

**REQUEST FOR LEGISLATIVE ACTION**

**Version 6/10/19**

Completed by County Counselor's Office:

Res/Ord No.: 20571

Sponsor(s): Jeanie Lauer

Date: December 7th, 2020

SUBJECT	<p>Action Requested  <input checked="" type="checkbox"/> Resolution  <input type="checkbox"/> Ordinance</p> <p>Project/Title: <u>Authorizing the County Executive to adopt and implement the Regional Multi-Hazard Mitigation Plan that was prepared and authored by the Mid-America Regional Council (MARC).</u></p>										
BUDGET INFORMATION <i>To be completed By Requesting Department and Finance</i>	<table border="1"> <tr> <td>Amount authorized by this legislation this fiscal year:</td> <td>\$0.00</td> </tr> <tr> <td>Amount previously authorized this fiscal year:</td> <td>\$0.00</td> </tr> <tr> <td>Total amount authorized after this legislative action:</td> <td>\$0.00</td> </tr> <tr> <td>Amount budgeted for this item * (including transfers):</td> <td>\$0.00</td> </tr> <tr> <td>Source of funding (name of fund) and account code number:</td> <td>\$0.00</td> </tr> </table> <p>* If account includes additional funds for other expenses, total budgeted in the account is: \$</p> <p>OTHER FINANCIAL INFORMATION:</p> <p><input checked="" type="checkbox"/> No budget impact (no fiscal note required)  <input type="checkbox"/> Term and Supply Contract (funds approved in the annual budget); estimated value and use of contract:                  Department: _____ Estimated Use: _____</p> <p>Prior Year Budget (if applicable): _____                  Prior Year Actual Amount Spent (if applicable): _____</p>	Amount authorized by this legislation this fiscal year:	\$0.00	Amount previously authorized this fiscal year:	\$0.00	Total amount authorized after this legislative action:	\$0.00	Amount budgeted for this item * (including transfers):	\$0.00	Source of funding (name of fund) and account code number:	\$0.00
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Source of funding (name of fund) and account code number:	\$0.00										
PRIOR LEGISLATION	<p>Prior ordinances and (date): _____                  Prior resolutions and (date): Resolution(s) #17303 06-14-10, #18936 09-21-15</p>										
CONTACT INFORMATION	<p>RLA drafted by (name, title, &amp; phone): Scott Goodman, Road Patrol Operations Commander, 816-541-8017</p>										
REQUEST SUMMARY	<p>Authorizing the County Executive to adopt and implement the Regional Multi-Hazard Mitigation Plan that was prepared and authored by the Mid-America Regional Council (MARC).</p> <p>The Regional Multi-Hazard Mitigation Plan is a multi-jurisdictional plan that represents a number of local county governments, local jurisdictions and school districts within the Mid America Regional Council and has been prepared in accordance with the Federal Emergency Management Agency (FEMA). Jurisdictions must adopt a Multi-Hazardous Mitigation Plan to be eligible for federal hazard mitigation funding. All participants agree to review and update the plan every five (5) years. Jackson County previously implemented the Multi-Hazardous Mitigation Plan in 2015.</p>										
CLEARANCE	<p><input type="checkbox"/> Tax Clearance Completed (Purchasing &amp; Department)  <input type="checkbox"/> Business License Verified (Purchasing &amp; Department)  <input type="checkbox"/> Chapter 6 Compliance - Affirmative Action/Prevailing Wage (County Auditor's Office)</p>										
COMPLIANCE	<p><input type="checkbox"/> MBE Goals  <input type="checkbox"/> WBE Goals  <input type="checkbox"/> VBE Goals</p>										
ATTACHMENTS											

REVIEW	Department Director:	<i>A/mjr Cept m n #4</i>	Date:	<i>12-1-2020</i>
	Finance (Budget Approval): <i>If applicable</i>		Date:	
	Division Manager:	<i>Arny M. Schmitt</i>	Date:	
	County Counselor's Office:		Date:	

Fiscal Information (to be verified by Budget Office in Finance Department)

- This expenditure was included in the annual budget.
- Funds for this were encumbered from the \_\_\_\_\_ Fund in \_\_\_\_.
- There is a balance otherwise unencumbered to the credit of the appropriation to which the expenditure is chargeable and there is a cash balance otherwise unencumbered in the treasury to the credit of the fund from which payment is to be made each sufficient to provide for the obligation herein authorized.
- Funds sufficient for this expenditure will be/were appropriated by Ordinance # \_\_\_\_\_
- Funds sufficient for this appropriation are available from the source indicated below.

Account Number:	Account Title:	Amount Not to Exceed:

- This award is made on a need basis and does not obligate Jackson County to pay any specific amount. The availability of funds for specific purchases will, of necessity, be determined as each using agency places its order.
- This legislative action does not impact the County financially and does not require Finance/Budget approval.

Jackson County 2020 Mitigation Strategy (Continuing Plan Participant, NFIP Participant)

Mitigation Goals and Action Steps	Plan Year	Status of Project	Status Explanation	Type of Mitigation Activity	Priority	Applies to Community Assets (New/Existing)	Existing Local Planning Mechanism through which the action was/will be implemented	Primary Agency Responsible for Implementation / Administration	Date for Completion	Cost / Benefit Review	Target Capacity	Estimated Cost (\$)	Funding Source
<b>Tornadoes</b>													
Ensure public facilities have shelters to accommodate staff and visitors during tornadoes/natural hazards.													
			The County has designated safety locations in governmental facilities for staff and visitors to shelter in during severe weather events. As a "Storm Ready" Community each facility has an "All-Hazard" weather radio and a method of being contacted by the EOC		High	Existing	Eastern Jackson County has designated shelter/safety locations as part of the Office of Emergency Preparedness function within County ordinances and codes	Department of Emergency Preparedness/County	Ongoing	Low/no cost mechanism to increase public safety.		Low	County Department general funds and grants
Assess existing facilities for shelter suitability. Mark clearly and inform visitors/employees of locations.	2020	Ongoing	Continued work with local jurisdictions within the County to implement such regulations.						Ongoing				
Consider adopting policies requiring incorporation of safe rooms/shelters in new public facility construction.	2020	Ongoing							Ongoing				
Retrofit or add shelters to existing public facilities or incorporate safe rooms into new public buildings to allow for adequate protection from tornadoes and high wind.	2020	Ongoing	The county continues to try and develop storm shelters in existing public facilities as funding and opportunities become available. As new construction of public facilities is planned, consideration will be given to the addition of safe rooms.		High	Existing	Eastern Jackson County has designated shelter/safety locations as part of the Office of Emergency Preparedness function within County ordinances and codes	Department of Emergency Preparedness/County	Ongoing	High cost to retrofit existing buildings but can also prevent large number of injuries and fatalities. Some cost could be subsidized by tax incentives and grants		High	Unknown
Encourage building practices and the use of materials that reduce the damaging effects of tornadoes.													
Adopt current edition of a model building code to address structural and architectural issues related to tornadoes and high wind events.	2010	Deleted	The County continues to review and adopt local building codes to improve the structural and architectural safety of structures		High	New	County Building regulations and Code compliance	Public Works Department	Ongoing	High cost to design and build stronger facilities but can prevent large number of injuries and fatalities. Some cost could be subsidized by tax incentives and grants		Medium	County general funds
Review and enhance (if necessary) regulations related to design and installation of architectural features on buildings to minimize the creation of windborne debris.	2010	Deleted	The County continues to encourage developers in non-incorporated County areas and local jurisdictional review of building codes / regulations /architectural designs		High	New	County Building regulations and Code compliance	Department of Emergency Preparedness/County and Public Works Department	Ongoing	Low/no cost mechanism to increase public safety.		Low	County general funds
Work w/ trade orgs to inform builders/developers of construction techniques and materials that may minimize tornado/ high wind damage to residential/ commercial structures.	2020	Ongoing	The County continues to work with contractors in regards to utilizing construction techniques and materials that may minimize tornado/ high wind damage		High	New and Existing	Office of Emergency Preparedness function within County ordinances and codes	Department of Emergency Preparedness/County	Ongoing	Low/no cost mechanism to increase public safety.		Low	County General Funds
Encourage construction of community tornado shelters in office complexes, factories, apt complexes, schools mobile home parks, stadiums, and other large population congregation centers.													

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requiring the construction of tornado shelters in new buildings where people live, work or congregate.	2010	Deleted	The County currently does not have regs. requiring compliance										
Offer residential/ commercial builders/developers tax incentives to construct safe rooms/community shelters in new public facilities.	2010	Deleted	The County does not have tax incentives for residential/construction code requirements										
Work with chambers of commerce, school districts, corporations, etc. to promote benefits of safe rooms.	2020	Ongoing	The Jackson County Department of Emergency preparedness continues to promote the benefits of safe rooms through citizens training in Severe Weather classes at no cost. Also addressed schools districts in Eastern Jackson County and many corporate facilities	Structure and Infrastructure Projects	High		Office of Emergency Preparedness function within County ordinances and codes	Department of Emergency Preparedness/County	Ongoing	Low/no cost mechanism to increase public safety.		Low	County General Funds
Increase capabilities to provide mass notifications to the public	2020	Ongoing											
Adding "Outdoor Warning Sirens" to increase warning notification coverage for County lake properties / Jacomo/Blue Springs/Longview and assess and install additional sirens as appropriate to warn the public.	2020	Ongoing											
Increase public awareness and understanding the benefits of "safe rooms."	2020	Ongoing											
Develop, distribute informational materials on safe rooms.	2020	Ongoing	Implemented through the Counties preparedness educational and outreach program with emphasis on existing shelter facilities located throughout the county	education and Awareness Programs	High	Existing	Office of Emergency Preparedness function within County ordinances and codes	Department of Emergency Preparedness/County	Ongoing	Low/no cost mechanism to increase public safety.		Low	County General Funds
<b>Flooding</b>													
Discourage new development in floodplains and flood-prone areas and improve safety for the traveling public from flash floods across roadways.													
** Adopt ordinances prohibiting residential and commercial development in flood plains or flood-prone areas.	2020	Ongoing	Flood Plan management continues to enforce and recommend changes to meet FEMA requirements and regulations				Flood Plan Management, Public Works and Emergency Preparedness addressing FEMA NFIP requirements	Flood Plan Management/Public Works	Ongoing	Low/no cost mechanism to increase public safety.		Low	County General Funds
**As low water crossings are identified and evaluated, seek funding to redesign and construction roadway segments to reduce further risks to travelers.	2020	Ongoing											

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**Develop or amend comprehensive and/or land use plans to specifically address development in flood-prone areas and recommend strategies for decreasing the jurisdiction's vulnerability to flooding.	2020	Ongoing	County's Flood Plan manager continues to enforce and recommend changes to meet FEMA requirements and regulations		High	Existing	Flood Plan Management, Public Works and Emergency Preparedness addressing FEMA NFIP requirements	Flood Plan Management/Public Works	Ongoing	Low/no cost mechanism to increase public safety.		Low	County General Funds
**Identify low water crossings along roadways in unincorporated Jackson County	2020	Ongoing	In progress; as identified putting up signage	planning	medium			Flood Plain Management/Public Works/Emergency Preparedness					
Levy fees on new residential, commercial and infrastructure development in floodplains or flood-prone areas to finance flood mitigation, preparedness, response and recovery actions.	2010	Deleted	Not a county function										
Enhance public awareness and education efforts related to flooding.													
Encourage home owners and businesses to purchase flood insurance.	2020	Ongoing	The County Office of Emergency Preparedness has several outreach programs to Encourage home owners and businesses to purchase flood insurance.		High	New and Existing	Flood Plain Management, Public Works and Emergency Preparedness addressing FEMA NFIP requirements	Flood Plain Management/Public Works	Ongoing	No/low cost mechanism to encourage flood preparedness.		Low	County's general funds and EMPG program grant monies
Obtain brochures and related publications on flood mitigation, preparedness, response and recovery from FEMA, SEMA, the American Red Cross and other organizations and provide them to home owners and businesses in flood-prone areas.	2020	Ongoing	The County's Office of Emergency Preparedness and Public Works Departments have on-going program to educate the public about flooding and its associated hazards. This program includes standardized educational materials coordinated with local and regional partners. This initiative includes brochures and related publications on flood mitigation, preparedness, response and recovery from FEMA, SEMA, the American Red Cross, NFIP and other organizations.		High	New and Existing	Flood Plan Management, Public Works and Emergency Preparedness addressing FEMA NFIP requirements	Flood Plan Management/Public Works	Ongoing	No/low cost mechanism to encourage flood preparedness.		Low	County's general funds and EMPG program grant monies

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Partner with emergency services, public health, human services organizations, appropriate state and federal agencies and the business community to conduct special public education events, such as a Flood Mitigation and Preparedness Workshop.	2020	Ongoing	The County's Office of Emergency preparedness and Public Works Departments have on-going program to educate the public about flooding and its associated hazards. This program includes standardized educational materials coordinated with local and regional partners. County department also participate in local, regional, state and national public educational events such as Safety City and Echo- Fest put on by local jurisdictions throughout the county each year.		High	New and Existing	Flood Plan Management, Public Works and Emergency Preparedness addressing FEMA NFIP requirements	Flood Plan Management/Public Works	Ongoing	No/low cost mechanism to encourage flood preparedness.		Low	County's general funds and EMPG program grant monies
<b>Examine repetitive flood loss properties in each county and determine feasible and practical mitigation options.</b>													
**As funding allows, repetitive flood loss properties and structures will be targeted for buyout.	2020	Ongoing	Repetitive Loss properties in the unincorporated portions of the County in Flood Plain Hazard areas are reviewed for buyout potential.		High	Existing	Public Works and Emergency Preparedness function within approved County ordinances and codes	Public Works / emergency Preparedness	Ongoing	High initial cost of purchasing property but also high returns by preventing future flooding of properties that have had history of major flood damages		High	Hazard Mitigation Grants
**Identify potential funding opportunities to implement mitigation options for repetitive flood loss properties.	2020	Ongoing	The County continually tries to identify potential funding sources to mitigate flood losses to repetitive properties. This sources include private, local, state and federal grants. County has identified repetitive loss areas and residences and continues to work with them in ways to prevent or reduce future flood losses		High	Existing	Public Works and Emergency Preparedness function within approved County ordinances and codes	Jackson County Public Works	ongoing	Low/no cost mechanism to increase public safety and help prevent the high cost of flood damages		Low	Mitigation grants
**With stakeholders, explore incentive options to encourage property owners to take action to prevent or reduce future flood losses	2020	Ongoing	County continues to work with local jurisdictions, Public Works and Parks and Rec to assess needs and mitigation options		High	Existing	Public Works and Emergency Preparedness function within approved County ordinances and codes	Flood Plain Management/ Public Works/Emergency Preparedness	Ongoing	Preventing future flooding of properties that have had history of flood damage		Low	County General funds and EMPG funding/ County General Funds along with grant funding such as HMPG, PDM, FMA
<b>Implement or improve flood warning systems.</b>													
**Work with owners of repetitive flood loss properties to identify feasible mitigation strategies and potential opportunities; determine property owners' interest in specific mitigation options.	2020	Ongoing	County continues to work with local jurisdictions, Public Works and Parks and Rec to assess needs and mitigation options		Medium	New	Public Works and Emergency Preparedness function within approved County ordinances and codes	Public Works and Emergency Preparedness	Ongoing	Low/no cost mechanism to increase public safety and help prevent the high cost of flood damages		Low	County General Funds along with grant funding such as HMPG, PDM, FMA

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Determine the need for stream gauges in waterways without flood warning systems or additional stream gauges in waterways with flood warning systems already in-place.	2020	Deferred	Eastern Jackson County utilizes real-time weather and USGS real-time water data for local stream flow conditions which are operated in cooperation with the USGS.		High	New and Existing	Office of Emergency Preparedness and Public Works Department functions within City ordinances and codes	Public Works Department and Office of Emergency Preparedness	Ongoing	Stream gauges are relatively low cost effective measures to warn of flooding events and implement mitigation measures.		Low	County General Funds and EMPG grants
Develop and implement procedures to quickly analyze and disseminate information from flood warning systems to the public.	2020	Deferred	The County uses Flood warning procedures supported by NOAA to acquire real-time flood inundation prediction capability using stream gauge and forecast information.		High	New and Existing	Office of Emergency Preparedness and Public Works Department functions within City ordinances and codes	Public Works Department and Office of Emergency Preparedness	Flood warning procedures supported by NOAA	Will ensure that citizens are prepared real time for flood events.		Low	County General Funds and EMPG grants
Work with local governments and other stakeholders to share data from flood warning systems in multiple jurisdictions.	2020	Deferred	Eastern Jackson County has real time weather data stations that track local activity on a regular basis		High	New and Existing	Office of Emergency Preparedness and Public Works Department functions within City ordinances and codes	Public Works Department and Office of Emergency Preparedness	Ongoing	Data Sharing is a relatively low cost effective measure to warn of flooding events and implement mitigation measures. Sharing of data will improve county floodplain management.		Low	County General Funds and EMPG grants
Improve emergency response during flooding events.		Deferred; depend upon region's technical rescue teams for response	Development of specialized teams to help clean-up flooded homes and businesses to reduce flood damages throughout the County.										
Develop rapid response teams	2020			Planning	Medium	new		Office of Emergency Preparedness and Public Works Department functions within City ordinances and codes	Office of Emergency Preparedness	No/low cost mechanism to reduce flood damages		Low	County General Funds and EMPG grants
Improve flood hazard assessments and flood mapping.			The County currently uses the HAZUS software at for Level One reviews. It is currently exploring the future integration of GIS data to increase the accuracy of flood inundation prediction capabilities in partnership with numerous County departments										
Conduct an in-depth flood risk analysis utilizing HAZUS data and create detailed maps based on GIS technology to identify areas at risk from flooding.	2010	Deleted			High	New and Existing Areas	Flood Plan Management, Public Works and Emergency Preparedness addressing FEMA NFIP requirements	Flood Plan Management/Public Works	Ongoing	Most data readily available and can be easily imported to identify potential areas for increased mitigation efforts.		Low	County's General Funds

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Coordinate the collection of demographic, economic, watershed, land use and other data required by the HAZUS-Flood software program and/or GIS systems.	2010	Deleted	The County currently uses the HAZUS software at for Level One reviews. It is currently exploring the future integration of GIS data to increase the accuracy of flood inundation prediction capabilities in partnership with numerous County departments		High	New and Existing Areas	Flood Plan Management, Public Works and Emergency Preparedness addressing FEMA NFIP requirements	Flood Plan Management/Public Works	Ongoing	Most data readily available and can be easily imported to identify potential areas for increased mitigation efforts.		Low	County's General Funds
**Obtain parcel data (assessed valuation and other information) for flood boundary areas and enhance vulnerability assessments for these areas.	2020	Ongoing	Although flood hazard areas of the County have been mapped with current FEMA flood map digital data that is integrated into county geo-data on a regular basis. The County continues to review flood hazard areas and incorporate necessary changes as needed. The County currently uses the HAZUS software at for Level One reviews. It is currently exploring the future integration of GIS data to increase the accuracy of flood inundation prediction capability's in partnership with numerous County departments		High	New and Existing Areas	Flood Plan Management, Public Works and Emergency Preparedness addressing FEMA NFIP requirements	Flood Plan Management/Public Works	Ongoing	Most data readily available and can be easily imported to identify potential areas for increased mitigation efforts.		Low	County's General Funds
Purchase HAZUS-Flood software from FEMA, possibly in conjunction with other local or regional stakeholders.	2010	Deleted			High	New and Existing Areas	Flood Plan Management, Public Works and Emergency Preparedness addressing FEMA NFIP requirements	Flood Plan Management/Public Works	Ongoing	Most data readily available and can be easily imported to identify potential areas for increased mitigation efforts.		Low	County's General Funds
Integrate flood mitigation strategies with projects and activities designed to (1) protect, restore or enhance ecosystems and the environment and/or (2) create recreational opportunities for the community based on building codes for various jurisdictions and have addressed regularly.													
a. Consider the construction of detention basins, small lakes and greenways or riparian corridors in areas of new development to channel and catch storm water, thereby reducing the likelihood of flooding.	2020	Ongoing	The County continues to reduce flooding hazards in the unincorporated portions of the county through ongoing efforts to channel and catch storm water as funding allows		High	Existing	Public Works and Emergency Preparedness function within approved County ordinances and codes	Parks & Rec/Public Works/Corps of Engineers	Ongoing	Will prevent flooding for moderate costs purchasing property but also high returns by preventing future flooding of properties that have had history of major flood damages		Medium	Mitigation grant funding
b. In concert with existing comprehensive and land use plans, develop a strategy for acquiring flood-prone property for use as open space or park land.	2020	Ongoing	The County will continue to look for funding opportunities to remove targeted repetitive loss properties for use as open space land.		High	New and Existing	Public Works and Emergency Preparedness function within approved County ordinances and codes	Department of Emergency Preparedness/County and Public Works Department	Open			High	Local Jurisdictional funding sources and government incentives



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c. Identify funding sources for the acquisition of flood-prone land for environmental, recreational and flood mitigation uses.	2020	Ongoing	The County consistently continues to apply for State and Federal grants to support and enhance flood mitigation and prevention programs. Recently walking and bicycle trails have been developed in flood prone area. The county encourages local jurisdictions within the county to do the same. This includes identifying funding sources for the acquisition of flood-prone land for environmental, recreational and flood mitigation uses.	High	Existing	Local Public Works and Water Pollution Control districts	Public Works	Ongoing	Medium initial cost to preventing future flooding of properties that have had history of flood damage	Medium	County general funds		
d. Consider alternative uses for floodplains and flood-prone areas, such as sports fields, parks, wildlife habitats, etc.	2020	Ongoing	The county continues to work with DNR and Conservation groups to implement "Green Plans" and other alternative uses of flood prone areas. The County's Public Works and Emergency Preparedness Departments works with property owners and other stakeholders to develop and implement flood mitigation strategies which promotes protection of fish and wildlife habitats	High	Existing	Public Works, Parks & Rec and Emergency Preparedness Department functions within approved County ordinances and codes	Department of Emergency Preparedness/County and Public Works Department	Ongoing	Medium initial cost to preventing future flooding of properties that have had history of flood damage	Medium	County general funds and grants resources		
e. Work with area environmental groups, property owners and other stakeholders to develop and implement flood mitigation strategies that also promote the restoration and/or sustainability of fish and wildlife habitats	2020	Ongoing	The County has ongoing programs to educate the public about flooding and its associated hazards. These programs include standardized educational materials coordinated with local and regional partners. County Department also participate in local, regional, State and national public educational events put on by the local jurisdictions throughout the County each year.	High	Existing	Public Works and Emergency Preparedness Department functions within approved County ordinances and codes	Department of Emergency Preparedness/County and Public Works Department	Ongoing	Medium initial cost to preventing future flooding of properties that have had history of flood damage	Medium	County general funds and grant applications		
f. Develop partnerships between regional emergency management, floodplain management and environmental groups to educate one another and the public of the benefits of collaboration and identify specific programs and activities that can be developed and implemented jointly. Participate in, and ensure compliance with, flood mitigation and floodplain management programs.	2020	Ongoing		High	New & Existing	Numerous County Department functions within approved County ordinances and codes	Department of Emergency Preparedness/County	Ongoing	Low/no cost mechanism to increase public safety.	Low	County general funds		

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**Obtain the latest copies of flood insurance rate maps (FIRMs), floodplain maps and similar documents.	2020	Ongoing	The County continues to maintain up-to-date flood maps and tracks any LOMR etc.		High	New and Existing	Office of Emergency Preparedness and Public Works Department: functions within City ordinances and codes	Office of Emergency Preparedness	Ongoing	Having and maintaining most current FIRM map editions will allow for most accurate review of floodplain management.		Low	City General Funds
**Participate in the National Flood Insurance Program (NFIP) and Community Rating System (CRS). Reduce flood losses within the County.	2020	Ongoing	The County has adopted the NFIP regulations and continues to participate in the program completing mandatory maintenance as required by program regulations.		High	New and Existing	Flood Plan Management, Public Works and Emergency Preparedness addressing FEMA NFIP requirements	Flood Plan Management/Public Works	Ongoing	Will ensure flood insurance is available for homeowners and businesses to control flooding costs.		Low	City General Funds
Facilitate river flood gates for Fire Prairie Creek, Levasy, MO	2015	Deleted	Help facilitate the design and implementation of flood gate to prevent flooding events that occur on a regular basis.	Structure and Infrastructure Projects	Medium	new	Office of Emergency Preparedness and Public Works Department: functions and levee ordinances and codes	City of Levasy and County Department of Emergency Preparedness	Ongoing	No/low cost mechanism to reduce flood damages		Low	County General Funds and EMPG grants
Reduce flood-related damage to public, residential and commercial property in flood-prone areas through structural and nonstructural retrofits or removal of property.													
**Elevate public facilities in flood-prone areas. Encourage home owners and businesses to elevate their structures.	2020	Ongoing	The County constantly tries to identify potential funding sources to mitigate flood losses to repetitive properties by encouraging owners and businesses to elevate their structures in flood prone areas		High	Existing	Flood Plan Management, Public Works and Emergency Preparedness addressing FEMA NFIP requirements	Department of Emergency Preparedness/County and Public Works Department	Ongoing	Initial high cost but prevents future flooding of properties that have had history of high cost flood damage		High	Mitigation grant funding
Encourage homeowners and businesses in flood-prone areas to elevate mechanical systems (i.e., furnaces, hot water heaters, electrical panels, etc.).	2020	Ongoing	The County works with property owners and other stakeholders to develop and implement flood mitigation strategies which promotes protection of these items		High	Existing	Emergency Preparedness, Flood Plan management and Public Works implementing FEMA codes and requirements for flood plans	Department of Emergency Preparedness/County and Public Works Department	Ongoing	Low/no cost mechanism to increase public safety.		Low	County general funds and EMPG
Encourage utility providers to assess their facilities, distribution systems, etc. for vulnerability to flooding and, if necessary, retrofit or modify them to decrease vulnerability.	2020	Ongoing	The County encourages utilities to flood proof infrastructure in unincorporated areas and Local Public Works departments are encouraged to mitigating flood prone streams and corresponding facilities at the local level		High	Existing	Flood Plan Management, Public Works and Emergency Preparedness addressing FEMA NFIP requirements	Department of Emergency Preparedness/County and Public Works Department	Open	While initial cost is high, will reduce recovery and replacement costs from flooding events		High	Private funding

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Encourage water and wastewater districts to elevate vulnerable equipment, electrical controls and other equipment at wastewater treatment plants, potable water treatment plants and pumping stations.	2020	Ongoing	All County departments work to reduce flood damages to infrastructure when designing new projects and mitigate current facilities as funding is available.		High	Existing	Flood Plan Management, Public Works and Emergency Preparedness addressing FEMA NFIP requirements	Department of Emergency Preparedness/County and Public Works Department	On going	While may increase building and development costs, will reduce significant flood impacts		Medium	NFIP CRS program and grant funding
Identify incentives to offer home owners and businesses to remove or retrofit their structures in flood-prone areas.	2010	Deleted	The County constantly tries to identify potential funding sources to mitigate flood losses to repetitive properties by encouraging owners and businesses to retrofit their structures to prevent flooding.		High	Existing	Flood Plan Management, Public Works and Emergency Preparedness addressing FEMA NFIP requirements	Department of Emergency Preparedness/County and Public Works Department	Ongoing	Initial high cost but prevents future flooding of properties that have had history of high cost flood damage		High	Private Sector and City general funds and/or grant funding
<b>Severe Winter Weather</b>													
<i>Enhance public awareness of severe winter weather mitigation and preparedness activities.</i>													
Collect and disseminate public education materials that address winter weather safety, preparedness and mitigation activities.	2020	Ongoing	The County's Office of Emergency Preparedness has an on-going program to educate the public about "All hazards" preparedness and safety. This program includes standardized educational materials that address the hazards of severe winter weather.		High	Existing	Emergency Preparedness working with relief agencies and United Way and 211	Emergency Preparedness	Ongoing	No/low cost mechanism to increase public safety.		Low	City general funds
Develop and conduct a public education and awareness campaign on properly winterizing homes.	2020	Ongoing	The County's Office of Emergency Preparedness has an on-going program to educate the public about "All hazards" preparedness and safety. This program includes standardized educational materials that address the hazards of severe winter weather. Also as new homeowners are registered they receive preparedness materials.		High	Existing	Emergency Preparedness working with relief agencies and United Way and 211	Emergency Preparedness	Ongoing	No/low cost mechanism to increase public safety.		Low	County general funds and EMFG

Mitigation Goals and Action Steps	Plan Year	Status of Project	Status Explanation	Type of Mitigation Activity	Priority	Applies to Community Assets (New/Existing)	Existing Local Planning Mechanism through which the action was/will be implemented	Primary Agency Responsible for Implementation / Administration	Date for Completion	Cost / Benefit Review	Target Capacity	Estimated Cost (\$)	Funding Source
Partner with emergency services, public health and community groups to conduct special public education events, such as a Severe Winter Weather Awareness Day.	2020	Ongoing	The County's Office of Emergency Preparedness has on-going programs to educate the public about "all Hazards" safety including severe winter weather. These programs include standardized educational materials coordinated with local and regional partners. These partners include County Departments, local faith based organizations and many other public and private groups. The Office of Emergency Preparedness also participates in local and regional public educational events such as the Safety City Preparedness show.	High	Existing	Emergency Preparedness and Public Works planning and in place generators for emergency status	Public Works and Emergency Preparedness	Ongoing	No/low cost mechanism to increase public safety.	Low	County general funds		
Provide vulnerable populations with winter weather safety, preparedness and mitigation information.	2020	Ongoing	The County's Office of Emergency Preparedness has an on-going program to educate the public about "All hazards" preparedness and safety. This program includes standardized educational materials that address the hazards of severe winter weather.	High	Existing	Emergency Preparedness working with relief agencies, United Way, 211, MEMC to provide assistance	Emergency Preparedness	Ongoing	No/low cost mechanism to increase public safety.	Low	County general funds and EMPG monies		
Ensure local governments and human services agencies are aware of facilities across the Kansas City area with generators or emergency power that can be used as shelters in the event of severe winter weather.													
Retrofit otherwise suitable existing facilities with generators for emergency power.	2020	Ongoing	The County has numerous shelters that have back-up power, but the county continues to work with existing and future shelter locations to find ways to retrofit them with emergency power.	High	Existing	Office of Emergency Preparedness functions within City ordinances and codes	Office of Emergency Preparedness	Ongoing	Fairly high cost installation price but will ensure continuity of shelter operations.	Medium	Unknown		
Consider the adoption of policies requiring generators or other emergency power systems in the construction of new public facilities and critical health care facilities like dialysis centers.	2020	Ongoing	The County currently does not have any existing regulations, but continues to try and implement these policies	High	Existing	Emergency Preparedness and Public Works planning and in place generators for emergency status	Public Works and Emergency Preparedness	Ongoing	Fairly high cost program to implement but would help ensure continuity of government operations.	High	Unknown		
Increase planning and severe weather coordination between regional partners													

Mitigation Goals and Action Steps	Plan Year	Status of Project	Status Explanation	Type of Mitigation Activity	Priority	Applies to Community Assets (New/Existing)	Existing Local Planning Mechanism through which the action was/will be implemented	Primary Agency Responsible for Implementation / Administration	Date for Completion	Cost / Benefit Review	Target Capacity	Estimated Cost (\$)	Funding Source
Increase CORE4 participation and coordination efforts	2020	Ongoing	Increase the County's support and coordination efforts with the CORE4 group regarding weather warnings, regional decisions and public safety decisions.	Local Plans and Regulations	Medium	New and Existing	Emergency Preparedness and Public Works planning and in place generators for emergency status	Public Works and Emergency Preparedness	Ongoing	No/low cost mechanism to increase public safety.		Low	County general funds
<b>Since traffic accidents account for 70% of injuries related to ice and snow, develop and implement programs to improve road conditions and protect motorists during severe winter weather.</b>													
Budget for the stockpiling of sand, salt and other materials necessary to reduce or eliminate ice on roadways and improve road conditions.	2020	Ongoing	This expense is outlined in the Public Works budget on a yearly basis and funding amount is reviewed every year.		Low	New	Public Works function within Code of Ordinance	Public Works	Ongoing	Will ensure continued open roadways.		Medium	General Fund
In an effort to reduce the number of people on the roadways during periods of severe winter weather, develop and implement "snow day" plans and policies for non-essential personnel and encourage private sector and non-profit employers in the community to stay off the roads.	2020	Ongoing	Along with NWS, the largest jurisdictions (CORE4) have developed an arrangement to coordinate announcements of such "snow days" for governmental employees and continues to work on educating non-governmental organizations on the hazards of employees on roadways during severe winter weather.		Low	New	Public works and law Enforcement function within Code of Ordinance	Public Works	Ongoing	Short-term potential lost productivity will be offset by savings from potential employee injury and also reduce traffic and delays that would otherwise occur.		Low	General Fund
Partner with area local governments to establish a mutual aid system for sand, salt and other materials and their delivery resources (i.e., trucks, crews, etc.).	2020	Ongoing	The County works with MoDOT and other jurisdictions		Medium	New	Public Works function within Code of Ordinance	Public Works	Ongoing	Low cost mechanism to cost share and increase availability of sand stockpiles.		Low	General Fund
Work with area local governments and MARC to develop a regional "pool" of sand, salt and other materials necessary to reduce or eliminate ice on roadways.	2020	Deferred	The County Public works Department works with regional partners regarding salt and sand contracts		Medium	New	Public Works function within Code of Ordinance	Public Works	NA	Low cost mechanism to cost share and increase availability of sand stockpiles.		Low	General Fund
<b>Drought</b>													
<b>Ensure plans and procedures addressing local drought response, drought mitigation and long-term water planning are developed.</b>													
Develop local procedures implementing the provisions of the Missouri Drought Plan.	2020	Ongoing	The County is constantly utilizing local, state and federal programs and guidance regarding long term planning for severe drought.		Medium	New	Office of Emergency Preparedness functions within City ordinances and codes	Office of Emergency Preparedness	Ongoing	Low cost mechanism to support drought response.		Low	County General Funds
Working with MARC, develop drought plans and water conservation programs.	2020	Ongoing	The County is utilizing local programs and guidance and coordinates with MARC regarding water drought and conservation programs in County plans		Medium	New	Office of Emergency Preparedness functions within City ordinances and codes	Office of Emergency Preparedness	Ongoing	Low cost mechanism to support drought response.		Low	City General Funds
<b>Enhance public awareness of drought, drought mitigation, state and local drought response actions and water conservation measures.</b>													

Mitigation Goals and Action Steps	Plan Year	Status of Project	Status Explanation	Type of Mitigation Activity	Priority	Applies to Community Assets (New/Existing)	Existing Local Planning Mechanism through which the action was/will be implemented	Primary Agency Responsible for Implementation / Administration	Date for Completion	Cost / Benefit Review	Target Capacity	Estimated Cost (\$)	Funding Source
Develop and conduct public education and awareness programs on drought mitigation, drought response and water conservation.	2020	Ongoing	County is working with MDNR and local jurisdictions to conduct local public educational programs. This includes supplying literature and conducting presentations at local schools and civic events throughout the County.		Medium	New	Office of Emergency Preparedness functions within City ordinances and codes	Office of Emergency Preparedness	Ongoing	Low cost mechanism to support drought response.		Low	County General Funds
<b>Heat Waves</b>													
Enhance public awareness of the hazards associated with heat waves, precautionary measures and area heat wave mitigation and preparedness activities.													
Collect and disseminate public education materials that address heat wave safety, preparedness and mitigation activities.	2020	Ongoing	The County's Office of Emergency Preparedness has an on-going program to educate the public about "All hazards" preparedness and safety. This program includes standardized educational materials that address the hazards heat waves can cause.		High	Existing	Emergency Preparedness working with local health departments and NOAA	Emergency Preparedness	Ongoing	Low cost mechanism to increase public safety.		Low	County Emergency Preparedness Budget/EMP G
Develop and conduct a public education and awareness campaign on properly weather stripping homes.	2015	Deferred	The County's Office of Emergency Preparedness has an on-going program to educate the public about "All hazards" preparedness and safety. This program includes standardized educational materials that address the hazards heat waves can cause. The educational program also includes information about making residents homes more energy efficient.		High	Existing	Emergency Preparedness working with local health departments and NOAA	Emergency Preparedness	Ongoing	Low cost mechanism to increase public safety.		Low	County Emergency Preparedness Budget/EMP G
Provide vulnerable populations with public education materials that address heat wave safety, preparedness and mitigation activities.	2020	Ongoing	The County's Office of Emergency Preparedness has an on-going program to educate the public about "All hazards" preparedness and safety. This program includes standardized educational materials that address the hazards heat waves can cause.		High	Existing	Emergency Preparedness working with local health departments and NOAA	Emergency Preparedness	Ongoing	Low cost mechanism to increase public safety.		Low	County Emergency Preparedness Budget/EMP G

Mitigation Goals and Action Steps	Plan Year	Status of Project	Status Explanation	Type of Mitigation Activity	Priority	Applies to Community Assets (New/Existing)	Existing Local Planning Mechanism through which the action was/will be implemented	Primary Agency Responsible for Implementation / Administration	Date for Completion	Cost / Benefit Review	Target Capacity	Estimated Cost (\$)	Funding Source
Work with the media to publish special newspaper sections or conduct periodic broadcasts with emergency information on extreme heat.	2020	Ongoing	The City's Office of Emergency Preparedness also participates with the regional Integrated Warning Team. This group is task to bring all organizations with responsibilities regarding severe weather events together to develop more resilient and effective warnings.		High	Existing	Emergency Preparedness working with local health departments and NOAA	Emergency Preparedness	Ongoing	Low cost mechanism to increase public safety.			County Emergency Preparedness Budget/EMP G
Identify at-risk, low income and elderly residents and develop a database and map (or GIS layers) of their places of residence.	2020	Ongoing	The office of Emergency Preparedness is currently exploring ways to get at-risk populations into a GIS database.		High	Existing	Emergency Preparedness working with local health departments to link with Safe Shelter and cooling centers locations	Emergency Preparedness/local health departments	Ongoing	Medium cost method to identify at-risk populations to prevent injury of death		Medium	Unknown
Partner with community service organizations and area businesses to provide air conditioners and/or fans to at-risk groups, low income residents and the elderly.	2020	Ongoing	The Counties Office of Emergency Preparedness has numerous government facilities that are air conditioned and available to residents during times of severe heat conditions. The County also coordinates with the United Ways regional 211 information system to help residents identify local "Cooling Centers"		High	Existing	Emergency preparedness working with local relief agencies and business contacts including United Way	Emergency Preparedness	Ongoing	Low cost mechanism to support resiliency for vulnerable populations during heat waves.		Low	County General Fund
Ensure local governments and human services agencies are aware of air conditioned facilities across the Kansas City metropolitan area that can be used as shelters in the event of a heat wave.													
Partner with MARC, local public health agencies, emergency management agencies, the American Red Cross, Salvation Army and other stakeholders to inventory public, private and non-profit facilities that are air conditioned and can be used as "heat emergency shelters" in the event of a heat wave.	2020	Ongoing	The County works with several local and regional stakeholders to ensure the County and local jurisdictions within the county have numerous "Cooling Centers" open to the public during times of severe heat waves.		High	Existing	Office of Emergency Preparedness and County Health Department functions within City ordinances and codes	Office of Emergency Preparedness	Ongoing	Low cost mechanism to identify mitigation strategies for populations vulnerable to heat waves.		Low	County General Funds

Mitigation Goals and Action Steps	Plan Year	Status of Project	Status Explanation	Type of Mitigation Activity	Priority	Applies to Community Assets (New/Existing)	Existing Local Planning Mechanism through which the action was/will be implemented	Primary Agency Responsible for Implementation / Administration	Date for Completion	Cost / Benefit Review	Target Capacity	Estimated Cost (\$)	Funding Source
Retrofit otherwise suitable existing facilities with air conditioning systems and designate them as shelters for use during heat waves.	2020	Ongoing	Currently the county has numerous shelter sites but efforts to continue increasing shelter facilities implemented through the Counties educational preparedness programs and Faith Based shelter initiative are ongoing. Many of these sites have air conditioning but efforts continue to try and retrofit those shelters that are not climate controlled.		High	Existing	Emergency Preparedness utilizes the Safe Shelter Partnership for cooling centers in addition to the Salvation Army and United Way	Office of Emergency Preparedness	Ongoing	Medium cost mechanism to assure populations vulnerable to heat waves are protected.		Medium	Unknown
<b>Ensure programs and procedures to mitigate, prepare for and respond to heat waves are developed and implemented.</b>													
Develop local heat emergency plans or heat wave annexes to local emergency operations plans.	2020	Ongoing	All weather procedures and plans are continually updated and changed as needed.		High	Existing	Emergency Preparedness working with local health departments to link with Safe Shelter and cooling centers locations	Emergency Preparedness/local health departments	Ongoing	Low cost mechanism to increase public safety.		Low	EMPG and County General Fund
Partner with public safety agencies, local public health agencies and community groups to develop a program to regularly check on elderly, low income and at-risk people in the community during heat waves.	2020	Ongoing	The County has a severe heat plan that coordinates with public and private agencies to check on at-risk populations in the unincorporated areas of the county. This is an on-going program continually identifying additional partners such as CERT, VIPs and faith based organizations.		High	Existing	The county links with the severe weather plan that coordinates with the local health departments	Emergency Preparedness	Ongoing	Low cost mechanism to increase public safety.		Low	EMPG and County General Fund
Temporarily reduce or eliminate fees for public swimming pools during extended periods of extreme heat and humidity.	2010	Deleted	Not a county function										
Work with community groups to sponsor a program to encourage people to think of those who require special assistance (this effort can be incorporated into Neighborhood Watch, CERT or similar programs).	2020	Ongoing	The County has a severe heat plan that coordinates with public and private agencies to check on at-risk populations in the unincorporated areas of the county. This is an on-going program continually identifying additional partners such as CERT, VIPs and faith based organizations.		High	Existing	Emergency Preparedness working with Safe Shelter Partnerships FBO	Emergency Preparedness	Ongoing	Low cost mechanism to increase public safety.		Low	EMPG and County General Fund
<b>Increase communication and planning capabilities between Public Safety agencies.</b>													



Mitigation Goals and Action Steps	Plan Year	Status of Project	Status Explanation	Type of Mitigation Activity	Priority	Applies to Community Assets (New/Existing)	Existing Local Planning Mechanism through which the action was/will be implemented	Primary Agency Responsible for Implementation / Administration	Date for Completion	Cost / Benefit Review	Target Capacity	Estimated Cost (\$)	Funding Source
Develop a communication network between Emergency Management Agencies, Health Departments throughout the County, with the Jackson County Medical Examiners Office	2015	Deferred	Establish a dedicated communications and planning group between public safety, health departments and emergency management agencies within the county	Local Plans and Regulations	Medium	New & Existing	Emergency Preparedness working with local health departments, public safety and medical examiner's office	Emergency Preparedness	Ongoing	Low cost mechanism to increase public safety.			County Emergency Preparedness Budget/EMP G
<b>Dam Failures</b>													
<i>Enhance public awareness of the hazards associated with dam failures, as well as mitigation and preparedness activities.</i>													
Collect and disseminate public education materials that address dam safety, preparedness and mitigation activities.	2010	Ongoing	The County's Office of Emergency Preparedness has an on-going program to educate the public about "All hazards" preparedness and safety. This program includes standardized educational materials that address the hazards of dam failures.		High	Existing	Office of Emergency Preparedness, within City ordinances and codes	County's Office of Emergency Preparedness	Ongoing	Low cost mechanism to increase public safety.			County General Funds
Conduct a public education campaign to inform dam owners and citizens living near the inundation pathways of dams about the need to properly maintain and upgrade these structures, particularly those that are more than 50 years old.	2010	Ongoing	The County's Office of Emergency Preparedness has an on-going program to educate the public about "All hazards" preparedness and safety. This program includes standardized educational materials that address the hazards of dam failures.						Ongoing				
Provide property owners in or near the inundation pathways of dams with information on dam safety, preparedness and mitigation activities.	2010	Ongoing	The County's Office of Emergency Preparedness has an on-going program to educate the public about "All hazards" preparedness and safety. This program includes standardized educational materials that address the hazards of dam failures.		High	Existing	Office of Emergency Preparedness, within City ordinances and codes	County's Office of Emergency Preparedness	Ongoing	Low cost mechanism to increase public safety.			County General Funds
Work with MDNR and USACE to conduct a public education campaign to inform citizens living near the inundation pathways of dams of the need to be familiar with the emergency action plans for these dams.	2010	Ongoing	The County's Office of Emergency Preparedness has an on-going program to educate the public about "All hazards" preparedness and safety. This program includes standardized educational materials that address the hazards of dam failures.		High	Existing	Office of Emergency Preparedness, within City ordinances and codes	County's Office of Emergency Preparedness	Ongoing	Low cost mechanism to increase public safety.			County General Funds
<i>Improve warning and evacuation systems and procedures in the event of dam failure.</i>													

Mitigation Goals and Action Steps	Plan Year	Status of Project	Status Explanation	Type of Mitigation Activity	Priority	Applies to Community Assets (New/Existing)	Existing Local Planning Mechanism through which the action was/will be implemented	Primary Agency Responsible for Implementation / Administration	Date for Completion	Cost / Benefit Review	Target Capacity	Estimated Cost (\$)	Funding Source
Adopt policies, codes or ordinances discouraging development in the vicinity of dam inundation zones.	2010	Ongoing	The County continues to work with local jurisdictions to discourage development in the vicinity of dam inundation zones.		Medium	Existing	Parks & Rec/Public Works/Corps of Engineers working with MDNR to maintain safety building codes to dam inundation zones	Parks & Rec/ Emergency Preparedness	Ongoing	Low cost mechanism to increase public safety.		Low	County General Funds
<b>Reduce the potential for dam failures by enhancing inspection efforts.</b>													
Adopt codes or ordinances requiring permits, engineering studies and safety certifications prior to the construction of new dams.	2020	Ongoing							Ongoing				
Adopt local ordinances and/or state laws requiring all dam owners do develop emergency action plans for their dams and provide local public safety agencies with copies of these plans.	2020	Ongoing							Ongoing				
For dams not regulated by the state, encourage dam owners to inspect their dams at least annually and submit the results of these inspections to MDNR.	2020	Ongoing							Ongoing				
Encourage the state to provide MDNR's Water Resources Program with funding necessary to regularly inspect all significant and high hazard dams in the state.	2020	Ongoing							Ongoing				
<b>Severe Thunderstorms</b>													
<b>Increase severe weather warning capabilities.</b>													
Increase volunteer local weather spotter capability	2015	Ongoing	Development of a countywide home spotter network increasing weather spotters by a minimum of 50 volunteers	Local Plans and Regulations	Medium	new	Office of Emergency Preparedness, within City ordinances and codes	County's Office of Emergency Preparedness	Ongoing	Low cost mechanism to increase public safety.		Low	County General Funds
Increase weather radio distribution	2015	Completed	Increase the use of weather radios by general public and businesses throughout the county	Education and Awareness Programs	Medium	existing	Office of Emergency Preparedness, within City ordinances and codes	County's Office of Emergency Preparedness	Ongoing	Low cost mechanism to increase public safety.		Medium	Unknown
Increase weather training effectiveness	2015	Ongoing	Develop advanced spotter training classes increasing the level of training weather spotters receive	Local Plans and Regulations	Medium	existing	Office of Emergency Preparedness, within City ordinances and codes	County's Office of Emergency Preparedness	Ongoing	Low cost mechanism to increase public safety.		Low	County General Funds
<b>Levee Failures</b>													
<b>Improve levee warning systems.</b>													
Increase accuracy and timely data release from COE regarding water levels on levees throughout the County	2015	Ongoing	Develop methods to accurately know height and length of time water sits on levees	Structure and Infrastructure Projects	Medium	existing	Office of Emergency Preparedness, within City ordinances and codes	County's Office of Emergency Preparedness	Ongoing	Relatively low cost mechanism to increase public safety warnings regarding levee failures.		Low	County General Funds

## FOREWORD

To Residents of the Kansas City Region:

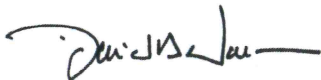
Since its beginnings in the early 1800s, the Kansas City metropolitan area has experienced the adverse effects of natural disasters. Historical records indicate that natural hazards, particularly floods and tornadoes, have had a profound effect on the region. Unfortunately, there is no way to prevent disasters from occurring. The impact of disasters, however, can be mitigated. Their effects can be lessened and losses reduced through the development and application of prudent hazard mitigation strategies and actions. In doing so, the Kansas City metropolitan area can be made to be a safer place to live, work and play.

As of November 1, 2004, all local governments must have an approved hazard mitigation plan to be eligible to apply for and receive certain funds under this program. This FEMA program provides funds to communities to mitigate the impact of natural disasters, such as floods and tornadoes. MARC, at the request of SEMA and in partnership with the Missouri Association of Councils of Government (MACOG), has developed this *Regional Multi-Hazard Mitigation Plan* to assist the local governments, school districts, businesses, community groups and citizens of Cass, Clay, Jackson, Platte and Ray counties with hazard mitigation planning, implementation and evaluation. This plan addresses priority natural hazards that have in the past and may in the future affect the Kansas City region, including tornadoes; floods and dam and levee failures; severe winter weather, drought, heat and wildland fires; and severe thunderstorms and storm winds and hail.

Hazard mitigation is a dynamic and ongoing process. This plan is a continuation of the mitigation planning work begun in 2003; it provides a framework for hazard mitigation planning, both regionally and locally. This plan will be reviewed and updated at least annually to determine the effectiveness of mitigation actions; reflect changes in laws, regulations and/or policies; re-prioritize mitigation actions, if necessary; and consider other issues affecting hazard mitigation in the Kansas City metropolitan area.

MARC, as the facilitator of this mitigation planning effort, welcomes your comments and suggestions for improving this plan. Please direct your comments and suggestions to the Mid-America Regional Council, 600 Broadway, Suite 200, Kansas City, MO 64105 or [info@marc.org](mailto:info@marc.org).

Sincerely,



David A. Warm  
Executive Director

## Executive Summary

The purpose of hazard mitigation is to reduce loss of life and property by lessening the impact of natural, man-made and technological disasters. Hazard mitigation plans form the foundation for a community's long-term strategy to reduce disaster losses and break the cycle of disaster damage and reconstruction. Cass, Clay, Jackson, Platte and Ray counties and participating jurisdictions developed a *Regional Multi-Hazard Mitigation Plan* that was approved by the Federal Emergency Management Agency (FEMA) in August of 2015. The plan was prepared pursuant to the requirements of the Disaster Mitigation Act of 2000 (DMA 2000). In accordance with DMA 2000 requirements, Cass, Clay, Jackson, Platte and Ray counties and participating jurisdictions must update the plan every five years. In 2015, the *Regional Multi-Hazard Mitigation Plan* was updated, ensuring the continuity of federal mitigation project grant funding through May of 2020.

The *Regional Multi-Hazard Mitigation Plan* is a multi-jurisdictional plan that represents a number of local governments within the Kansas City region. The following local governments and school districts participated in plan development and are represented by the plan through formal adoption:

### Cass County

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

### Clay County

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

### Jackson County

Blue Springs  
Grandview  
Greenwood  
Independence  
Kansas City, Mo.  
Lee's Summit  
Oak Grove  
Raytown  
Central Jackson County FPD  
Sni Valley Fire Protection District  
Blue Springs School District  
Fort Osage R-1 School District  
Grain Valley School District  
Independence School District  
Kansas City School District  
Lee's Summit School District  
Oak Grove R-VI School District  
Metropolitan Community Colleges

### Platte County

Dearborn  
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

### Ray County

Richmond

The planning process followed the methodology prescribed in FEMA publications *Local Mitigation Planning Handbook* (March 2013) and *Multi-Jurisdictional Mitigation Planning* (August 2006), beginning with the formation of a Regional Multi-Hazard Mitigation Plan Review Subcommittee (HMPC) comprised of key stakeholders from Cass, Clay, Jackson, Platte and Ray counties and participating jurisdictions. The HMPC reviewed each section of the plan, including the planning process, risk assessment, mitigation strategy and plan maintenance. Revisions were made as appropriate to ensure the plan reflects current vulnerability within each jurisdiction.

The goals of the *Regional Multi-Hazard Mitigation Plan* are:

Prevention:

- Develop, implement and improve hazard assessment information to prevent hazards from impacting the community where possible.

Protection of Life and Property:

- Implement activities that help to protect lives and property by making homes, businesses, public and private buildings, and other structures more resistant to the effects of hazards.

Natural Resources Protection:

- Preserve, rehabilitate and restore wetlands and other natural areas to serve hazard mitigation purposes. Minimize negative effects of disasters on the environment.

Integration with Emergency Services:

- Enhance local and regional emergency planning, operations and training through collaboration and coordination among local, state and federal government agencies, business and industry, and community groups. Integrate and coordinate hazard mitigation activities with emergency operations plans and procedures.

Increasing Public Awareness:

- Develop and conduct public education and outreach programs to increase awareness of the risks associated with hazards in the Kansas City area.
- Provide local governments, community groups, businesses and residents with information on opportunities for partnerships, funding, tools and related mechanisms to help communities implement mitigation activities.

To meet plan goals, mitigation actions have been identified and are discussed in Section 4: Mitigation Strategy. Social, technical, administrative, political, legal, economic and environmental factors were considered when identifying and prioritizing mitigation actions. New online tools were developed as part of this plan update. Those tools will enable local jurisdictions to review their information each year and make updates to support the next plan process.

The *Regional Multi-Hazard Mitigation Plan* will be updated again in five years, by 2025.

The **2020 Multi-Jurisdictional Hazard Mitigation Plan for Cass, Clay, Jackson, Platte and Ray counties** has been prepared with input from local government, school district and other community stakeholders and the public. The draft plan is posted on the Mid-America Regional Council website at <https://www.marc.org/Emergency-Services-9-1-1/MEMC/Activities/2020-Hazard-Mitigation-Plan>

Participating jurisdictions must adopt the plan, which includes an analysis of their jurisdictions' risk to natural hazards and goals and actions that the jurisdictions have identified to take over the next 5 years to mitigate impacts from such disasters. Each participating jurisdiction's governing body must adopt the plan prior to its submission to FEMA by May 1, 2020. The following is a sample resolution.

## Sample Resolution

(LOCAL GOVERNING BODY/SCHOOL DISTRICT), Missouri RESOLUTION NO. \_\_\_\_\_

A RESOLUTION OF THE (LOCAL GOVERNING BODY /SCHOOL DISTRICT) ADOPTING THE (PLAN NAME)

WHEREAS the (local governing body/school district) recognizes the threat that natural hazards pose to people and property within the (local community/school district area); and

WHEREAS the (local governing body/school district ) has participated in the preparation of a multi-jurisdictional local hazard mitigation plan, hereby known as the 2020 Multi-Jurisdictional Hazard Mitigation Plan for Cass, Clay, Jackson, Platte and Ray counties, hereafter referred to as the *Plan*, in accordance with the Disaster Mitigation Act of 2000; and

WHEREAS the *Plan* identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the (local community/school district area) from the impacts of future hazards and disasters; and

WHEREAS the (local governing body) recognizes that land use and other policies have a major impact on whether people and property are exposed to natural hazards, the (local governing body/school district) will endeavor to integrate the *Plan* into the comprehensive and/or strategic planning process; and

WHEREAS adoption by the (local governing body/school district) demonstrates their commitment to hazard mitigation and achieving the goals outlined in the *Plan* and affirms that the Plan will be updated no less than every five years; and

WHEREAS the final draft plan prepared by the Mid-America Regional Council has been reviewed by SEMA and is expected to be approved by FEMA.

NOW THEREFORE, BE IT RESOLVED BY THE (LOCAL GOVERNMENT/SCHOOL DISTRICT), in the State of Missouri, the (local governing body/school district) adopts the final draft *Plan*.

ADOPTED by a vote of \_\_\_ in favor and \_\_\_ against, and \_\_\_ abstaining, this day of \_\_\_\_\_, 2020.

By (Sig): \_\_\_\_\_

Print name: \_\_\_\_\_