

RESOLUTION NO. 16-26

A RESOLUTION TO ADOPT THE UPDATED REGIONAL MULTI-HAZARD MITIGATION PLAN BY THE CITY OF GLADSTONE, MISSOURI AS RECOMMENDED BY THE PARTICIPATING JURISDICTIONS OF THE REGIONAL MULTI-HAZARD MITIGATION PLAN REVIEW COMMITTEE OF THE MID-AMERICA REGIONAL COUNCIL.

WHEREAS, the City of Gladstone, Emergency Management Agency, and the Mid-America Regional Council, has gathered information and prepared the *Regional Multi-Hazard Mitigation Plan*; and

WHEREAS, the *Regional Multi-Hazard Mitigation Plan* has been prepared in accordance with FEMA requirements at 44 C.F.R.201.6 and updated as required in 2015; and

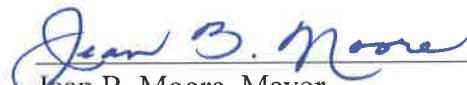
WHEREAS, the City of Gladstone, Emergency Management Agency, is a local unit of government that has afforded the citizens an opportunity to comment and provide input in the Plan and the actions in the Plan; and

WHEREAS, the City of Gladstone, Office of Emergency Management, has reviewed the Plan and affirms the Plan will be updated no less than every five years; and


NOW, THEREFORE, BE IT RESOLVED BY THE COUNCIL OF THE CITY OF GLADSTONE, MISSOURI, AS FOLLOWS:

THAT, the City of Gladstone, Missouri and the Gladstone Emergency Management Agency adopts the *Regional Multi-Hazard Mitigation Plan* as this jurisdiction's Multi-Hazard Mitigation Plan, and resolves to execute the actions in the Plan.

INTRODUCED, READ, PASSED, AND ADOPTED BY THE COUNCIL OF THE CITY OF GLADSTONE, MISSOURI THIS 9th DAY OF MAY 2016.



Jean B. Moore, Mayor

ATTEST:


Ruth E. Bocchino, City Clerk

Memo

To: Scott C. Wingerson, City Manager

From: Chief Michael J. Hasty, Director of Public Safety 

CC: Chris Williams, City Attorney
Deputy Chief Robert M. Baer, Police Field Services Division Commander
Captain Jeffrey R. Self, Investigations Division Commander
Division Chief Sean Daugherty, Fire/EMS Division Commander
Captain Robert Hays, Support Services Division Commander
Battalion Chief Michael Desautels, Director of Emergency Management
Ruth Bocchino, City Clerk

Date: May 4, 2016

Re: REGIONAL MULTI-HAZARD MITIGATION PLAN

Since November 2004, all local governments have been required to have an approved hazard mitigation plan in order to be eligible to apply for and receive certain funds under the FEMA Hazard Mitigation Program. These plans must be updated at least once every five years in order to continue eligibility for grant funding under this program. Mitigation plans identify the natural and technological hazards that could impact communities, identify actions to reduce losses from those hazards, and establish a coordinated process to implement those actions.

Since 2004, the Mid-America Regional Council (MARC), at the invitation of the State Emergency Management Agency (SEMA) and in partnership with the Missouri Association of Councils of Government (MACOG), has worked with local officials in Jackson, Clay, Platte, Cass, and Ray Counties and jurisdictions within those counties to prepare a *Regional Multi-Hazard Mitigation Plan* that helps local governments, school districts, businesses, community groups, and citizens in those jurisdictions with their planning and mitigation efforts. The 2015 Plan update reflects changes in the planning area, includes additional hazards, notes progress made on mitigation actions from previous plans and identifies new mitigation actions. Added to the list of threats in the 2015 Plan are cyber security and active shooter incidents.

The plan addresses the range of hazards that may affect the Kansas City region: tornadoes, severe thunderstorms, severe winter weather, flooding, levee failures, dam failures, drought, heat waves, wildland fires, earthquakes, mass transportation accidents, hazardous materials incidents, emerging infectious disease, trans-boundary animal disease, public mass shooting incident, civil disorder, cyber disruption, and terrorism. Hazard mitigation is a dynamic and ongoing process.

This plan provides a framework for hazard mitigation planning, both regionally and locally. The purpose of hazard mitigation is to reduce loss of life and property by lessening the impact of natural, man-made, and technological disasters. The Regional Multi-Hazard Mitigation Plan was updated in 2015, thus ensuring continuity of federal mitigation project grant funding through the year 2020. Attached is the Table of Contents for the 2015 Plan. I did not include a copy of the Plan as it is very lengthy (1,784 pages). You can read the entire Plan by accessing this link to the MARC web site:

http://marc2.org/assets/emergency/HMP2015_Final_

I have asked Battalion Chief Michael Desautels, Emergency Management Director, to prepare an overview of the city's Emergency Operations Plan (EOP) for a City Council Study Session later this summer. The presentation will cover the role of city council members, the city manager, department directors, how the Emergency Operations Center is activated and how resources are managed. The presentation will include an overview on how we exercise the EOP (tabletop, functional exercise, etc.) and how the Regional Multi-Hazard Mitigation Plan supplements the city's EOP.

Formal adoption of this plan by the City Council for the City of Gladstone is required so this can be included in the EOP. The City of Gladstone has been a continuing participant in the planning process with MARC since 2003. A resolution has been placed on the Monday, May 9, 2016, City Council Meeting Agenda, formally adopting the Regional Multi-Hazard Mitigation Plan. Please advise if you need further information.

Gladstone Theatre in the Park Announces 29th Season

Gladstone Theatre in the Park Announces 29th Season Damn Yankees: July 8,9 & 10th Shrek: August 5,6,& 7th Time: 8:30 p.m. Free!



Hazardous Mitigation Plan
Natural disasters happen. Review the 2015 plan today and provide your

omments to the plan! Learn more ...



Adopt a Pet
The Gladstone Animal Shelter is open from 12:30pm to 5:30pm and located at 3960 NE 76th Street. (816) 436-1810. Learn more ...



Rotating Art Show
Rotating Art Show at the Gladstone Community Center. Learn more ...




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MetroFlex is flexible, on-demand bus service that operates like taxicab for the same cost a fixed-route service. Learn more ...

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13h

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Oak Park, Staley & Winnetonka nominated for Starlight Theatre's annual Blue Star Awards:
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15h

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@gladstonemo






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03 May

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Regional Hazard Mitigation Plan

General Information

[Overview](#)[Bylaws](#)[Members](#)[Meeting Information](#)

Subcommittees

[Citizen Education](#)[Communications](#)[Medical Reserve Corps \(MRCKC\)](#)[Plans](#)[WebEOC](#)

Activities

[Regional Hazard Mitigation Plan](#)[Project Community Alert](#)[Storm Shelter Plan](#)[Warning Systems](#)

Other Resources

[PrepareMetroKC Website](#)[Regional Coordination Guide](#)

The SkyCast is
GREEN
(good)
or F5
for current SkyCast



During the spring and summer of 2015, nearly 60 communities, school districts, and fire/ambulance districts in Cass, Clay, Jackson, Platte and Ray counties worked to update the Regional Hazard Mitigation Plan. In the spring, the five counties in the MARC region hosted events so the public could learn more about the proposed goals and actions.

The goal of the plan is to reduce loss of life, property, human suffering, economic disruption and disaster assistance costs from natural and man-made disasters. The completion of the 2015 version of the plan by participating organizations and MARC allows the participants to continue to be eligible for pre- and post-disaster funds that may be available from the Federal Emergency Management Agency (FEMA).

The 2015 Regional Hazard Mitigation Plan contains new information about the tools or capabilities available to communities as they work toward mitigating hazards. The tools discussed fall into several categories: Planning and Regulatory, Administrative and Technical, Financial, and Educational and Outreach. The 2015 plan includes hazards that previously have not been included: severe thunderstorms (separated from tornadoes), levee failures, trans-boundary animal disease, public mass shootings, cyber disruption and terrorism. Organizations that participated in the 2010 plan reported on the progress that was made regarding their 2010 mitigation goals and actions. All 2015 participants were given the opportunity to outline future goals and strategies for each hazard that impacts their community.

[View the complete Regional Hazard Mitigation Plan 2015 here.](#) (NOTE: This is a very large file, and will be very slow to open and/or download. You may view smaller sections of the plan from the links below.)

Hazard Mitigation Plan 2015

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[Section 4 — Risk and Vulnerability Assessment — Drought](#)
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or 2010 Regional Hazard Mitigation Plan remains an important reference document for hazard mitigation planning and in documenting the historical occurrences of the hazards. The [2010 plan can](#) be found here.

Publications	Get Information	Get Involved	Useful Links	Find Us On
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Regional Multi-Hazard Mitigation Plan

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Memo

To: Public Safety Director, Mike Hasty
From: Michael Desautels
CC: file
Date: 05/05/2016
Re: MARC - Regional Multi-Hazard Mitigation Plan

Dear Director Hasty,

I hope this memo answers your questions, please let me know if you need further information or explanation. The full document can be viewed at: <http://www.marc.org/Emergency-Services-9-1-1/MEMC/Activities/Regional-Hazard-Mitigation-Plan>

I also contacted Melinda Mehaffey today and requested a public notice be placed on the City's website, social media and the Gladstone Dispatch for a period of two weeks.

The Regional Multi-Hazard Mitigation Plan is not a street-level operations plan, a mitigation plan is a comprehensive tool/resource for local, state and federal agencies that identifies, classifies, and rates potential hazards/vulnerability, as well quantifies and projects potential losses (human, built environment and economic impacts), as well a capabilities assessment to identify and consider each community's unique set of capabilities that currently reduce disaster losses or could be used to reduce losses in the future. Capabilities include policies, programs, staff, funding, and other resources available to accomplish local mitigation and reduce long-term local and regional vulnerability. This information is compiled (Regional Multi-Hazard Mitigation Plan) and then used to improve planning for community (local, regional, state and national) sustainability, through review and improvement to life-safety initiatives, building codes, fire codes, flood plain management, land-use management and etc.

In regards to a Gladstone - Hazard Mitigation Plan, Gladstone does not have a stand-alone plan (cost, personnel and resource prohibitive); the workaround for the development of a local plan was the cooperative effort of local jurisdictions and planning coordination through MARC; ultimately the adoption of the Regional Hazardous Mitigation Plan in 2010. As for current compliance, the 2015 Plan has been approved by FEMA and SEMA, and re-adoption would bring Gladstone into full compliance. I also made arrangements with Donna Martin, the MARC (Mitigation Plan) project coordinator to correct the remaining issues on the next available plan update.

Failure to comply with mitigation planning requirements will result in disqualification for the following grant programs: EMPG, HMPG, PDM, FMP (see below for detailed description). Specific to the EMPG- Participation in the Regional Multi- Hazard Mitigation Plan is a baseline requirement, as well satisfies requirement for participation in regional THIRA planning. Per the “EMERGENCY MANAGEMENT PERFORMANCE GRANTS (EMPG) PROGRAM MANUAL” “Baseline Grant Requirement #8: Threat and Hazard Identification and Risk Assessment (THIRA). Recipients of 2016 EMPG funding are required to participate in the development and/or maintenance of state or regional Threat and Hazard Identification and Risk Assessments (THIRA). Participation in THIRA development may include serving as a member of regional working groups, interacting with state or regional THIRA planners, and/or answering THIRA data call queries.”

<http://sema.dps.mo.gov/programs/documents/2016-mo-empg-program-manual.pdf> (page 6)

The updated *2015 Regional Multi-Hazard Mitigation Plan* was prepared and updated pursuant to the requirements of Section 322 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act, 42 U.S.C. 5165, as amended by Section 104 of the Disaster Mitigation Act of 2000, P.L. 106-390 (DMA 2000) and regulations set forth in 44 CFR §201.6, *Local Mitigation Plans*. With an approved updated hazard mitigation plan, Cass, Clay, Jackson, Platte and Ray counties and certain cities, school districts, colleges and universities will remain eligible for grants under the following federal hazard mitigation assistance programs:

Hazard Mitigation Grant Program (HMGP) The purpose of the HMGP program is to help communities implement hazard mitigation measures following a Presidential major disaster declaration. Hazard mitigation is any action taken to reduce or eliminate long-term risk to people and property from natural hazards. <http://www.fema.gov/hazard-mitigation-grant-program>

Pre-Disaster Mitigation (PDM) The PDM is designed to assist States, territories; and local communities in implementing a sustained pre-disaster natural hazard mitigation program. The goal is to reduce overall risk to the population and structures from future hazard events, while also reducing reliance on Federal funding in future disasters. This program awards planning and project grants and provides opportunities for raising public awareness about reducing future losses before disaster strikes. <http://www.fema.gov/pre-disaster-mitigation-grant-program>

Flood Mitigation Assistance (FMA) The FMA program is authorized by Section 1366 of the National Flood Insurance Act of 1968, as amended with the goal of reducing or eliminating claims under the National Flood Insurance Program (NFIP). FMA provides funding to local communities for projects that reduce or eliminate long-term risk of flood damage to structures insured under the NFIP. FMA funding is available for flood hazard mitigation projects; plan development, and management costs. <http://www.fema.gov/flood-mitigation-assistance-grant-program>

Emergency Management Performance Grant (EMPG) The purpose of the EMPG Program is to provide Federal funds to states to assist state, local, territorial, and tribal governments in preparing for all hazards, as authorized by Section 662 of the Post Katrina Emergency Management Reform Act (6 U.S.C. § 762) and the Robert T. Stafford Disaster Relief and Emergency Assistance Act (42 U.S.C. §§ 5121 et seq.). Title VI of the Stafford Act authorizes FEMA to make grants for the purpose of providing a system of emergency preparedness for the protection of life and property in the United States from hazards and to vest responsibility for emergency preparedness jointly in the Federal Government, states, and their political subdivisions. The Federal Government, through the EMPG Program, provides necessary direction, coordination, and guidance, and provides necessary assistance, as authorized in this title, to support a comprehensive all hazards emergency preparedness system. The EMPG Program will provide Federal funds to assist state, local, tribal, and territorial emergency management agencies to obtain the resources required to support the National Preparedness Goal's (the Goal) associated mission areas and core capabilities. The objective of the EMPG Program is to support a comprehensive, all –hazard emergency preparedness system by building and sustaining the core capabilities contained in the Goal. <https://www.fema.gov/emergency-management-performance-grant-program>

Mid-America Regional Council (MARC)

As the overall plan coordinator, MARC is a nonprofit association of city and county governments and the metropolitan planning organization for the bi-state Kansas City region. Governed by a Board of Directors made up of local elected officials, serving nine counties and 119 cities. Who provide a forum for the region to work together to advance social, economic and environmental progress. MARC is funded by federal, state and private grants, local contributions and earned income. A major portion of the budget is passed through to local governments and other agencies for programs and services. The Mid-America Regional Council promotes regional cooperation and develops innovative solutions through leadership, planning and action.

Leadership

- Identify regional challenges and act as a problem-solving forum.
- Promote consensus and commitment to regional solutions.
- Educate and engage the public in decision-making processes.

Action

- *Advocate for regional issues at the state and federal levels.
- *Provide cooperative services between local governments.
- *Allocate resources for regional systems.

Planning

- Coordinate policies that guide progress in the region.
- Develop regional plans for transportation, the environment, emergency response and more.
- Conduct research and provide technical support to local leaders.

<http://www.marc.org/About-MARC/General-Information/What-is-MARC>

Stand-Alone Mitigation Planning Requirements

Introduction

Table 1: Hazard Mitigation Planning Process – Local Planning Requirements by Program

FEMA mitigation programs such as those listed below have specific planning requirements that must be met in order to be eligible to participate in these programs. Therefore, when submitting a plan, you can either tailor it according to the specific criteria of the program, or you may submit a comprehensive, multi-hazard plan that explains which sections of the plan address which mitigation program requirements. This explanation is often called a "cross-walk" and it provides the reviewer with an easy way to link program requirements to specific sections of the plan. If you are completing a Flood Mitigation Assistance (FMA) Program or Community Rating System (CRS) plan, it may need to be expanded to receive credit under DMA 2000; however, if you complete a DMA plan, most other program requirements will probably be met. The planning process outlined in this series of how-to guides will help you meet the basic planning requirements of FEMA's mitigation programs.

FEMA How-to Series	Hazard Mitigation Grant and Pre-Disaster Mitigation Program (DMA 2000 Plan Criteria)	Flood Mitigation Assistance Program	Community Rating System Floodplain Management Planning (10-Step Process)
Planning Requirements	Phase 1 Organize Resources	Coordination among agencies	Coordination with other agencies
		Integration with other planning efforts	Involve the public
		Involve the public throughout the planning process	Organize to prepare the plan
		State coordination of local mitigation planning	
	Phase 2 Assess Risks	Identify all hazards	Assess the flooding hazard
		Profile hazard events	
		Assess vulnerability	Assess the problem
		Estimate potential losses	
	Phase 3 Develop the Mitigation Plan	Documentation of planning process	Set goals
		Local hazard mitigation goals	Review possible activities
		Capability assessment	Draft an action plan
		Identification and analysis of mitigation actions	
		Funding sources	
	Phase 4 Implement the Plan and Monitor Progress	Adoption	Adopt the plan
		Implementation of mitigation actions	Implement, evaluate, and revise the plan
		Implementation through existing planning mechanisms	
		Monitoring, evaluating, and updating the plan	
		Continued public involvement	

Plan Review/Update Requirements

Table 1.4: Community Profile Tools	
<ul style="list-style-type: none"> *Mitigation Planning Committee *Maintenance Program to reduce risk *Mutual aid agreement <p>Staffing Resources:</p> <ul style="list-style-type: none"> *Chief Building Official *Floodplain Administrator *Emergency Manager *Community Planner *Civil Engineer *Public Health Official *IT Support *GIS Coordinator <p>Technical Resources:</p> <ul style="list-style-type: none"> *Warning System/Services *Hazard data and information *Critical Facilities Map/APRS *HAZUS Analysis *Existing Land Use Maps *Future Land Use Maps *State Hazard Mitigation Plan *Grant Writing 	<ul style="list-style-type: none"> *Fees for water, sewer, gas or electric services *Impact fees for new development *Stormwater utility fee *Incur debt through general and/or special tax bonds *Incur debt through private activities *Community Development Block Grant *Flood Mitigation Assistance Program *Pre-Disaster Mitigation Program *Hazard Mitigation Grant Program
Education & Outreach	Planning & Regulatory
<p>Existing Warning Systems:</p> <ul style="list-style-type: none"> *Storm Sirens *Mass Notification Systems *CMAS *MEMC Project Community Alert *National Weather Service *Kansas City Scout <p>Community Partnerships:</p> <ul style="list-style-type: none"> *Regional Homeland Security Coordinating Committee *Metropolitan Emergency Managers Committee *Mid-America Local Emergency Planning Committee *Metropolitan Official Health Agencies of the Kansas City Area *Regional 9-1-1 System *SAVE Coalition *Kansas City Organization Active In Disaster *Community Emergency Response Team *Medical Reserve Corps of Greater Kansas City *Successful Small Cities: A Technical Tool Kit *Water Natural Resources Protection (NRI, WRP3) *Storm Shelter Model Ordinance *Ongoing public education *Natural disaster or safety related school program *StormReady certification 	<p>Plans:</p> <ul style="list-style-type: none"> *Comprehensive Master Plan *Capital Improvement Plan *Economic Development Plan *Local Emergency Operations Plan *Continuity of Operations Plan *Public Health Emergency Preparedness Plan *Transportation Plan *Stormwater Management Plan *Community Wildlife Protection Plan *Brownfields Redevelopment *Climate Change Adaptation <p>Codes:</p> <ul style="list-style-type: none"> *Building Code *Fire Code *Mechanical Code *Plumbing Code *Dangerous Building Code <p>Land Use Planning Policies:</p> <ul style="list-style-type: none"> *Stream setback ordinances *Floodplain management ordinances *Soil and erosion ordinances *Burn ordinance

The updated *2015 Regional Hazard Mitigation Plan's* goal is to reduce the loss of life, property, human suffering, economic disruption and disaster assistance costs from natural and man-made disasters. The purpose of a Hazard Mitigation Plan and why local governments engage in hazard mitigation planning is to identify risks and vulnerabilities associated with natural and technical disasters, and develop long-term strategies for protecting people and property from future hazard events. Mitigation plans are key to breaking the cycle of disaster damage, reconstruction, and repeated damage. Developing hazard mitigation plans enables state, tribal, and local governments to:

- Increase education and awareness around threats, hazards, and vulnerabilities;
- Build partnerships for risk reduction involving government, organizations, businesses, and the public;
- Identify long-term, broadly-supported strategies for risk reduction;
- Align risk reduction with other state, tribal, or community objectives;
- Identify implementation approaches that focus resources on the greatest risks and vulnerabilities; and Communicate priorities to potential sources of funding.

The 2015 Regional Multi-Hazard Mitigation Plan is a comprehensive 1734 page document, which details local and regional threats (natural or technological) and vulnerability (to population, built environment, infrastructure, and the economy) along with potential losses to the same. Contained within the plan each hazard is profiled and includes:

- Description of the potential hazard.
- Probable location of the hazard or the geographic areas that may be affected.
- Extent of a hazard based on severity and magnitude of hazard events.
- Previous (historical) occurrences of hazard events in the region.
- Probability of future events based on the likelihood of the hazard occurring.

The initial hazard profile is then immediately followed by a Vulnerability Assessment and Potential Loss Estimates section that includes an expanded narrative on potential impacts and overall summary of each jurisdiction's vulnerability to the identified hazards.

The vulnerability assessment for each hazard addresses:

- Vulnerable Assets impacted by the potential hazard including population, structures and critical facilities (both existing and future, when known), and other community assets determined to have value and susceptible to damage and loss from hazard events.
- Potential Impacts identified as consequences or effects on a community and its vulnerable assets.
- Loss Estimates based on a jurisdiction's building stock or other hazard-specific disaster impacts.
- Problem statements for each jurisdiction to clearly describe a its greatest vulnerabilities to be addressed in the mitigation strategy

Probability was drawn from historic occurrences and rated as low, medium or high. These ratings were defined as:

- Low—Hazard has little or no chance of happening (less than 1 percent chance of occurrence in any given year).
- Medium—Hazard has a reasonable probability of occurring (between 1 and 10 percent chance of occurrence in any given year).
- High—Probability is considered sufficiently high to assume that the event will occur (between 10 and 100 percent chance of occurrence in any given year).

Severity was determined as the potential number of deaths, injuries, or amount of damage (property or environmental) that could result from the hazard. When calculating severity, jurisdictions took into account the likely locations for each hazard. These were also ranked low, medium and high, defined as:

- Low—Few or minor damage or injuries are likely.
- Medium—Injuries to personnel and damage to property and the environment is expected.
- High—Deaths and major injuries and damage will likely occur.

The overall risk is then calculated by averaging probability with severity. For ease of calculation, simple numeric values were assigned to the rankings of low, medium or high: Low = 1, Medium = 2, High = 3. For example, if a tornado has a high probability (High = 3) of occurring with a high severity (High = 3), then the overall risk is high $((3 + 3)/2 = 3)$. However, if a town has a high probability of flooding, but due to mitigation measures only a low severity, and then the overall risk is medium $((3 + 1)/2 = 2)$. Based on the assumption that it was better to overestimate risk rather than underestimate it, all fractions were rounded up to the next whole number.

2015 Plan Overview and Changes

The 2015 Regional Hazard Mitigation Plan contains new information about the tools or capabilities available to communities as they work toward mitigating hazards. The tools discussed fall into several categories: Planning and Regulatory, Administrative and Technical, Financial, and Educational and Outreach. The 2015 plan includes hazards that previously have not been included: severe thunderstorms (separated from tornadoes), levee failures, trans-boundary animal disease, public mass shootings, cyber disruption and terrorism.

The 2015 plan contains detailed analyses of 18 hazards that may potentially affect the Kansas City area, to include Gladstone, MO. To better meet the intent of the Disaster Mitigation Act of 2000, the Planning Team separated these hazards into two categories: Primary Natural Hazards— which includes tornadoes, severe thunderstorms, severe winter weather, flooding, drought, heat waves, wildland fires, earthquakes, dam failures and levee failures, and Secondary- Natural, Technological and Human-Caused Hazards, which includes emerging infectious disease, trans-boundary animal disease, hazardous materials incidents, mass transportation accidents, cyber disruption, public mass shooting incidents, civil disorder and terrorism.

For the 2015 Plan update, tornadoes and severe thunderstorms are presented as distinct hazards. Five new hazards were added: levee failure, cyber disruption, trans-boundary animal disease, public mass shooter incidents and terrorism. The Planning Team had originally identified only 17 hazards to profile, but after reviewing the results of the community surveys determined to add public mass shooter incidents, as the majority of school districts identified them as high concern threats. However, this hazard wasn't specifically identified on the survey, therefore the cities and counties did not rate their overall risk to it.

Hazards Not Included in the 2015 Plan and Reasons for Elimination

Landslides, land subsidence, debris flows and expansive soils are not included as separate natural hazards in this plan because they are generally not likely to occur within much of the region due to the topography, types of soils and substructures in west-central Missouri. Landslides, however, may be a cascading hazard resulting from a sufficiently powerful earthquake or flood/heavy precipitation, since these natural hazard events may trigger landslides in steep loess bluffs along the Missouri River in portions of Clay, Jackson, Platte and Ray counties. Even these areas, however, are only categorized as moderately susceptible/low incidence. Other natural hazards, such as coastal storms, coastal erosion, hurricanes, tsunamis, avalanches and volcanic activity are not addressed in this plan because the Kansas City metropolitan area is not at risk from these natural hazards, due to the region's geographic location, soil profile and geologic structure.

Plan Maintenance

Requirement 44 CFR 201 [The plan maintenance process shall include a] section describing §201.6(c)(4)(i): the method and schedule of monitoring, evaluating, and updating the plan within a five-year cycle.

(d) *Local governments.* The key responsibilities of local governments are to:

- (1) Prepare and adopt a jurisdiction-wide natural hazard mitigation plan as a condition of receiving project grant funds under the HMGP, in accordance with §201.6.
- (2) At a minimum, review and update the local mitigation plan every 5 years from date of plan approval of the previous plan in order to continue program eligibility.

2015 Update Plan Maintenance

The Regional Mitigation Plan shall be reviewed and evaluated annually or following a disaster and updated every five years, to determine the effectiveness of mitigation actions; reflect changes in laws, regulations and/or policies; reprioritize mitigation actions, if necessary, and consider other issues affecting hazard mitigation in the Kansas City metropolitan area. The MARC Planning Team, in accordance with the roles and responsibilities outlined in Attachment 1 of the plan, shall be responsible for coordinating annual reviews of the plan for their represented jurisdictions. The annual review process shall include an evaluation of the plan's effectiveness for the area. Criteria used to evaluate the plan should include:

- The goals and objectives address current and expected conditions
- The nature, magnitude and/or types of risk have changed

- The current resources are appropriate for implementing the plan
- There are implementation problems, such as technical, political or legal or there are coordination issues with other agencies
- The outcomes have occurred as expected
- The agency and partners participated as originally proposed
- Climate Change Adaptation Measures in progress

Participating Jurisdictions

Through mitigation planning, each participating jurisdiction has identified areas throughout the region vulnerable to potential hazards and developed strategies to reduce such vulnerability. This updated hazard mitigation plan documents the progress made on established mitigation actions and proposes new actions designed to reduce the impacts of hazards and increase resilience. The updated plan is the result of a collaborative effort by the following participating jurisdictions:

Clay County

Excelsior Springs

Gladstone

Kearney

Liberty

Mosby

North Kansas City

Smithville

Fishing River Fire Protection District

North Kansas City School District

Smithville R-1 School District

Cass County

Belton

Harrisonville

Lake Winnebago

Peculiar

Pleasant Hill

Raymore

Archie R-V School District

Harrisonville School District

Pleasant Hill R-III School District

Raymore-Peculiar School District

Jackson County

Blue Springs

Grandview

Independence

Kansas City, Mo.

Lee's Summit

Oak Grove

Raytown
Sni Valley Fire Protection District
Blue Springs School District
Fort Osage R-1 School District
Independence School District
Kansas City School District
Lee's Summit School District

Platte County*

Edgerton
Farley
Ferrelview
Houston Lake
Lake Waukomis
Northmoor
Parkville
Platte City
Platte Woods
Riverside
Tracy
Weatherby Lake
Weston
Northland Regional Ambulance District
West Platte Fire Protection District
North Platte R-1 School District
Park Hill School District
Platte County R-3 School District
West Platte R-II School District
Park University

Data Sources

Many sources were researched for data and information relating to hazards in the Kansas City metropolitan area. Principal sources of all-hazard information include FEMA and SEMA. The National Climate Data Center (NCDC), National Oceanic and atmospheric Administration (NOAA) and National Weather Service (NWS) were primary sources of information and statistics on weather and/or climate-related hazards. The U.S. Geological Survey (USGS), Center for Earthquake Research and Information (CERI) and the Central United States Earthquake Consortium (CUSEC) were major sources for information on earthquakes and seismic activity in the Midwest and the Kansas City region. SEMA and the Missouri Department of Conservation (MDC) were major sources of fire information related to the Kansas City metropolitan area. The primary sources of information on dams and dam safety were the Missouri Department of Natural Resources (MDNR) Dam Safety Division and the U.S. Army Corps of Engineers' (USACE) National Inventory of Dams (NID).

Other sources of information include MARC Research Services Department; city and county Web sites and officials; existing county, regional and state plans, reports and documents; newspaper and news organization Web sites, articles and accounts of natural disasters; other state and federal agencies, such as the U.S. Census Bureau and Missouri Census Data Center (MCDC); and colleges and universities, especially the University of Missouri and University of Missouri Extension. References are noted at the end of each hazard profile with a bibliography of research sources in Appendix C: Maps and References. Several data deficiencies noted in the 2010 Plan have been corrected or new sources of information identified and noted in the 2015 plan.

Sincerely,

Michael Desautels

6.1 Attachments**Attachment 6.1: Hazard Mitigation Planning Committee (HMPC) Members Roles and Responsibilities****I. Roles*****A. Planning Team:***

Stan Swaggart, Director, Cass County Emergency Management
Representing the following Cass County communities:

- Belton
- Harrisonville
- Lake Winnebago
- Peculiar
- Pleasant Hill
- Raymore
- Archie R-V School District
- Harrisonville School District
- Pleasant Hill School District
- Raymore-Peculiar School District

Eric Ramsey, Emergency Management Director, Clay County
Representing the following Clay County communities:

- Excelsior Springs
- Gladstone
- Kearney
- Liberty
- Mosby
- North Kansas City
- Smithville
- Fishing River Fire Protection District
- North Kansas City School District
- Smithville R-II School District

Mike Curry, Director, Jackson County Emergency Preparedness
Representing the following Jackson County communities:

- Blue Springs
- Grandview
- Lee's Summit
- Oak Grove
- Raytown
- Sni Valley Fire Protection District

- Blue Springs R-IV School District
- Fort Osage School District
- Independence School District
- Kansas City School District
- Lee's Summit R-VIII School District
- Oak Grove R-VI School District
- Kansas City University of Medicine and Biosciences
- Metropolitan Community Colleges
-

Anthony Avery, Captain, Platte County Sheriff's Department (Appointed by Mark Owen, Director, Platte County Emergency Management)

Mike O'Neal, Deputy Director, Platte County Sheriff's Department (Appointed by Mark Owen, Director, Platte County Emergency Management)
Representing the following Platte County communities:

- Edgerton
- Farley
- Ferrelview
- Houston Lake
- Lake Waukomis
- Northmoor
- Parkville
- Platte City
- Platte Woods
- Riverside
- Tracy
- Weatherby Lake
- Weston
- Northland Regional Ambulance District (NRAD)
- West Platte Fire District
- North Platte R-1 School District
- Park Hill School District
- Park University
- Platte County R-III School District
- West Platte R-II School District

Dante Gliniecki, Emergency Manager, City of Independence

Andrew Carpenter, Emergency Preparedness Planner, City of Independence

Gene Shepherd, Emergency Manager, Kansas City, Mo. Emergency Management

Chris Carroll, Emergency Planner, Kansas City, Mo. Emergency Management

B. *Plan Author, Mid-America Regional Council (MARC):*

Donna E Field Martin, Emergency Services and Public Health Senior Planner

- Project manager, process facilitator, co-author and researcher

Justin Sorg, Planning and Exercise Program Manager

- Co-author and researcher

Lisa Danbury, Emergency Services Consultant

- Co-author and researcher

Mark Widner, Emergency Services Consultant

- Co-author and researcher

John Davis, Emergency Services Administrative Support

- Data management and document design

Erin Lynch, Emergency Services and Homeland Security Program Director

- Editor and project oversight

Frank Lenk, Research Service Director

- Research lead

Jakob Goldman, GIS Specialist II

- GIS mapping, coordination and research

Andrea Rapinsky, GIS Specialist II

- GIS mapping and research

Laura Bogue, Public Affairs Coordinator

- Lead graphic designer; marketing coordinator

Barbara Hensley, Public Affairs Program Director

- Editor, graphic design

Amanda Keller, Public Affairs Coordinator

- Public engagement coordinator

Angela Waltz, Public Affairs Website Coordinator

- Web site design

Sasan Baharaeen, Manager of Information Services

- Database design and maintenance, IT support

II. **Responsibilities**

A. ***Plan Author***

1. Provide administrative support for the update process to include, but not limited to:
 - a. Organize meetings, send mailings, draft and incorporate plan revisions, conduct research, etc.
 - b. Provide the Planning Team with recommendations and advice on plan requirements as well as electronic and/or hard copies of updates to the plan as they are drafted for review and comment
 - c. Assist in the development of mitigation strategies.
 - d. Provide monthly updates and other information as requested to SEMA in accordance memorandum of agreement.
 - e. Compile comments, revisions, evaluations, etc., from future reviews and updates and integrate into plan.

B. ***Planning Team***

1. Oversee the update process to include, but not limited to:
 - a. Determine requirements for satisfactory participation.
 - b. Review and approve all revisions to the hazard mitigation plan.
 - c. Provide locations to host meeting opportunities.
 - d. Work with represented jurisdictions to assist in gathering required information and developing mitigation strategies.
 - e. Organize yearly reviews of the plan for represented jurisdictions. Review all new information submitted and forward to Plan Author for incorporation.

C. ***Participating Jurisdictions***

1. Inform the update process by accomplishing the following:
 - a. Complete all requirements for satisfactory participation as determined by the Planning Team.

b. Review and comment on the plan as drafts become available. Formally adopt the completed plan by resolution.

c. Participate in yearly reviews of the plan and subsequent five-year updates. Submit changes as necessary to Planning Team representative for review and forward to Plan Author.

d. Designate a responsible party to coordinate the above and notify Planning Team representative of designee by name, job title, organization or any other satisfactory method upon appointment or when a change occurs. Responsible parties for participating jurisdictions shall be listed in Attachment 6.2 of this section.

Attachment 6.2: 2015 Participating Jurisdictions' Designated Responsible Parties		
Jurisdiction	Responsible Party (Name)	Title
1. Cass County	Stan Swaggart	Emergency Management Director
2. Clay County	Eric Ramsey	Assistant Emergency Management Director
3. Jackson County	Mike Curry	Emergency Preparedness Director
4. Platte County	Mike O'Neal	Deputy Emergency Management Director
5. Ray County	Gary Wilhite	County 911 Director
6. Belton	Bob Miller	Director of Emergency Management
7. Blue Springs	Chris Sandie	Assistant Director Public Works
8. Edgerton	Chris Stackhouse	Emergency Manager/Assistant Chief
9. Excelsior Springs	Paul Tribble	Fire Chief
10. Farley	Bob Kincaid	Emergency Manager
11. Ferrelview	Steve Carr	Emergency Management/Health Officer
12. Fishing River Fire Protection District	Gene Walker	Fire Chief
13. Gladstone	Chuck Duddy	Emergency Management Director
14. Grandview	Dennis Randolph	Director of Public Works
15. Harrisonville	Larry Francis	Emergency Services Director
16. Houston Lake	Don Coronado	Emergency Management Director
17. Independence	Andrew Carpenter	Emergency Preparedness Planner
18. Kansas City, Mo	Christopher Carroll	Emergency Management Planner

Attachment 6.2: 2015 Participating Jurisdictions' Designated Responsible Parties		
Jurisdiction	Responsible Party (Name)	Title
19. Kearney	David Pavlich	Community Development Director
20. Lake Waukomis	Donnie Hachman	Chief of Police
21. Lake Winnebago	Kenneth Smith	Emergency Management Director
22. Lee's Summit	Jim Eden	Assistant Chief
23. Liberty	Dustin Paddock	Fire Marshal
24. Mosby	Justin Lininger	Emergency Manager
25. North Kansas City	Dave Williams	Fire Chief
26. Northland Regional Ambulance District	Jason S James	Supervisor
27. Northmoor	Kelly Clark	Chief of Police
28. Oak Grove	Mark Sherwood	Emergency Management Director
29. Parkville	Jon Jordan	Captain
30. Peculiar	Carl Brooks	City Engineer
31. Platte City	Carl Mitchell	Chief of Police
32. Platte Woods	Michael Benne	Chief of Police/ EM Director
33. Pleasant Hill	Mark Randall	City Administrator
34. Raymore	Ryan Murdock	Emergency Management Coordinator
35. Raytown	Frank Stranimier	Police Captain
36. Richmond	Lonnie Quick	Fire Chief/EM Director
37. Riverside	Mike Shelton	Emergency Manager
38. Sni Valley Fire Protection District	Mark Sherwood	Emergency Management Director
39. Smithville	Jason Lockridge	Chief of Police
40. Tracy	Barbara Stewart	City Clerk/Collector
41. Weatherby Lake	Gary McMullin	Chief of Police
42. Weston	Kim Kirby	City Clerk

Attachment 6.2: 2015 Participating Jurisdictions' Designated Responsible Parties		
Jurisdiction	Responsible Party (Name)	Title
43. West Platte Fire Protection District	Lynn Johnson	Administrator of Emergency Services
44. Archie R-V School District	Sean Smith	Superintendent
45. Blue Springs R-IV School District	Bill Cowling	Assistant Superintendent
46. Fort Osage R-I School District	John Ruddy	Assistant Superintendent
47. Harrisonville School District	Tim Ryan	Assistant Superintendent
48. Independence School District	Robert Burkey	Director of Facilities
49. Kansas City School District	Regina Ferguson	Risk Manager
50. Lee's Summit R-VIII School District	Ryan Hall	Supervisor of Safety & Environmental Services
51. North Kansas City School District	Jon Brady	Director of Safety & Security
52. North Platte R-1 School District	Dr. Jeffrey Sumy	Superintendent
53. Oak Grove R-VI School District	Freddie Doherty	Superintendent
54. Park Hill School District	Joshua Colvin	Director Student Services
55. Platte County R-III School District	Tolan Singer	Director of Student Services
56. Pleasant Hill School District	John Griffith	Assistant Superintendent
57. Raymore-Peculiar School District	Jay Harris	Assistant Superintendent
58. Smithville R-II School District	Wayne Krueger	Assistant Superintendent
59. West Platte R-II School District	Dr. Regina Knott	Director of Special Services & Assessment

Attachment 6.2: 2015 Participating Jurisdictions' Designated Responsible Parties		
Jurisdiction	Responsible Party (Name)	Title
60. Kansas City University of Medicine and Biosciences	Eric Shirley	Manager, Safety & Emergency Management
61. Metropolitan Community Colleges	Elvin Seals	Deputy Chief Campus Police
62. Park Hill University	Michelle Budd	EHS Compliance Coordinator