordination with the Health Department to track those individuals at high risk.

20

## TORNADOES

Date	Location	Length (miles)	Width (yards)	F5 Rating	Death	Property Damage	Casualties
4/14/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/15/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/16/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/17/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/18/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/19/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/20/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/21/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/22/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/23/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/24/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/25/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/26/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/27/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/28/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/29/83	Wheeler	0.5	100	F1	0	\$100,000	0
4/30/83	Wheeler	0.5	100	F1	0	\$100,000	0
5/1/83	Wheeler	0.5	100	F1	0	\$100,000	0
5/2/83	Wheeler	0.5	100	F1	0	\$100,000	0
5/3/83	Wheeler	0.5	100	F1	0	\$100,000	0
5/4/83	Wheeler	0.5	100	F1	0	\$100,000	0
5/5/83	Wheeler	0.5	100	F1	0	\$100,000	0
5/6/83	Wheeler	0.5	100	F1	0	\$100,000	0
5/7/83	Wheeler	0.5	100	F1	0	\$100,000	0
5/8/83	Wheeler	0.5	100	F1	0	\$100,000	0
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6/1/83	Wheeler	0.5	100	F1	0	\$100,000	0
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6/30/83	Wheeler	0.5	100	F1	0	\$100,000	0
6/31/83	Wheeler	0.5	100	F1	0	\$100,000	0
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7/30/83	Wheeler	0.5	100	F1	0	\$100,000	0
7/31/83	Wheeler	0.5	100	F1	0	\$100,000	0
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8/28/83	Wheeler	0.5	100	F1	0	\$100,000	0
8/29/83	Wheeler	0.5	100	F1	0	\$100,000	0
8/30/83	Wheeler	0.5	1				





### MITIGATION STRATEGY: GOALS AND ACTIONS

- **Goals:** Describe the overall direction of the plan
- **Actions:** Describe specific activities or projects designed to achieve goals

31



### STATE GOALS 2018 MISSOURI STATE HAZARD MITIGATION PLAN


- **Goal 1:** Implement mitigation actions that improve the protection of human life, health, and safety from the adverse effects of disasters
- **Goal 2:** Implement mitigation actions that improve the continuity of government and essential services from the adverse effects of disasters
- **Goal 3:** Implement mitigation actions that improve the protection of public and private property from the adverse effects of disasters
- **Goal 4:** Implement mitigation actions that improve the protection of community tranquility from the adverse effects of disasters

34



### UPDATE COLLECTIVE GOALS

32



### MACON COUNTY 2015 PLAN GOALS (REVIEW/REVISE)

**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards. **Objective 1** Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future. **Objective 2** Publicize appropriate mitigation measures for future natural hazards. **Objective 3** Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.

**Goal 2** Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards. **Objective 1** Build and support local partnerships to lessen the effects of natural hazards. **Objective 2** Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities. **Objective 3** Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.

**Goal 3** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards, on the loss of life, on new and existing properties, on natural resources, on infrastructure, and on the local economy. **Objective 1** Incorporate mitigation procedures and planning into the community. **Objective 2** Encourage private involvement in mitigation activities. **Objective 3** Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.


35



### COMMON CATEGORIES OF MITIGATION GOALS

- Public Education
- Policies/Planning/Training/Communication
- Reduce Risk to Life and Property
- Protection of Critical/Essential Facilities

33



### GROUP DISCUSSIONS

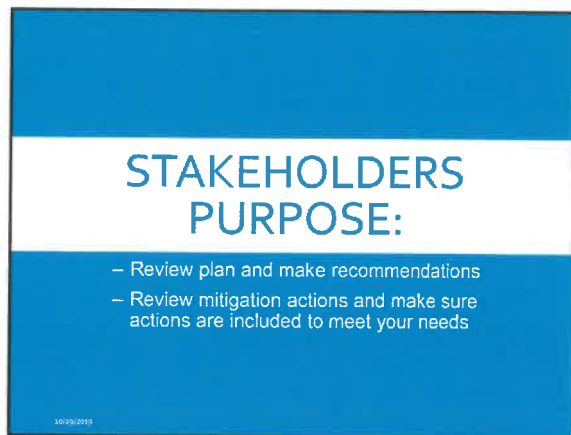
- Review goal statements (handout)
- Remember
  - Goals should be broad
  - Mitigation vs. Preparedness/Response
- Report to group with suggested revisions
  - Combine
  - Remove
  - Re-word
  - Add new

36

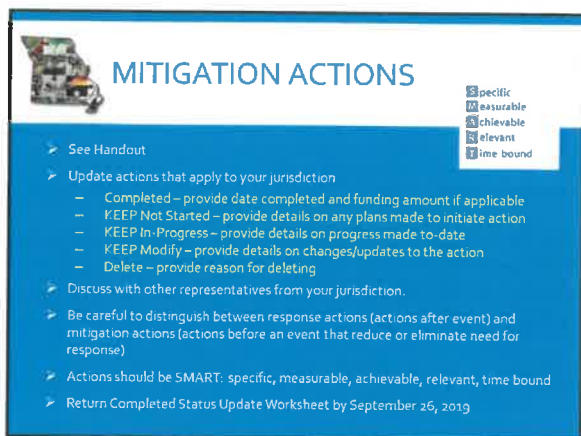




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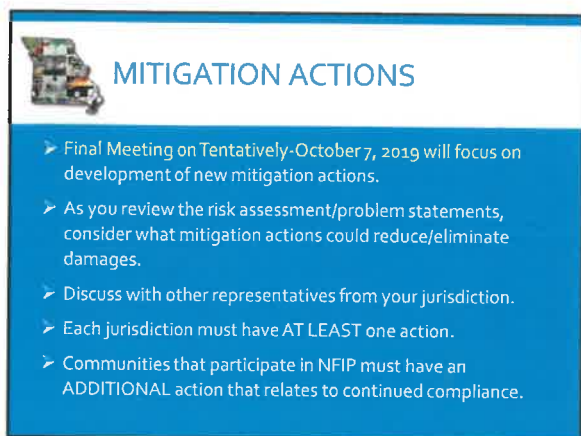
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38



41



39

Macon County  
Multi-Jurisdictional Hazard Mitigation Plan Update  
Planning Meeting #3  
October 7, 2019  
2:00 p.m.

## **Agenda**

Welcome/Introductions    Devyn Campbell, Fiscal Officer  
Mark Twain Regional Council of Governments

Review Purpose/Requirements

Updating the Mitigation Strategy  
    Review Updated Plan Goals  
    Status of Previous Actions  
    Development of New Actions  
    Prioritization of Mitigation Actions

Hazard Mitigation Assistance Grants

Plan Maintenance

Next Steps

To **Macon County Hazard Mitigation Planning Committee**  
 From **Cindy Hultz, Executive Director**  
**Mark Twain Regional Council of Governments**  
 Tel / E-mail **573-565-2203 / hultz:cog@rallstech.com**  
 Date **October 8, 2019**  
 Subject **Minutes from Macon County Hazard Mitigation Planning Meeting #3 held on October 7, 2019**

This document is a record of attendance and a summary of the issues discussed during the above meeting, including: a brief review of the purpose of a Hazard Mitigation Plan, the public survey results, updating the mitigation strategy, Hazard Mitigation Assistance grants, plan maintenance and the next steps in this process.

## Attendees

Name	Title	Jurisdiction
Denise Case	City Clerk	City of Atlanta
Bruce Weimer	Middle School Principal	Macon R-I School
Josh Brummit	Principal	Atlanta C-3 School
Tasia West	Teacher	Atlanta C-3 School
Sue Goulder	Director	Macon Co. Econ. Development
Chad Sawyer	Board Member	La Plata Special Road District
Kevin Myers	Code Enforcement	City of Macon
Trinette Peukut	City Clerk	City of Bevier
Ross Dutton	Fire Chief	City of Macon
Avis Marshall	City Administrator	City of Macon
Clarence Walker	Commissioner	Macon County
Daniel Liebhart	Principal	Macon County R-IV School
Kevin Souther	Commissioner	Macon County
Alan Wyatt	Presiding Commissioner	Macon County
Shari Dye	Macon County EMD	Macon County
Cindy Hultz	Executive Director	Mark Twain COG
Devyn Campbell	Fiscal Officer	Mark Twain COG

## Review Purpose/Participation Status

Cindy Hultz, Executive Director, with Mark Twain Regional Council of Governments provided a brief summary of the purpose of the Hazard Mitigation Plan and the Disaster Mitigation Act of 2000 that codified the requirement of local governments to adopt a hazard mitigation plan to maintain eligibility for FEMA Hazard Mitigation Assistance Grants. The nine-task planning process was summarized and participants were informed that at the conclusion of the meeting, the planning committee will have completed Tasks 1-5 as well as portions of Task 6.

A review of the requirements for jurisdictions to officially participate in the Multi-jurisdictional Hazard Mitigation Plan was provided.

## Public Comment Results

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To date there has been no comment received back from the public.

## Previous Actions

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Handouts were provided to each jurisdiction listing all actions submitted in the previous Hazard Mitigation Plan. The action handouts included the updated action status that was provided for all previous actions by each jurisdiction after meeting #2.

The MS Excel spreadsheet was discussed that has been created including details for each jurisdiction's previous actions. This spreadsheet includes cells to capture the information on the Mitigation Action Plan worksheet. For Continuing and New actions, jurisdictions have their choice of either completing the action plan details on the spreadsheet OR completing an action plan worksheet for each action

## Mitigation Strategy

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To determine any new actions that should be added to the mitigation strategy update, the following information was reviewed:

- Plan Goals
- Problem Statements for each hazard
- Previously Identified actions for each hazard
- FEMA's Mitigation Ideas booklet
- Public Opinion from Surveys

Meeting participants were reminded that each jurisdiction must submit at least one action for participation in the plan. Communities participating in the National Flood Insurance Program must also have an action addressing continued compliance.

## STAPLEE Worksheet

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For each Continuing and New action to be included in the plan, the responsible jurisdiction must complete the STAPLEE Worksheet and record the results on either the spreadsheet OR action plan worksheet. The STAPLEE worksheet provides a framework to determine the general effectiveness in accomplishing the goals of life safety and/or reduction or prevention of damage from a hazard event. This method analyzes the Social, Technical, Administrative, Political, Legal, Economic and Environmental aspects of a project and is commonly used by public administration officials and planners for making planning decisions.

**The due date for completion and return of the spreadsheet OR worksheets for all Continuing and New actions is October 23, 2019.**

## Hazard Mitigation Assistance Grants

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The Hazard Mitigation Plan is a requirement for jurisdictions to be eligible to apply for FEMA's Hazard Mitigation Assistance Grants. Jurisdictions were informed that the Missouri State Emergency Management Agency is the State agency responsible for administration of these grants. If jurisdictions are considering applying for hazard mitigation assistance funding, they were instructed to contact the State Hazard Mitigation Officer, Elizabeth Weyrauch, at 573-526-9375 to obtain additional details regarding the various grant programs, the application process, and current available funds.

THE HMPC was also given a sample list of state and federal grants that fund mitigation activities.

## Plan Maintenance

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The requirements for the plan to provide a formal plan maintenance process were discussed. This is required to ensure that the mitigation plan remains an active and relevant document. After discussion, the following plan maintenance process was agreed to by group consensus:

- The HMPC will meet annually to review the Hazard Mitigation Plan. At the Emergency Management Director's discretion, the HMPC may also meet to review the plan after significant hazard events;
- Macon County EMD will organize the meetings.
- Macon County EMD will coordinate the update/re-submittal to SEMA and FEMA every 5 years;
- Individual Representatives on the HMPC will integrate mitigation strategy, to the extent practicable, during the process to update other jurisdictional plans such as Comprehensive Plans, Capital Improvement Plans, Infrastructure Plans, and School Emergency Plans;
- After the annual review, the Macon County EMD will forward the Mitigation Strategy with status updates to mayors, city clerks, and school superintendents for consideration in other planning mechanisms/discussions; and
- The public will be involved in the plan maintenance process by publication of a Press Release indicating the team has met with a summary of mitigation action status updates and highlights of specific completed mitigation actions.

## Next Steps

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The meeting concluded with a discussion of the remaining steps to complete the planning process as follows:

- October 23 ,2019- Action Forms Due
- November 2019- Jurisdictions Adopt Plan
- November 1 – November 15, 2019- Committee Comment
- November 16 – November 29, 2019- Final Public Comment Period
- December 1, 2019- Submit Plan to SEMA
- February 2020- Submit Plan to FEMA
- March 2020- Anticipate FEMA's Approval

## Eligible Activities

Eligible Activities	HMGP	PDM	FMA
<b>1. Mitigation Projects</b>	X	X	X
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	
Localized Flood Reduction Projects	X	X	X
Non-localized Flood Risk Reduction Projects	X	X	
Structural Retrofitting of Existing Buildings	X	X	X
Non-structural Retrofitting of Existing Buildings and Facilities	X	X	X
Safe Room Construction	X	X	
Wind Retrofit for One- and Two-Family Residences	X	X	
Infrastructure Retrofit	X	X	X
Soil Stabilization	X	X	X
Wildfire Mitigation	X	X	
Post-Disaster Code Enforcement	X		
Advance Assistance	X		
5 Percent Initiative Projects	X		
Miscellaneous/Other <sup>(1)</sup>	X	X	X
<b>2. Hazard Mitigation Planning</b>	X	X	X
Planning Related Activities	X		
<b>3. Technical Assistance</b>			X
<b>4. Management Costs</b>	X	X	X

## Five Year Matrix

**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.  
**Objective 1** Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
1.1.1		Have educational brochures on what to do during a natural disaster available to schools and citizens	HMC, EMD, Health Dept, Fire Depts., local media	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓							Articles in newspapers, county website, social networks, facebook, twitter. Link all official website in the county. Newcomer package. Available at campgrounds	
1.1.2		Have informational brochures on retrofitting windows available to distribute to Schools, Day Cares, and Nursing Homes.	HMC, EMD	6 mo-1yr	E	O	LF						✓								Also City Hall and Chamber office	

\*\*Priority from STAPLEE analysis  
HMC—Hazard Mitigation Committee  
\*\*\*E—Existing N—New  
EMD—Emergency Management Director  
\*\*\*\*LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable  
EOC—Emergency Operations Center MODOT—Missouri Dept. of Trans

**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 2** Publicize appropriate mitigation measures for future potential natural hazards.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
1.2.1		Have educational brochures on what to do during extreme heat conditions and distribute to nursing homes, childcare centers, schools.	HMC, EMD, Health Dept, local media, nursing homes, child care center, schools	Ongoing	NA	O	LF	✓	X	X		X									Articles in newspapers, county website, social networks, facebook, twitter. Link all official website in the county. County Fair will give out information	
1.2.2		Encourage Drought resistant yard watering practices. City has ordinance regulating water usage.	HMC, City Government	Ongoing	NA	O	LF	✓						X								
1.2.3		Work with local cable TV company to post severe natural hazards announcements.	HMC, Fire Dept., Police Dept., Cable Companies	1 yr	NA	R	LF	✓				✓	✓									Delete County now has EAS "Nixie" Sin-up information is on county website
1.2.4		Have educational brochures on what to do during a natural disaster available to the public at the police station, fire station, and city hall. Articles published in local newspaper.	HMC, EMD, Fire Dept., media	6 mo-1yr	NA	O	LF					X	✓									
1.2.5		Distribute Design Construction Awareness Brochures with Building permits.	HMC, city government	Ongoing	N	O	LF						✓									

\*\*Priority from STAPLEE analysis  
 HMC—Hazard Mitigation Committee  
 EMD—Emergency Management Director  
 EOC—Emergency Operations Center  
 MODOT—Missouri Dept. of Trans  
 N/A Not Applicable



**Goal 1** Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards.

**Objective 3** Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	websites encourages purchase of NOAA radios, notice on utility bills
1.3.1		Promote use of NOAA radios in businesses, private homes, and large gatherings	HMC	Ongoing	NA	R	LF	✓	✓	✓	✓	✓	✓	✓								
1.3.2		Have speaker available to conduct programs on earthquake safety and severe weather safety.	HMC	1-2 yrs	E N	O	LF	X	✓			X	✓		X	X	X	X	X	X		

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HMC—Hazard Mitigation Committee EMD—Emergency Management Director EOC—Emergency Operations Center MODOT—Missouri Dept. of Trans  
\*\*\* E—Existing N—New \*\*\*\* LF—Local Funding F-S-G Federal / State Grants N/A Not Applicable

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

**Objective 1** Build and support local partnerships to lessen the effects of natural hazards.

Action Item #	Priority #	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N--New R--Revision O--Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
2.1.1		Co-op to remove trees from power line easements in addition to current trimming program	HMC, Macon Rural Electric Cooper	Ongoing	NA	O	F-S-G	✓	✓	✓	✓	✓	✓	✓								Macon Municipal Utilities trims trees in Macon. LaPlata does tree trimming in LaPlata
2.1.2		Ensure that county school buses are outfitted with two -way communication	HMC, Schools, Health Dept.	Ongoing	NA	O	F-S-G	✓	✓			✓		X	X	X	X	X	X	X		
2.1.3		Partnership with NECAC for distribution of fans as needed.	HMC, NECAC, Health Dept.	6 months	NA	O	LF					✓	✓	X								
2.1.4		Obtain sufficient back-up generators for designated shelters as funds become available.	HMC, EMD	Ongoing	NA	O	LF	✓	X	✓	✓	✓	✓	✓								"after the event"
2.1.5		Maintain Mutual Aid Agreements and update on regular schedule	Law enforcement, Emergency OP EMD, Fire Dept. Utility Depts	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	✓								
2.1.6		Encourage schools to conduct programs on earthquake safety.	HMC, EMD	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	X	✓	✓	✓	✓	✓	✓		
2.1.7		Spot check of elderly and special needs individuals.	HMC, Fire Dept., churches	Ongoing	NA	R	LF	✓		X												Co-op with Health Dept.

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 \*\*\*E--Existing N--New  
 EOC--Emergency Operations Center MODOT--Missouri Dept. of Trans

**Goal 2**  
hazards.

Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards.

**Objective 2** Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	Laplata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	Laplata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
2.2.1		Conduct regularly scheduled training for weather spotters	HMC, EMD, Weather Bureau, Fire Depts.	Ongoing	NA	R	F-S- G LF	✓	✓	✓	✓	✓	✓								Training annually and advertise new classes
2.2.2		Maintain a list of special needs individuals.	HMC, Highway and Bridge Dept., Health Dept.	Ongoing	NA	R	LF	✓	X					X							Neighbors check on neighbors
2.2.3		Participate in regularly scheduled Table-top exercises and mock emergency exercises.	Law enforcement, Emergency OP personnel, EMD, Fire Dept.	Ongoing	NA	R	F-S- G LF	✓	✓	X		✓	✓								LEPC and hospital drills also annually
2.2.4		Investigate the possibility of obtaining a warning siren as funds become available.	HMC, City Government	1-5 yrs	NA	R	F-S- G LF		✓	✓	X		✓								
2.2.5		Maintain and testing on regular schedule of the current warning siren system and upgrade as needed and funds become available.	HMC, EMD, Fire Dept., 911	Ongoing	NA	R	F-S- G LF	X	X			✓	✓								3 additional sirens added in Macon
2.2.6		Implement bi-annual Weather Spotter training	HMC, EMD, Fire Dept.	1 yr	NA	R	F-S- G LF						✓								annual

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\*\*\* E—Existing N—New  
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EOC—Emergency Operations Center MODOT—Missouri Dept. of Trans

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

**Objective 3** Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N--New R--Revision O--Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
2.3.1		Maintain and clean culverts and storm water drainage system on a regular schedule.	HMC, Highway & Bridge Dept. Street Dept.	Ongoing	E	O	LF	✓	X	X	✓	X										
2.3.2		Encourage Drought resistant farming practices	HMC, USDA, media, University Outreach	Ongoing	NA	O	LF	✓														
2.3.3		Encourage Landowners to inspect and maintain their dams according to Dept. of Natural Resources standards.	HMC, MO Dept. of Natural Resources	Ongoing	E	O	LF	✓														
2.3.4		Work with Army Corps of Engineers on Dam Safety at Long Branch Lake.	HMC, Army Corps of Engineers	Ongoing	NA	O	LF						X									
2.3.5		Regularly scheduled clean up of Sulfur Creek to mitigate flash flooding	HMC, Street Dept.	Ongoing	E	O	LF														Delete---not in city	
2.3.6		Plan for debris removal is in place and a designated location for debris is established.	HMC, Street Dept.	Ongoing	E	O	LF		X	X												
2.3.7		Engineering study currently in place for drainage patterns.	HMC, MMU	Ongoing	E N	R	F-S- G LF						X	✓								Macon finished phase 3, currently working on phase 4. LaPlata applying for grant to upgrade waste water system

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EMD---Emergency Management Director    EOC---Emergency Operations Center    MODOT---Missouri Dept. of Trans

**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Action Item #	Priority**	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-1 SD	Macon R-IV SD	Five Year Update Revision	
3.1.1		Conduct a study on all "at peril" roads and bridges. Make a plan to upgrade the "at peril" roads and bridges as funds become available.	HMC, Highway and Bridge Dept.	1-5 yrs	E	R	F-S- G LF	✓													County has made significant improvements on bridges and roads to mitigate flooding.	
3.1.2		Establish cooling center at shelter	HMC, EMD	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓									
3.1.3		Evaluate and upgrade as needed the current emergency response communication infrastructure	HMC, 911, Police, Fire, Sheriff, Ambulance	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓									
3.1.4		Maintain transportation infrastructure	Highway Dept. MODOT	Ongoing	NA	O	F-S- G LF	✓	X	X	✓	✓	✓									
3.1.5		Update Emergency Operating Plan on a regular schedule.	Law enforcement, Emergency OP personnel, EMD, Fire Dept.	Ongoing	NA	O	LF	✓	✓	✓	✓	✓	✓	X	X	X	X	X	X	X		
3.1.6		Study of current warning siren system and upgrade as needed and funds become available.	HMC, Fire Dept.	1-2 yrs	NA	R	F-S- G LF			X											Siren obtained in 2008	
3.1.7		Review the storm water drainage system and upgrade as needed and as funds become available	HMC, Utility Dept.	3-5 yrs	NA	R	F-S- G LF	X	✓												LaPlata applying for grant to upgrade waste water system	

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 1** Incorporate mitigation procedures and planning into the community.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N--New R--Revision O--Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
3.1.22		Utilities are being placed underground in the business districts and new subdivisions	MMU (Macon Municipal Utilities), HMC	Ongoing	NA	R	LF					✓									All residential areas	
3.1.23		Water meters are being replaced with electronic read devices to eliminate meter breakages and possible water main breakage or damage.	MMU, HMC	2 yrs	NA	R	LF					X	✓								Completed- Macon Working-LaPlata	
3.1.24		Maintain capability to generate city's electricity as needed.	HMC, MMU	Ongoing	NA	O	LF					X	✓									
3.1.25		Develop list of services, contacts for incoming helpers.	HMC, EMD	6 mo	NA	O	LF					X	✓									
3.1.26		Existing plan in place to have Macon Lake as the back-up water supply for the City of Macon.	MMU	Ongoing	NA	O	LF						✓									
3.1.27		Investigate possibility of obtaining back-up generator (s) for the Water Treatment and Waste Water Treatment Plants as funds become available.	HMC, MMU	2-5 yrs	NA	O	LF					X	✓									Completed

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 2** Encourage private involvement in mitigation activities.

Priority# Action Item #	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N--New R--Revision O--Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
3.2.1	NEW	HMC, USDA, media, University Outreach	Ongoing	NA	N	LF	X													Encourage Drought resistant farming practices
3.2.2	NEW	HMC, EMD, Health Dept.	6 months -1 year	NA	N	LF	X					X								Set up a schedule to publish timely articles in the local papers on safety during natural hazards throughout the year

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

**Objective 3** Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

Action Item #	Priority*	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N—New R—Revision O—Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision	
3.3.1		In Macon County only cities of Macon and Elmer, participate in the NFIP. Macon County and the cities of Macon and Elmer will continue to comply and implement the NFIP requirements and to reduce the flood risks associated with the Flood Hazard Areas	HMC, Highway and Bridge Dept., Floodplain Managers	Ongoing	E N	R	F-S- G LF	✓		X			✓									Elmer no longer participates in NFIP
3.3.2		Burning Bans issued by County Commission as needed	HMC, County Comm.	Ongoing	E	R	LF	✓	✓	✓	✓	✓	✓									Also Fire Depts can issue
3.3.3		Update and maintain the fire suppression emergency plan with the Macon Rural Fire Dept, LEPC, and Northeast Missouri Grain Processors Ethanol Plant	HMC, LEPC, Macon Rural Fire Dept., NEMO Grain Processors Ethanol Plant	6 mo - 1 year	E	O	LF	✓														
3.3.4		Enforce Floodplain Ordinance to ensure that no building is built in the floodplain zones.	HMC, floodplain Manager	Ongoing	E N	O	LF		X				X									
3.3.5		Establish an Emergency Management Director position for the city	HMC, City Government	1 yr	NA	O	LF	✓	X				X									
3.3.6		Emergency snow routes are designated by city ordinance.	HMC, City Government	Ongoing	E N	O	LF						✓									

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\*\*\* E—Existing N—New

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**Goal 3.** Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards: on the loss of life; on new and existing properties; on natural resources; on infrastructure; and on the local economy.

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Action Item #	Action Item and Strategy	Coordinating Organization	Time Line	Structures ***	N--New R--Revision O--Ongoing	Funding****	Macon County	Bever	Callao	Elmer	LaPlata	Macon City	South Gifford	Atlanta C-3 SD	Bever C-4 SD	Callao C-8 SD	LaPlata R-II SD	Macon R-I SD	Macon R-IV SD	Five Year Update Revision
3.3.7	Enforcement of current building codes, BOCA	HMC, city government	Ongoing	E N	R	LF					X	✓								IIBC
3.3.8	Review of storm water drainage system and capital improvement plan to upgrade water drainage as needed.	HMC, city government, MMU	1-5 yrs	E N	O	F-S- G LF		X			X	✓								
3.3.9	Established EOC (Emergency Operations Center) at the Fire/ Police Departments.	HMC, Fire EMD, Police Dept.	2-5 yrs	E N	N	F-S- G LF		X	X		X	✓								Complete

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\*\*\* E--Existing N--New  
EMD--Emergency Management Director  
\*\*\*\* LF--Local Funding F-S-G Federal / State Grants N/A Not Applicable  
EOC--Emergency Operations Center MODOT--Missouri Dept. of Trans

# Multi-Jurisdictional Local Hazard Mitigation Plan

Action Worksheet	
<b>Name of Jurisdiction:</b>	
Risk / Vulnerability	
<b>Hazard(s) Addressed:</b>	List the hazard or hazards that will be addressed by this action
<b>Problem being Mitigated:</b>	Provide a brief description of the problem that the action will address. Utilize the problem statement developed in the risk assessment.
Action or Project	
<b>Applicable Goal Statement:</b>	Choose the goal statement that applies to this action
<b>Action/Project Number:</b>	Insert a unique action number for this action for future tracking purposes. This can be a combination of the jurisdiction name, followed by the goal number and action number (i.e. Joplin 1.1)
<b>Name of Action or Project:</b>	
<b>Mitigation Category:</b>	Prevention; Structure and Infrastructure Projects; Natural Systems Protection; Education and Outreach; Emergency Services
<b>Action or Project Description:</b>	Describe the action or project.
<b>Estimated Cost:</b>	Provide an estimate of the cost to implement this action. This can be accomplished with a range of estimated costs.
<b>Benefits:</b>	Provide a narrative describing the losses that will be avoided by implementing this action. If dollar amounts of avoided losses are known, include them as well.
Plan for Implementation	
<b>Responsible Organization/Department:</b>	Which organization will be responsible for tracking this action? Be specific to include the specific department or position within a department.
<b>Action/Project Priority:</b>	Include the STAPLEE score and Priority (H, M, L)
<b>Timeline for Completion:</b>	How many months/years to complete.
<b>Potential Fund Sources:</b>	List specific funding sources that may be used to pay for the implementation of the action.
<b>Local Planning Mechanisms to be Used in Implementation, if any:</b>	
Progress Report	
<b>Action Status:</b>	Indicate status as New, Continuing Not Started, or Continuing in Progress
<b>Report of Progress:</b>	For Continuing actions only, indicate the report on progress. If the action is not started, indicate any barriers encountered to initiate the action. If the action is in progress, indicate the activity that has occurred to date.

# Multi-Jurisdictional Local Hazard Mitigation Plan

Action Worksheet	
<b>Name of Jurisdiction:</b>	
Risk / Vulnerability	
<b>Hazard(s) Addressed:</b>	
<b>Problem being Mitigated:</b>	
Action or Project	
<b>Applicable Goal Statement:</b>	
<b>Action/Project Number:</b>	
<b>Name of Action or Project:</b>	
<b>Mitigation Category:</b>	
<b>Action or Project Description:</b>	
<b>Estimated Cost:</b>	
<b>Benefits:</b>	
Plan for Implementation	
<b>Responsible Organization/Department:</b>	
<b>Action/Project Priority:</b>	
<b>Timeline for Completion:</b>	
<b>Potential Fund Sources:</b>	
<b>Local Planning Mechanisms to be Used in Implementation, if any:</b>	
Progress Report	
<b>Action Status:</b>	
<b>Report of Progress:</b>	

# MULTI-JURISDICTIONAL LOCAL HAZARD MITIGATION PLAN

## Modified STAPLEE Process For Prioritization of Proposed Mitigation Actions

The goal of each proposed mitigation action is life safety and/or reduction or prevention of damage from a hazard event. In order to determine the effectiveness in accomplishing this goal, evaluate each action using the criteria below which includes criteria utilizing the STAPLEE method. This method analyzes the Social, Technical, Administrative, Political, Legal, Economic and Environmental aspects of a project and is commonly used by public administration officials and planners for making planning decisions.

Ask the following STAPLEE criteria questions about each proposed mitigation action and strategies. Assign a score to each criterion as follows: (Definitely YES = 3, Maybe YES = 2, Probably NO = 1, Definitely NO = 0)

### STAPLEE criteria:

- **Social:** Is the proposed strategy socially acceptable to the community?
- **Technical:** Will the proposed strategy work? Will it solve a problem independently?
- **Administrative:** Can the community implement the strategy? Is there someone to coordinate and lead the effort?
- **Political:** Is the strategy politically acceptable? Is there public support both to implement and to maintain the project?
- **Legal:** Is the community authorized to implement the proposed strategy? Is there a clear legal basis or precedent for this activity?
- **Economic:** What are the costs and benefits of this strategy? Does the cost seem reasonable for the size of the problem and the likely benefits? After implementation, will the benefits over time be more than the cost of the project?
- **Environmental:** Will the project have a positive impact on the environment?
  
- Will historic structures be saved or protected?
- Could it be implemented quickly?

### Mitigation Effectiveness:

Ask the following questions about each proposed mitigation action as it relates to life/safety and/or reduction or prevention of damages. Assign 5-10 additional points.

Will the implemented action result in lives saved?

Will the implemented action result in a reduction of disaster damages?

# MULTI-JURISDICTIONAL LOCAL HAZARD MITIGATION PLAN

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

<input type="checkbox"/> <b>High Priority</b> (30+ points)	<input type="checkbox"/> <b>Medium Priority</b> (25 - 29 points)	<input type="checkbox"/> <b>Low Priority</b> (<25 points)
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Completed by  
(Name, Title, Phone Number) \_\_\_\_\_

# MACON COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE MEETING #3 —SIGN-IN SHEET

**Project:** Macon County, Missouri Multi-jurisdictional Hazard Mitigation Plan Update      **Meeting Date/Time:** October 7, 2019 2:00 p.m.  
**Facilitator:** Devyn Campbell, Fiscal Officer/Community Planner      **Place/Room:** Macon County Fairgrounds- Floral Hall  
 Mark Twain Regional Council of Governments      1305 S. Missouri Street, Macon, MO

Name	Title	Department/Agency	Email	Phone #	Signature
Denise Case	City Clerk	Atlanta	cityofatlanta@cvalley.net	660-239-4880	Denise A. Case
Bruce Weimer	Middle School Principal	MACON R-1	bweimer@macon.k12.mo.us	660-385-2189	Bruce Weimer
Josh Brummitt	Principal	Atlanta C-3 School District	jbrummitt@atlanta.k12.mo.us	660-239-4211	Josh Brummitt
Tasia West	Teacher	Atlanta C-3 School District	twest@atlanta.k12.mo.us	660-342-4222	Tasia West
Sue Gaudler	Director Board member	MED	sgaudler@cvalley.net	660-385-5600	Sue Gaudler
Chad Sawyer		Lafayette Special Road District	Chad.Sawyer@profs.com	660-341-3011	Chad Sawyer
Kevin Myers	Code Enforcement	City of Macon	codeenforcement@cityofmacon.mo.us	660-395-2632	Kevin Myers
Trinette Penkert	City Clerk	City of Brierley	brierley@brierley.net	660-773-5314	Trinette Penkert
Ross Sutton	Fire Chief	MACON FIRE DEPT	ross@maconfire.com	660-385-6436	Ross Sutton
Avis L. Marshall	City Administrator	City of Macon	cityofmacoon-mo.gov	(417) 385-4671	Avis L. Marshall
Clayton Spivey	COORDINATOR	MACON			Clayton Spivey



# MACON COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN UPDATE MEETING #3 —SIGN-IN SHEET

**Project:** Macon County, Missouri Multi-jurisdictional Hazard Mitigation Plan Update

**Meeting Date/Time:** October 7, 2019  
2:00 p.m.

**Facilitator:** Devyn Campbell, Fiscal Officer/Community Planner  
Mark Twain Regional Council of Governments

**Place/Room:** Macon County Fairgrounds- Floral Hall  
1305 S. Missouri Street, Macon, MO

Name	Title	Department/Agency	Email	Phone #	Signature
Daniel Liebhart	Principal	Macon Co. & IV New Cambria	dliebhart@ MCR4.K12.mo.us	660-226- 5615	Daniel Liebhart
Kevin Souther	District 1# Commissioner	Macon County Gov.	Macon Dist I @ gmail	660-384-2212	Kevin Souther
ALAN WYNATH	Presiding Commissioner	MACON County	Macon.Presiding@Gmail .com	660 385-2913	Alan Wynath
Shari Dye	Macon County END	macon County	director@ maconcoem.org	660-651-5086	Shari Dye
Cindy Hultz	Ex- Direct	MTRCOG	hultz@gerelish		Cindy Hultz
Dawn Campbell	Fiscal Off.	MTRCOG	campbellc@talktelcom	573-565- 2203	Dawn Campbell

## Devyn Campbell

---

**From:** Devyn Campbell <campbellcog@rallstech.com>  
**Sent:** Friday, September 13, 2019 10:09 AM  
**To:** Alan Wyatt; 'macon.district1@gmail.com'; 'macon.district2@gmail.com'; 'mct@cvalley.net'; 'cityofatlanta'; 'Cvalley'; 'cityofcallao@cvalley.net'; 'lois bragg'; 'Bobbie Jacques'; 'Robert'; 'tpate@cvalley.net'; 'Macon City Administrator'; 'debjaco@yahoo.com'; 'grannyof3ormore@yahoo.com'; 'Sue Goulder'; 'mail@maconmohealth.org'; 'macon.rbsuper@gmail.com'; 'customerservice@maconutilities.com'; 'sjarvis@macon.k12.mo.us'; 'jdunham@mcr4.k12.mo.us'; 'dliebhart@mcr4.k12.mo.us'; 'phalstead@callaoc8.k12.mo.us'; 'wperkins@atlanta.k12.mo.us'; 'jbrummit@atlanta.k12.mo.us'; 'patrickj@bevier.k12.mo.us'; 'Jason Martie'; 'amorris@laplata.k12.mo.us'; 'woodfarms96@outlook.com'; 'macon.rbsuper@gmail.com'  
**Cc:** Cindy Hultz  
**Subject:** RE: Macon County Hazard Mitigation Plan Update

### **Subject: Macon County Multi-Jurisdictional Hazard Mitigation Plan Update Meeting #3**

Please remember if your jurisdiction does not participate in the plan update you will not be eligible for Hazard Mitigation grant funding- This is the final meeting.

On behalf of Macon County, you are invited to the final planning meeting to develop the update to the Macon County Multi-Jurisdictional Hazard Mitigation Plan. This meeting will focus on updating the mitigation strategy. Mitigation actions, which make up the strategy, are specific activities that can be undertaken in advance to reduce the impacts of hazards.

During the meeting, we will discuss key issues from the risk assessment and participate in a facilitated discussion of the mitigation strategy including continuing mitigation actions identified in the previous plan as well as identification of any new mitigation actions that should be added to the mitigation strategy to ensure a comprehensive approach to hazard mitigation. In addition, action implementation details will be discussed for both continuing and new actions.

#### **Macon County Multi-Jurisdictional Hazard Mitigation Plan Update Meeting #3**

##### **Updating the Mitigation Strategy**

**October 7, 2019**

**Meeting Time: 2:00 p.m.**

**Place: Macon County Fairgrounds- Floral Hall**

**Address: 1305 S. Missouri Street, Macon, MO**

As discussed in previous meetings, the Disaster Mitigation Act of 2000 requires counties, municipalities, school districts, and other jurisdictions to participate in an approved Hazard Mitigation Plan to be eligible for certain federal hazard mitigation funding programs. To qualify as a participant in the plan, authorized representatives for each jurisdiction must participate in development of the plan update. It is essential for the county, incorporated cities, and public school districts to send at least one individual to the planning meeting detailed above. If you will be unable to attend, please ensure that someone else from your jurisdiction is designated to attend.

Other stakeholders such as businesses, academic institutions, private non-profit entities and others in the planning area with an interest in hazard mitigation are encouraged to attend to provide input to the mitigation strategy update.

The Mark Twain Regional Council of Governments has taken the lead in developing this plan. The point of contact is Devyn Campbell, Fiscal Officer. To successfully complete this project and ensure your organization is eligible for FEMA hazard mitigation assistance funding, we need your participation and input.

Please confirm your attendance or provide contact information for your designated alternate by responding to Devyn Campbell at 573-565-2203 or [campbellcog@rallstech.com](mailto:campbellcog@rallstech.com).

Thank you,

***Devyn Campbell***

**Mark Twain Regional Council of Governments  
Fiscal Officer/Community Planner**

42494 Delaware Lane  
Perry, MO 63462  
(573) 565-2203

## MACON COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN




### MEETING #3 MITIGATION STRATEGY OCTOBER 7, 2019

Project Planner: **Dwain Campbell, Fiscal Officer/Community Planner**  
**Mark Twain Regional Council of Governments**

1


### 9 TASKS TO COMPLETE THE PLAN UPDATE



- Task 1: Determine the Planning Area and Boundaries
- Task 2: Build the Planning Team
- Task 3: Create an Outreach Strategy
- Task 4: Review Community Experiences
- 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

4


### MEETING PURPOSE



- Review Purpose/Requirements
- Public Comment Period
- Updating the Mitigation Strategy
  - Review Updated Plan Goals
  - Status of Previous Actions
  - Development of New Actions
  - Prioritization of Mitigation Actions
- Hazard Mitigation Assistance Grants
- Plan Maintenance
- Next Steps

2

### PARTICIPATING JURISDICTIONS— REVIEW REQUIREMENTS



- Designate a representative to serve on the Hazard Mitigation Planning Committee, which will meet three times during the planning process;
- Provide data for and assist in the development of the updated risk assessment that describes how various hazards impact your jurisdiction;
- Provide data to describe current capabilities;
- Develop/update mitigation actions (at least one) specific to your jurisdiction;
- Provide comments on plan drafts as requested;
- Inform the public, local officials, and other interested parties about the planning process and provide opportunities for them to comment on the plan; and
- Formally adopt the mitigation plan.

5

### DISASTER MITIGATION ACT OF 2000




- Requires local governments to adopt a natural hazard mitigation plan to maintain eligibility for FEMA Hazard Mitigation Assistance funds.
- This Plan Update is for a Multi-jurisdictional Hazard Mitigation Plan covering the Unincorporated County, participating Incorporated Cities, and Public School Districts




3

### STATUS OF PARTICIPATION REQUIREMENTS




Jurisdictions	Meeting Attendance	Data Collection Guide
Macon County	Yes	Yes
Atlanta	Yes	Yes
Bevier	Yes	Yes
Callao	Yes	Yes
Eimer	Yes	Yes
Ethel	No	No
La Plata	Yes	Yes
Macon	Yes	Yes
New Cambria	No	Yes
Macon County R-I School District	Yes	Yes
Macon County R-IV School District	Yes	Yes
Atlanta C-3 School District	No	No
Bevier C-4 School District	No	No
La Plata R-II School District	No	No
Callao C-8 School District	No	No

6



## PUBLIC COMMENT PERIOD

7



## PLAN GOALS— UPDATED AT MEETING #2


- It was decided to keep the Goals the same as 2015 Plan.
- Goal 1 Public Awareness—Using a variety of communications avenues to increase the citizens' awareness of and promote education about the natural hazards that they may face, their vulnerability to these hazards, and how to lessen the effect of future natural hazards. Objective 1 Provide informational brochures, websites and programs to educate the public about hazards that may affect them in the future. Objective 2 Publicize appropriate mitigation measures for future natural hazards. Objective 3 Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.
- Goal 2 Strengthen communication and coordination between local governments, emergency personnel, public agencies, and citizens to mitigate the effects of future natural hazards. Objective 1 Build and support local partnerships to lessen the effects of natural hazards. Objective 2 Encourage active participation and responsibility of elected officials and emergency personnel in mitigation planning and activities. Objective 3 Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property and the environment.
- Goal 3 Investigate, implement, maintain, and enforce mitigation policies and programs that limit the impact of natural hazards on the loss of life on new and existing properties, on natural resources, on infrastructure and on the local economy. Objective 1 Incorporate mitigation procedures and planning into the community. Objective 2 Encourage private involvement in mitigation activities. Objective 3 Pass and/or adopt ordinances, codes and standards to enforce mitigation activities.

10



## UPDATING THE MITIGATION STRATEGY


8



## MITIGATION ACTIONS

- Losses from hazards can be reduced if communities take action before the next disaster
- Actions have long term and cumulative benefits
- Some may be low-cost initiatives readily adopted
- Others may be dependent on available funding or best implemented following a disaster
- Relevant to your Jurisdiction
- Focus on Mitigation- Not a response plan
- Not all actions identified through this planning process will be eligible for FEMA grants


11



## MITIGATION STRATEGY

- Goals are general guidelines that explain what you want to achieve. They are long-term, broad, policy-type statements.
- Mitigation Actions are specific actions that help achieve goals.

9



## UPDATING/DEVELOPING MITIGATION ACTIONS

- Previous Actions—status updates required for ALL actions from previous plan (FEMA will not approve without this)
- New Actions—add new actions, as appropriate
  - FEMA's Mitigation Ideas Booklet
  - Review Problem Statements from Risk Assessment
  - State Priorities for Hazard Mitigation Assistance Grants
  - Public Opinion from Surveys

**S**pecific  
**M**easurable  
**A**chievable  
**R**elevant  
**T**ime-bound

12

### PREVIOUS ACTIONS SEE HANDOUTS

Please turn these in ASAP!

Jurisdiction	Completed	KEEP Not Started	KEEP Ongoing	KEEP Modify	Delete	Status Not Reported
Macon County						
Atlanta						
Brewer						
Callao						
Elmer						
Ethel						
La Plata						
Macon						
New Canbrle						
Macon County R-I School District						
Macon County R-IV School District						
Atlanta C-3 School District						
Brewer C-4 School District						
La Plata R-II School District						
Callao C-8 School District						

13


### DROUGHT PROBLEM STATEMENTS

- Problem Statement**
- Macon County is at a medium-high risk for a severe drought which is an extra strain placed on the water supply system. Possible solutions include the development of agreements with neighboring communities for a secondary water source and review of local ordinances/regulation for inclusion of water-use restrictions during periods of drought.

16

### PROBLEM STATEMENTS FROM RISK ASSESSMENT / PREVIOUS ACTIONS

- Plant Hazards
- Dam Failure
- Drought
- Earthquakes
- Extreme Heat
- Fires
- Flooding
- Land Subsidence
- Landslides
- Thunderstorms/High Winds/Lightning/Hail
- Tornado
- Winter Weather/Slow/iced Severe Cold



Any gaps between jurisdictions identified in risk assessment, such as fire codes and building codes, jurisdiction?

14

### EARTHQUAKES PROBLEM STATEMENTS

- Although Macon County is not located in an area that will likely see catastrophic damage from an earthquake, the County will be impacted by the loss of communications, transportation, the disruption of roads, rail and pipelines, water transportation, and the area will see a significant amount of refugees fleeing from Southern Missouri if a quake hits that area. Education is minimal for earthquakes due to the low likelihood of impact. There is one Emergency Management Director for the County that knows where all the generators and emergency buildings are. Not all citizens utilize social media and texting.
- An emergency plan for earthquakes needs to be made available to all residents and stated what would happen in the event of an earthquake with details for communications and transportation. Downtown building owners need to know plan in case damage is done to their building. Residents need to be made aware of where the generators and emergency buildings are located. Utilization of social media and texting needs to be encouraged.

17

### DAM FAILURE PROBLEM STATEMENTS


- Problem Statement**
- A lack of regular inspection/maintenance of un-regulated high hazard dams was noted by the Mitigation Planning Committee. Possible solutions include the development of a regular maintenance schedule, identification of qualified staff and/or consultant to assist, and maintenance report submittal requirements.

15

### EXTREME TEMPERATURE'S PROBLEM STATEMENTS

- Problem Statement**
- Macon County has a growing population of residents over 65 years, who are at a greater risk for extreme-temperature related illnesses, injuries, and death. Possible solutions include organizing outreach to the vulnerable elderly populations, including establishing and promoting accessible heating or cooling centers in the community and creating a database in coordination with the Health Department to track those individuals at high risk.


18



### WILDFIRE PROBLEM STATEMENTS

- Problem Statement
- Residents do not comply with burn bans, education is not available for the levels of burn bans, many residents lack education in fire safety and not all residents utilize social media and texting. Education needs to occur on the dangers associated with not complying with the burn bans, more education for fire safety and encourage utilization of social media and texting. Due to Macon County's high drought rating, they may be more susceptible to fires.


19



### THUNDERSTORM/HIGH WINDS/ LIGHTNING/HAIL PROBLEM STATEMENTS

- Problem Statement
- Thunderstorms can damage power lines with the high winds or fallen debris such as tree limbs. Not everyone in the county utilizes social media, texting or have access to a weather radio, communities would benefit from updated sirens. Possible solutions include review of local ordinance and building codes to address high winds and/or construction techniques to include structural bracing, straps and clips, or anchor bolts.


22



### LAND SUBSIDENCE/SINKHOLES PROBLEM STATEMENTS

- Problem Statement
- Sinkholes can occur at any time and without warning and vary by size. There can be a disruption of transportation services and not residents in the dangerous areas are not educated on what to do if a sinkhole occurs. Education needs to occur on the danger areas of a sinkhole occurring and what to do if a sinkhole does occur.


20



### TORNADO PROBLEM STATEMENTS

- Problem Statement
- Macon County has inadequate tornado shelters throughout the county, not everyone utilizes social media and/or texting, the rural areas do not have warning sirens, lack of awareness for available shelters and more education needs to occur.
- Possible solutions include promoting the use of NOAA weather radios and conducting public education and outreach activities to increase awareness of tornado risk.


23



### LEVEE FAILURE PROBLEM STATEMENTS

- Problem Statement
- Low-head agricultural levees are not regulated or inspected on a regular basis.
- Residents need to be informed on how to perform inspections on low-head agricultural levees.


21



### WINTER WEATHER/SNOW/ICE/ SEVERE COLD PROBLEM STATEMENTS


- Problem Statement
- Macon County is expected to experience at least one severe winter weather events annually, the county has a low-medium vulnerability rating. Jurisdictions should enhance their weather monitoring to be better prepared for severe weather hazards. If jurisdictions monitor winter weather, they can dispatch road crews to prepare for the hazard. County and city crews can also trim trees along power lines to minimize the potential for outages due to snow and ice. Citizens should also be educated about the benefits of being proactive to alleviate property damage as well as preparing for power outages. Education needs to occur to ensure all residents are aware of the shelters in the County, residents are educated on emergency supplies to have and the utilization of social media and texting increases.

24




## ADDITIONAL RESOURCES

- FEMA's Mitigation Ideas Booklet
- Can be downloaded at:  
<https://www.fema.gov/media-library/assets/documents/30627?id=6938>




25



## MITIGATION ACTIONS

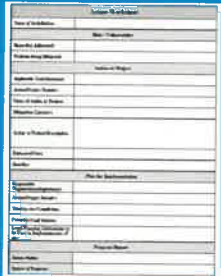
- Each jurisdiction is required to have at least one mitigation action.
- Mitigation Action Plan and STAPLEE Worksheet must be completed for each mitigation action for each jurisdiction
- Any Questions?

28




## MITIGATION ACTION PLANS

- Complete for Continuing and New actions
- Provides details for each action




26




## PLAN MAINTENANCE

29




## PRIORITIZING MITIGATION ACTIONS

- STAPLEE Worksheet (handout):
  - Social
  - Technical
  - Administrative
  - Political
  - Legal
  - Economical
  - Environmental



27




## PLAN MAINTENANCE

- FEMA Regulations require complete plan update every 5 years.
- FEMA requires a formal plan maintenance process to ensure that the mitigation plan remains an active and relevant document
- Who, how, and when will plan be monitored, evaluated, and updated?
- How will public be involved in plan maintenance process?
- How will mitigation strategy be incorporated into other planning mechanisms?

30






### PLAN IMPLEMENTATION AND MAINTENANCE-HMPC CONSENSUS NEEDED

- Who, how, and when will plan be monitored, evaluated, and updated?
  - Annual Review?, After hazard events?
  - Who will organize?, Who will participate?
  - Update Status of Mitigation Actions?
- How will public be involved in plan maintenance process?
  - Press Release on annual reviews?
  - Other ideas?

31




### HAZARD MITIGATION ASSISTANCE (HMA) GRANTS: MISSOURI STATE EMERGENCY MANAGEMENT AGENCY

- Hazard Mitigation Grant Program-HMGP
- Pre-Disaster Mitigation Grants-PDM
- Flood Mitigation Assistance Grants-FMA

Contact  
 Heidi Carver  
 State Hazard Mitigation Officer  
 573-526-9116


34



### PLAN IMPLEMENTATION AND MAINTENANCE-HMPC CONSENSUS NEEDED

- How will mitigation strategy be incorporated into other planning mechanisms?
  - Review Mitigation Plan during planning process to update other plans?
    - Comprehensive Plans
    - Capital Improvement Plans
    - School Infrastructure Plans
    - School Emergency Plans
  - After review of Mitigation Plan, forward strategy with updates for consideration in other planning mechanisms?


32



### OTHER FUNDING SOURCES

- USDA
  - Rural Development Grants
  - Emergency Watershed Protection Program
- U.S. Dept of Commerce
  - Public Works and Economic Dev. Facilities Assistance
- U.S. Dept of Housing and Urban Development
  - Community Development Block Grants
- U.S. Army Corps of Engineers
  - Studies
  - Projects


35



### COMPLETED ACTION FORMS/SPREADSHEET DUE **OCTOBER 18, 2019**

- Work with others in your jurisdiction to determine final actions to submit for the plan
  - Other Departments
  - Private Non-Profit Organizations
- Provide Completed Spreadsheet/Forms as email attachment to:
  - [campbellcog@rallstech.com](mailto:campbellcog@rallstech.com)


33



### COMMENT PERIODS-FULL PLAN DRAFT

- **November 1 - 15, 2019** Committee Comment Period
  - 2 week period
  - Notify others in your jurisdiction
- **November 15 - 29, 2019** Final Public Comment Period
  - 2 week period
  - [Marktwa-incog.com](http://Marktwa-incog.com)
  - Macon County Courthouse
  - Macon County Home Press

36



### HOMEWORK & NEXT STEPS

- ~~ASAP~~ Action Forms Due
- ~~ASAP~~ Jurisdictions Adopt Plan
- ~~November 1 - November 15, 2019~~ Committee Comment
- ~~November 15 - November 29, 2019~~ Final Public Comment Period
- ~~December 1, 2019~~ Submit Plan to SEMA
- ~~After receiving SEMA Approval~~ Submit Plan to FEMA (90 days to review)

37

**Cindy**

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**From:** Cindy <hultzcog@rallstech.com>  
**Sent:** Thursday, October 31, 2019 3:20 PM  
**To:** 'Home Press'  
**Subject:** Press Release  
**Attachments:** 3\_Press Release for Final Public Comment 1.doc

Hello-

Please see the attached Press Release that needs to be ran in next week's edition of the paper.

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

Thanks for help with this!

Cindy Hultz  
Executive Director

Mark Twain Regional Council of Governments  
42494 Delaware Lane  
Perry, MO 63462  
573-565-2203  
[www.marktwaincog.com](http://www.marktwaincog.com)

Macon County, Missouri  
**PRESS RELEASE**

For Immediate Release

Contact: Cindy Hultz  
573-565-2203

**Macon County Planning Committee Seeks Public Input**

Macon County, MO — The public is encouraged to review and comment on the Macon County Multi-jurisdictional Hazard Mitigation Plan Update before it is finalized. The plan includes an updated strategy to reduce damage and losses caused by hazard events. The final draft of the plan will be available online and in hard-copy at select public locations in Macon County from November 16-30, 2019. The purpose is to provide information to the public on the Multi-jurisdictional Hazard Mitigation Plan Update as well as gain public input.

Each year, thousands of American families are affected by disasters, and billions of dollars are spent on disaster recovery. Some disasters are predictable, and often, losses and damages can be reduced or eliminated. For these reasons, the Federal Disaster Mitigation Act of 2000 requires communities to develop an approved local hazard mitigation plan. Without such a plan, communities are not eligible for certain federal funding.

Representatives from county departments, the incorporated cities, public school districts, and other mitigation planning stakeholders worked together to develop this plan update. The planning committee addressed hazards ranging from extreme heat and severe winter storms to tornadoes and flooding—and considered the impacts of these events on local communities. Based on the results of an updated risk assessment of the hazards, committee members updated the strategies for their jurisdictions to reduce damages caused by the various hazards.

The planning committee would like input from the public on the updated strategy for Macon County. Public comments will be considered by the Hazard Mitigation Planning Committee and incorporated into the plan, as appropriate.

From November 15- 29, 2019 the final draft plan will be available for your review at the following locations:

Online at: [marktwaincog.com](http://marktwaincog.com)

In hard-copy during normal operating hours at: Macon County Courthouse  
101 E. Washington, Macon, MO 63552

The final plan must be approved by the governing body of each participating jurisdiction, the Missouri State Emergency Management Agency, and FEMA before becoming official. The Mark Twain Regional Planning Commission has taken the lead in developing this plan. The point of contact is Cindy Hultz, Fiscal Officer/Community Planner. For more information on this project, contact Cindy Hultz at 573-565-2203.

# THE PRESS

EAST MISSOURI SINCE 1876

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MARK TWAIN REGIONAL COUNCIL  
42494-DELAWARE LN  
PERRY, MO 63462-2129

Wednesday, November 6, 2019

Vol. 143 No. 44 Macon, MO 63552 75¢  
# Pages • 1 Sections

## OS Football

Page 5A

Pages 7A



0 4 8 7 9 4 2 1 2 9  
VISIT OUR WEBSITE FOR  
THE ONLINE EDITION!



### Responsibility In excellence



being selected to the 1st Quarter  
at work and continuing showing  
in all you do! L-R: Cecilia Garcia,  
Ben Cook, Emily Johnson, Olivia  
Blanca Lima, Pieper Wood, Kam-  
eran Robinson, Matthew Lindsey, El-  
mer. (Photos courtesy of La Plata

### MACTEC Shows Their Talent!



St. Patrick Church had MACTEC make a sign for the cemetery in Clarence. Savannah Woody, a graphic design student, designed it and Industrial Welding students made it and placed at the site. Awesome job!

### Macon County Planning Committee Seeks Public Input

Macon County, MO — The public is encouraged to review and comment on the Macon County Multi-jurisdictional Hazard Mitigation Plan Update before it is finalized. The plan includes an updated strategy to reduce damage and losses caused by hazard events. The final draft of the plan will be available online and in hard-copy at select public locations in Macon County from November 16-30, 2019. The purpose is to provide information to the public on the Multi-jurisdictional Hazard Mitigation Plan Update as well as gain public input.

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In hard-copy during normal operating hours at: Macon County Courthouse 101 E. Washington, Macon, MO 63552

on County

## Cindy

---

**From:** Cindy <hultzcog@rallstech.com>  
**Sent:** Thursday, October 31, 2019 2:35 PM  
**To:** 'Alan Wyatt'; 'macon.district1@gmail.com'; 'macon.district2@gmail.com'; 'mct@cvalley.net'; 'cityofatlanta'; 'Cvalley'; 'cityofcallao@cvalley.net'; 'lois bragg'; 'Bobbie Jacques'; 'Robert'; 'tpate@cvalley.net'; 'Macon City Administrator'; 'debjaco@yahoo.com'; 'grannyof3ormore@yahoo.com'; 'Sue Goulder'; 'mail@maconmohealth.org'; 'macon.rbsuper@gmail.com'; 'customerservice@maconutilities.com'; 'sjarvis@macon.k12.mo.us'; 'jdunham@mcr4.k12.mo.us'; 'dliebhart@mcr4.k12.mo.us'; 'phalstead@callaoc8.k12.mo.us'; 'wperkins@atlanta.k12.mo.us'; 'jbrummit@atlanta.k12.mo.us'; 'patrickj@bevier.k12.mo.us'; 'Jason Martie'; 'amorris@laplata.k12.mo.us'; 'woodfarms96@outlook.com'; 'macon.rbsuper@gmail.com'  
**Subject:** Macon County Hazard Mitigation Plan Update

Hello Everyone-

Thank you for participating in the update of the Macon County Hazard Mitigation Plan. The draft plan is located at the following link for Committee Comments for 2 weeks.

<https://www.marktwaincog.com/macon-county-hazard-mitigation-plans>

The Committee comment period ends on November 15, 2019 and then the Plan will be open for public comments. Please have any changes or corrections to me prior to November 15, 2019.

Thank you if you have provided a resolution to the Council of Governments for the plan adoption. If you are still needing to send me a resolution please do so by December 1st.

Thanks,

Cindy Hultz  
Executive Director

Mark Twain Regional Council of Governments  
42494 Delaware Lane  
Perry, MO 63462  
573-565-2203  
[www.marktwaincog.com](http://www.marktwaincog.com)