

SECTION 3

CITY/COUNTY CAPABILITY ASSESSMENT

Note: Updates to section 3 including updating current existing plans used by county and including school information and practices. Each jurisdiction did a review and sent in more current information that was applicable. Also added were grant funding information.

Mitigation Management Policies

The Joplin/Jasper County Emergency Management Agency is in charge of preparation for emergency and/or disastrous incidents and events. This duty includes the writing of an Emergency Operations Plan, coordinating intergovernmental emergency response and preparedness agencies, and implementing measures identified in the Emergency Operations Plan that increase preparedness and reduce response times. The Joplin-Jasper County Emergency Management Agency generally encourages cooperation of jurisdictions on all disaster response and preparedness.

Existing Plans

Joplin/Jasper County Emergency Management Agency has finished updating its Emergency Operations Plan to conform to the Federal mandate of revising and incorporating Catastrophic Events, Agro-Terrorism/Animal Emergency, and Special Needs Population issues into the plan (September of 2009). The Joplin/Jasper County Emergency Operations Plan identifies facilities of specific importance which require special protection and/or attention in case of a hazardous event. The plan also develops and maintains mutual assistance agreements among the various and overlapping agencies, participates in exercises and drills to maintain awareness, develops procedures to circumvent transportation and utility closures, and identifies vulnerability with the existing civic infrastructure.

The National Incident Management System (NIMS) has been adopted by Jasper County and all cities and villages within the County. All emergency responses to disasters, large or small, are conducted utilizing NIMS procedures.

Each school within the county has its own Emergency Operations Plan. Yearly, local school districts reassess risks and incorporate those risks and mitigation strategies into their plan. Drills, such as for tornadoes and intruder, are practiced regularly within the school year to assist in better response time.

Mitigation Programs

The majority of Hazard Mitigation Planning places emphasis on floodplain management regulations and the participation in the National Flood Insurance Program (NFIP). As identified in the Community Profile Section of this plan, not every municipality or incorporated area has floodplain regulations. Other mitigation measures conducted throughout Jasper County include:

- Geographic Information Systems (GIS) have facilitated the development of mapped floodplain areas, but they are currently not respected throughout the County. Many property owners in the County participate in the NFIP.
- Community Emergency Response Team training for the general public has been ongoing for the past two (2) years throughout Jasper County. This program has been very effective in increasing public awareness and preparedness. The training includes first aid, basic firefighting, basic search and rescue, and disaster psychology.
- The School Districts of Jasper County have done extensive planning a training of both staff and students to be better prepared in the event of any disaster situation to include severe storms, fires, and on campus intruders.
- The County receives NWS (National Weather Service) warnings and alerts needed officials and emergency responders. Many residents have NWS radios and several cities have sirens.
- The County has developed a reverse 911 system that has calling capability to affected areas for storm and other hazard warnings with a message that describes the situation and instruction on what protective actions a resident should take.

Capabilities (Organization, Staffing, Training, Etc.)

The Capability of emergency response, fire protection, law enforcement, and emergency medical services are outlined in the Community Profile Section of this Hazard Mitigation Plan.

The Emergency Operations Center of Jasper County 911 located in Carthage is in congruence with FEMA EOC standards as is the Emergency Operations Center located in Joplin. Both have communications capabilities as well as the ability to support emergency operations. Per the Local Emergency Operations Plan, the EOC in Joplin is designated as the primary EOC location. Local risk assessments are incorporated into the Local Emergency Operations Plan and are factored into planned exercises conducted throughout the year. Local planning incorporates risk assessments as they are identified.

Cities and the County have extensive mobile and fixed communication abilities to coordinate the scene of an emergency. Local and County participation in regional Homeland Security meetings and training have greatly improved the coordination of the local agencies to address emergencies.

There is adequate fire, police, rescue, mass care, emergency medical, and information equipment available to city and county agencies. The Regional Homeland Security Oversight Committee Region D has promoted inter-disciplinarily efforts for several years and has made regional equipment and personnel readily available. Region D has encouraged many cities to sign mutual aid agreements which speed response time.

Joplin is a regional medical center and there are substantial medical response services available in and near Joplin.

The Emergency Management Agency director has received training in professional development, emergency response planning, emergency response operations, exercises, disaster response and recovery, and disaster mitigation. Emergency response personnel, EOC staff, and volunteer staff have also received adequate training in emergency response. Overall, there has been good quality training, education, and awareness initiatives for Hazard Mitigation.

Responsibilities and Authorities

City and County governments should have the following:

- The legal basis for authorization to order mandatory evacuation, redirect funds for emergency use, order a curfew, and commandeer facilities and/or equipment and materials;
- Authorized lines of succession for the chief elected officials with the authority to initiate necessary emergency activities;
- Substantially safeguarded vital records, although limited to records needed to reconstitute local government;
- A substantial analysis of the possible impacts of potential disasters;
- A multi-hazard emergency operations plan;
- An Emergency Alert System approved by the Federal Communications Commission;
- Increases number of completed mutual aid agreements with neighboring jurisdictions; and
- Substantial protection of people with special needs.

Intergovernmental and Interagency Coordination

The Joplin/Jasper County Emergency Management Agency participates in several area meetings monthly, and serves to sustain coordination and responsibility among fire, law enforcement, emergency medical, and public health officers from incorporated areas and adjacent jurisdictions. Through the RHSOC, intergovernmental coordination has been expanded. Also, several cities have signed mutual aid agreements outlining available help and costs.

Vulnerability Assessment Overview

The local governments and County are committed to a comprehensive Hazard Mitigation Program as stated and committed by their passage of resolutions approving this planning document. Through the course of the planning process, stakeholders have been educated of the hazards and the opportunities that this planning process will bring to the region to reduce loss of life and property.

The hazard mitigation policies of relevance to this hazard mitigation plan are floodplain ordinances, stormwater ordinances, environmental contamination ordinance in the EPA mitigated areas and no-burning ban ordinances during certain periods of the dry season. Most of these burning bans pertain directly to Clean Air Act regulations, but are relevant to the mitigation of wildfires. These are in place at the county level and have been adopted by several cities, as well.

Vulnerability Assessment of County Policies and Development Trends

Commitments to a Comprehensive Mitigation Program

Jasper County has a history of striving to protect the life and property of the public. In the aftermath of the May 4, 2003 tornadoes, the County has strengthened mitigation measures and policies, along with response coordination. On a comprehensive basis, the County maintains and regularly updates the Emergency Operations Plan that includes mitigation measures for all hazards, natural and manmade. The Joplin/Jasper County Emergency Operations Plan was just recently updated in 2009 to incorporate and update response to Catastrophic Events, Agro-Terrorism/Animal Emergency, and Special Needs Population issues.

County Laws, Regulations and Policies Related to Development in Hazard Prone Areas

The Jasper County floodplain ordinance is based on policies to protect the general welfare and health of county residents and visitors. The ordinance is designed to safeguard health, safety, and property in times of flood by regulating construction in the floodplain.

The Jasper County stormwater regulations are designed to minimize the negative effects of stormwater runoff caused by development. The regulations outline proper mitigation measures for erosion, detention, discharge, and conveyance of stormwater.

The Jasper County Environmental Contamination ordinance is based upon recommendations by EPA in areas of Superfund cleanup. The Ordinance requires soil testing for regulated contaminants on Superfund designated properties associated with new construction of a dwelling, dwelling unit or other child occupied facility or recreational area. The ordinance also requires that all existing wells be tested for metals when the property is transferred or sold.

County Laws, Regulations and Policies Related to Hazard Mitigation in General

Jasper County currently has no county zoning. It does control building within the floodplain and controls stormwater through the building permit venue. It also controls burning during certain periods of the dry season.

How Local Risk Assessments Are Incorporated and Prioritized Into Local Planning

Riverine is the most reoccurring impact on the County, and an independent floodplain regulation exists among the body of other regulations. Flash flooding is also a concern in the area. Stormwater regulations for the County have been written to adequately accommodate runoff from new development.

Jasper County also recognizes the danger and economic impacts of severe storms, tornadoes, and severe winter storms. Clearing snow is a moderate priority for the County due to a lack of extensive and prolonged winter weather conditions in the area.

A majority of the communities in Jasper County consider tornadoes their biggest issue, followed by ice storms. When planning for water project upgrades or sewer upgrades, several cities are making generator installations a part of the project to be able to provide the needed utilities during those difficult times. Also on several city and school projects, are building saferooms for tornado protection.

Current Criteria Used To Prioritize Mitigation Funding

Funding for mitigation measures is based on the combination of predicted damage to property and death/injury impacts. For example, certain areas are traditionally prone to flash flooding. Most natural disasters occur sporadically, like tornadoes, and the repetitive loss is hard to concentrate into specific geographical areas like a floodplain. Mitigation has not extensively been used in the area, but initiatives have been based on a case-by-case applicant basis.

Mitigation also becomes a concern with the rate, density, and intensity of development in the County. With the expansion of city limits and population areas, growth can stretch the city and county infrastructure and emergency measures.

Integration of Hazard Mitigation with the City/County Departments' Plans

The Joplin/Jasper County Emergency Management Agency committee includes representatives from county and city fire, law enforcement, emergency medical, and health organizations. All communities within Jasper County are recognized within the Emergency Operations Plan, but some communities have devised or wish to devise their own EOPs based on the County plan. These Emergency Operations Plans call for extensive consideration of emergency response and preparedness. Their intentions are reflected in the city and county building, development, street, signage, land use, and floodplain codes and ordinances.

How the County Determines Cost Effectiveness of Mitigation Programs

Since Hazard Mitigation Funds are delegated on a case-by-case basis, it is difficult to calculate the cost-effectiveness of mitigation programs other than on a case-by-case basis. Mitigation funds are calculated through the scope of damages, estimated savings in future hazardous events, and the probability of future hazard to human life and property. FEMA-funded projects must go through a rigorous Benefit Cost Analysis before submission and grant approval.

Mitigation Funding Options Including Current and Potential Sources of Federal, State, Local, Private

Jasper County and the incorporated areas within have historically relied upon Presidential disaster declarations for financial and logistical support in case of large-scale disasters. Upon such declarations, sources of funding have included FEMA, SEMA, Missouri DNR, and Missouri CDBG, along with assistance from insurance and other private funding sources.

Mitigation programs are implemented on a case-by-case basis where the applicant submits their request in writing to the Missouri State Emergency Management Agency. Usually, the state either agrees to fully or partially fund the initiative and begins an application process, or directs the applicant to other funding through governmental agencies. Private organizations have been integral in the hazard mitigation process and reciprocally benefit from positive Public Relations goals when partially funding sirens, stream cleanups or radio weather warning systems.

How County Government Meets Requirements for Hazard Mitigation Funding Programs

Jasper County regulates floodplain areas and stormwater runoff in non-incorporated areas. It is the County responsibility to maintain and update the Hazard Mitigation Plan every five years. It is recommended that the committee meet yearly to review the goals and to encourage them being met.

Funding Sources

There are several sources of funding for both pre- and post-disaster hazard mitigation policies and projects. While all mitigation techniques will likely save money by avoiding losses, the cost of implementing mitigation efforts can be substantial and well beyond the local government's capacity to fund the mitigation activity. There are existing federal and state funding programs that can be utilized for funding assistance. Following is a list of some sources of funding presently available. This list is not comprehensive. There are new programs being developed, or existing programs being eliminated or modified both by the Federal and State government.

Federal Sources

TITLE: PRE-DISASTER MITIGATION PROGRAM

AGENCY: FEDERAL EMERGENCY MANAGEMENT AGENCY (FEMA)

Through the Disaster Mitigation Act of 2000, Congress approved the creation of a national program to provide a funding mechanism that is not dependent on a Presidential disaster declaration. The Pre-Disaster Mitigation (PDM) Program provides funding to states and communities for cost-effective hazard mitigation activities that complement a comprehensive mitigation program, and reduce injuries, loss of life, and damage and destruction of property.

TITLE: FLOOD MITIGATION ASSISTANCE PROGRAM

AGENCY: FEDERAL EMERGENCY MANAGEMENT AGENCY

FEMA'S Flood Mitigation Assistance Program (FMA) provides funding to assist states and communities in implementing measures to reduce or eliminate the long-term risk of flood damage to buildings, manufactured homes, and other structures insurable under the National Flood Insurance Program (NFIP). FMA was created as part of the National Flood Insurance Reform Act of 1994 (42 U.S.C. 4101) with the goal of reducing or eliminating claims under the NFIP. FMA is a pre-disaster grant program, and is made available to states on an annual basis. This funding is exclusively available for mitigation planning and implementation of mitigation measures.

Criteria: Community must be a participant in NFIP; the project must be cost effective, beneficial to the NFIP fund, and technically feasible. The project must conform to the minimum standards of the NFIP Floodplain Management Regulations, the applicant's Flood Mitigation Plan, and all applicable laws and regulations.

TITLE: HAZARD MITIGATION GRANT PROGRAM

AGENCY: FEDERAL EMERGENCY MANAGEMENT AGENCY

The Hazard Mitigation Grant Program (HMGP) was created in November 1988 through Section 404 of the Robert T. Stafford Disaster Relief and Emergency Assistance Act. The HMGP assists states and local communities in implementing long-term mitigation measures following a Presidential disaster declaration.

Criteria: Project must conform to State's Hazard Mitigation Plan, provide a beneficial impact on the disaster area, meet environmental requirements, solve a problem independently, and be cost-effective.

TITLE: MITIGATION TECHNICAL ASSISTANCE PROGRAMS (MTAP)

AGENCY: FEDERAL EMERGENCY MANAGEMENT AGENCY

There are three major mitigation technical assistance programs (MTAPs) that provide technical support to state/local communities through FEMA Regional and Headquarters Mitigation staff in support of mitigation initiatives. These programs include the Hazard Mitigation Technical Assistance Program (HMTAP), the National Earthquake Technical Assistance Program (NETAP), and the Wind and Water Technical Assistance Program (WAWTAP). They provide the technical support that is necessary to mitigate against potential loss of lives and minimize the amount of damage as a result of a disaster.

The HMTAP provides assistance to FEMA's Headquarters and Regional Mitigation Staff. This multi-hazards program was designed to provide architectural, engineering, and other mitigation related technical assistance in support of post disaster mitigation initiatives.

The NETAP is a technical assistance program created to provide ad hoc short-term architectural and engineering support to state/local communities as they are related to earthquake mitigation. The program was designed to enhance the state/local communities' ability to become more resistant to seismic hazards. This assistance cannot be used for actions that are covered under the State's/Territories Performance Partnership Agreement (PPA). This program assists in carrying out the statutory authorities of the National Earthquake Hazards Reduction Act of 1977, as amended.

The WAWTAP is a technical assistance program created to provide ad hoc short-term assistance in support of the hurricane and flood programs. The program was designed to enhance the state/local communities' ability to become more resistant to hazards related to flooding and hurricanes. This assistance cannot be used for actions that are covered under the State's/Territories Performance Partnership Agreement (PPA). This program assists in carrying out the statutory authorities of the National Flood Insurance Act of 1968 and the Flood Disaster Protection Act of 1973.

Criteria: State participation in the Flood Program

TITLE: SBA DISASTER ASSISTANCE PROGRAM

AGENCY: U. S. SMALL BUSINESS ADMINISTRATION

The purpose of the Pre-Disaster Mitigation Loan Program is to make low-interest, fixed rate loans to eligible small businesses for the purpose of implementing mitigation measures to protect business property from damage that may be caused by future disasters. The program is a pilot program, which supports FEMA's Pre-Disaster Mitigation Program. SBA's Pre-Disaster Mitigation Program is available to businesses whose proposed mitigation measure conforms to the priorities and goals of the mitigation plan for the community, as defined by FEMA, in which the business is located. Because the program has been approved only for limited funding, approved loan requests will be funded on a first-come, first-served basis up to the limit of the program funds.

Criteria: A Presidential disaster declaration or an SBA administrative declaration must be made.

TITLE: COMMUNITY DEVELOPMENT BLOCK GRANTS

AGENCY: U. S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

The Community Development Block Grant (CDBG) program provides grants to local governments for community and economic development projects that primarily benefit low-and moderate-income people. The CDBG program also provides grants for post disaster hazard mitigation and recovery following a Presidential disaster declaration.

Criteria: CDBG eligible communities (generally communities with under 50,000 population and counties under 200,000 population) located within a Presidential disaster declaration area.

TITLE: DISASTER MITIGATION PLANNING AND TECHNICAL ASSISTANCE

AGENCY: DEPARTMENT OF COMMERCE, ECONOMIC DEVELOPMENT ADMINISTRATION

These grants are primarily designed for economic development initiatives, but are applicable to hazard mitigation when the focus is on creating disaster resistant jobs and workplaces. Also, these monies are applicable because often projects related to developing infrastructure are also making the community more disaster resistant.

TITLE: EMERGENCY WATERSHED PROTECTION

AGENCY: DEPARTMENT OF AGRICULTURE, Natural Resources (NRCS)

The Emergency Watershed Protection Program (EWP) provides financial assistance to sponsors and individuals in implementing emergency measures to relieve imminent hazards to life and property created by a natural disaster. Activities include providing financial and technical assistance to remove debris from streams, protect destabilized stream banks, and the purchase of flood plain easements. The program is designed for installation of recovery measures. It is not necessary for a national emergency to be declared to be eligible for assistance.

TITLE: WATERSHED SURVEYS AND PLANNING PROGRAM

AGENCY: DEPARTMENT OF AGRICULTURE, Natural Resources Conservation Service (NRCS)

This Program provides financial assistance for watershed planning activities and cooperative river basin surveys and investigations. Types of plans include flood hazard analyses, and flood plain management assistance, with a focus on identifying solutions that use conservation practice and nonstructural measures to solve resource problems.

State Sources

TITLE: WATER AND SEWER GRANT PROGRAMS

AGENCY: MISSOURI DEPARTMENT OF ECONOMIC DEVELOPMENT

The Department of Economic Development offers grants to enhance infrastructure such as water and sewer lines. These grants might be particularly helpful in protecting against drought by connecting disparate water sources and thereby providing multiple water sources to isolated communities. These monies might also be helpful in providing adequate protection of sewage treatment plants from the risk of flood or separation of storm water from combined sewer lines.

TITLE: EMERGENCY MANAGEMENT/MITIGATION TRAINING

AGENCY: STATE EMERGENCY MANAGEMENT AGENCY

The State Emergency Management Agency (SEMA) offers grants for training jurisdictions in hazard mitigation, preparedness, and planning. These funds are used for training appropriate staff in identifying projects best suited for mitigation.

TITLE: PRE-DISASTER MITIGATION PROJECT IMPACT

AGENCY: STATE EMERGENCY MANAGEMENT AGENCY

SEMA funds are provided to assist communities with technical assistance in the development of a sustained pre-disaster mitigation program. Funds can be used for planning mitigation initiatives and providing technical “know-how” in the construction of mitigation projects.

TITLE: HAZARD MITIGATION GRANT PROGRAM

AGENCY: STATE EMERGENCY MANAGEMENT AGENCY

SEMA funds are available to communities for implementing long-term hazard mitigation measures following a disaster declaration. It is thought that after a major disaster, communities will be able to identify where things can be done to prevent losses in the future.

TITLE: PUBLIC ASSISTANCE PROGRAM

AGENCY: STATE EMERGENCY MANAGEMENT AGENCY

These SEMA grants are designed to provide funds to repair damaged infrastructure and public facilities. Funds can also be used to reinstate government services impacted by a natural hazard event. This program can fund the repair of damaged components of a structure.

TITLE: DISASTER RECOVERY INITIATIVE

AGENCY: MISSOURI DEPARTMENT OF ECONOMIC DEVELOPMENT

The Missouri Department of Economic Development (DED) provides this grant program to bridge funding gaps in recovery assistance after a disaster. These funds can also be used to fund gaps in a mitigation development program.

TITLE: SOIL AND WATER CONSERVATION PROGRAM

AGENCY: MISSOURI DEPARTMENT OF NATURAL RESOURCES

The Missouri Department of Natural Resources (DNR), through the Soil and Water Conservation Program, offer grants, cost share programs, and low interest loans to agencies and property owners to plan and implement best practices to reduce soil erosion and improve water quality. Practices that facilitate slower release of water upstream mitigate downstream flood hazards. The programs are generally applicable to rural and agricultural environments.

Local Sources

Municipal and county governments can provide funds for projects through their general revenue fund and through a dedicated capital improvement and/or transportation sales/use tax. Special taxing districts, such as a Neighborhood Improvement District (NID), can be formed if practical, to assess property owners for a portion of the cost of improvements.

Non-governmental

Other potential sources of revenue for implementing local mitigation projects are monetary contributions from nonprofit organizations such as the American Red Cross, community relief funds, churches, charitable trusts, and land trusts.

Recommendations for Improvement

The Harry S Truman Coordinating Council Area Hazard Mitigation Committee recommends more mutual aid agreements among neighboring jurisdictions; improve the capabilities of the Emergency Management Agencies and their operations; additional warning sirens; community tornado shelters; adopt and implement stormwater regulations; enforce and update floodplain regulations and increase floodplain buyout programs; promote drought resistant farming, crops and

techniques; implement design recommendations to reduce and limit impervious surfaces which create runoff and flash floods; and generally increase overall awareness and education for public safety.

City/Town/Village Policies and Development Trends

Every incorporated area has near similar potential probability for tornado/severe thunderstorms; severe winter weather, heat wave, drought, wildfires, sinkholes, and earthquakes. Location specific hazards include floods and dam failure. Entities with National Flood Insurance, and that lie within the floodplains of the County as designated by the State Emergency Management Agency, are: Airport Drive, Carterville, Carthage, Carl Junction, Airport Drive, Duenweg, Jasper County, Oronogo, Sarcoxie, Joplin, and Webb City. Entities that lie in the floodplain are: City of Joplin, Village of Airport Drive, Village of Asbury, Village of Brooklyn Heights, Village of Duenweg, Village of Fidelity, City of Carl Junction, City of Webb City, City of Carterville, City of Oronogo, City of Carthage, City of Neck City, City of Purcell, City of Jasper, Village of Carytown, Village of Reeds, and the City of Sarcoxie. These communities are prone to more hazardous events than others because of their proximity to the floodplain. Most of these cities have ordinances controlling development within the floodplain. See Section 1 on City profiles for specifics. Growth trends in the Jasper County areas are also outlined within Section 1. With ordinances in place, cities can expand into the referenced areas safely. Most cities also have building inspection and stormwater regulations.

Because of the nature of karst topography, sinkholes within Jasper County can happen anywhere in the county. But mine and sinkhole collapses due to mining are a different problem. Mitigation of these areas by filling abandoned mines is being done by EPA and should help the situation. This mitigation activity is nearly complete in the Oronogo Duenweg belt and is opening up a new area for development for Webb City and Carterville. That area is north of Webb City and west of Carterville.

Development has been growing at a steady pace with the Jasper County region. Population growth from Census year 1990-2000 for the Jasper County region was 15.7%. The new Range Line Bypass, US Highway 249 goes from I-44 to US Highway 171 at Carterville. This new highway has begun to spur development towards the east of the City of Joplin, and the west of the City of Carthage. Webb City, Carterville, and Duenweg have already annexed land around the new highway for commercial development. Joplin has also annexed along I-44 bringing the city boundaries to the Oklahoma state line. Anticipating growth to the west with Wildwood Ranch Development., the city has started annexing to link up with Wildwood. A large section containing this trucking industry user has been annexed into the city on Highway 43 along I-44. Airport Drive has annexed to growth areas; one is going down Fountain Road east and the other is along Fir Road and Airport Drive, where a shopping center will be built. Due to being in the Webb City School system area and city services, Oronogo continues to grow north, east and west. Growth for these cities has slowed considerably with the economic downturn experienced in the area.

The land use patterns that exist with the area represent a system which is dominated by urban vs. rural classifications. The largest urbanized area in the county is Joplin, Webb City, Carterville and Carl Junction. Much of the rest of the area is communities of less than 500 residents. In terms of land use within the specific communities, there is a wide disparity in the variety of land uses. Joplin and Carthage contain many of the industrial and institutional uses in the area. Smaller communities contain mostly residential uses and few commercial uses. While this pattern of land use can be expected, and in some cases preferred as a means of protecting small town character, although it leaves many residents with few services within a reasonable distance from their homes.

	2001	2009
Airport Drive	2	0
Alba	0	0
Asbury		
Avilla		
Brooklyn Heights		
Carl Junction	60	9
Carterville		
Carthage	34	12
Carytown		
Duenweg	1	1

Duquesne	7	1
Fidelity		
Jasper	0	0
Jasper County	282*	101
Joplin	217	51
La Russell		
Neck City		
Oronogo	147*	3
Purcell		
Reeds		
Sarcoxie	0	0
Waco		
Webb City	46	24

Jasper County numbers are for 2007 & 2009

	2000-2009
Airport Drive	+18.6%
Alba	+1.0%
Asbury	+7.8%
Avilla	+7.3%
Brooklyn Heights	+8.8%
Carl Junction	+40.7%
Carterville	+7.8%
Carthage	+10.2%
Carytown	+7.8%
Duenweg	+21.7%
Duquesne	+7.4%
Fidelity	+9.1%
Jasper	+6.5%
Jasper County	+12.9%
Joplin	+10.3%
La Russell	+8.7%
Neck City	+8.45
Oronogo	+124.7%
Purcell	+11.2
Reeds	+9.7%
Sarcoxie	+2.5%
Waco	+9.3%
Webb City	+19.0%

SECTION 4 INTRODUCTION TO MITIGATION

Definition of Mitigation

Mitigation is defined as sustained action that reduces or eliminates long-term risk to people and property from natural hazards and their effects. It describes ongoing effort at federal, state, local and individual levels to lessen the impact of disasters upon our families, homes, communities, and economy.

Mitigation includes not only avoiding the development of vulnerable sections of the community, but also making existing development in hazard prone areas safer. Incorporating mitigation into decisions related to our community's growth could result in a safer, more resilient community, and one that is more attractive to new facilities and businesses.

Categories of Mitigation

The State of Missouri is subject to many types of natural hazards: floods, tornadoes, winter storms, landslides, earthquakes, droughts, winter storms and wildfires. All-hazard mitigation planning is the process associated with devising strategies needed to mitigate the damages associated with this wide variety of potential natural disasters.

Since there are a wide variety of natural disasters to consider in hazard mitigation planning, there are many categories of mitigation. They are prevention, property protection, natural resource protection, emergency services, structural projects, and public information.

Prevention measures are intended to keep a hazard risk problem from getting worse. They ensure that future development does not increase hazard losses. Communities can achieve significant progress toward hazard resistance through prevention measures. This is particularly a threat in areas that have not been developed or where capital investment has not been substantial. By using prevention measures, future development can be guided away from hazards, while maintaining other community goals such as economic development and quality of life through planning and zoning, open space preservation, land development regulations, and/or stormwater management.

Property protection measures are used to modify buildings subject to hazard risk, or their surroundings, rather than to prevent the hazard from occurring. A community may find these to be inexpensive measures because often they are implemented or cost shared with property owners. These measures directly protect people and property at risk. Acquisition is the public procurement and management of lands that are vulnerable to damage from hazards. Relocation is the permanent evacuation of hazard prone areas through movement of existing hazard prone development and population to safer areas. Rebuilding includes modifying structures to reduce damage by future hazard events. Floodproofing involves protecting a flood prone building using one or more of several different methods to redirect or divert floodwaters.

Natural resources protection measures are intended to reduce the intensity of hazard effects as well as to improve the quality of the environment and wildlife habitats. Parks, recreation, and conservation agencies or organizations usually implement these activities. Examples of natural resource protection include erosion and sediment control and wetlands protection.

Emergency services measures protect people before and after a hazard event. Most counties and many cities have emergency management offices to coordinate warning, response, and recovery during disaster. Emergency services include warning, capacity of response (not a mitigation measure), critical facilities protection, and health and safety maintenance.

Structural measures directly protect people and property at risk. They are called "structural" because they involve construction of man-made structures to control hazards. Structural projects for flood control may include reservoirs, levees, floodwalls, and seawalls, diversions, channel modifications, and storm sewers. A structural solution for landslides is the construction of a debris basin.

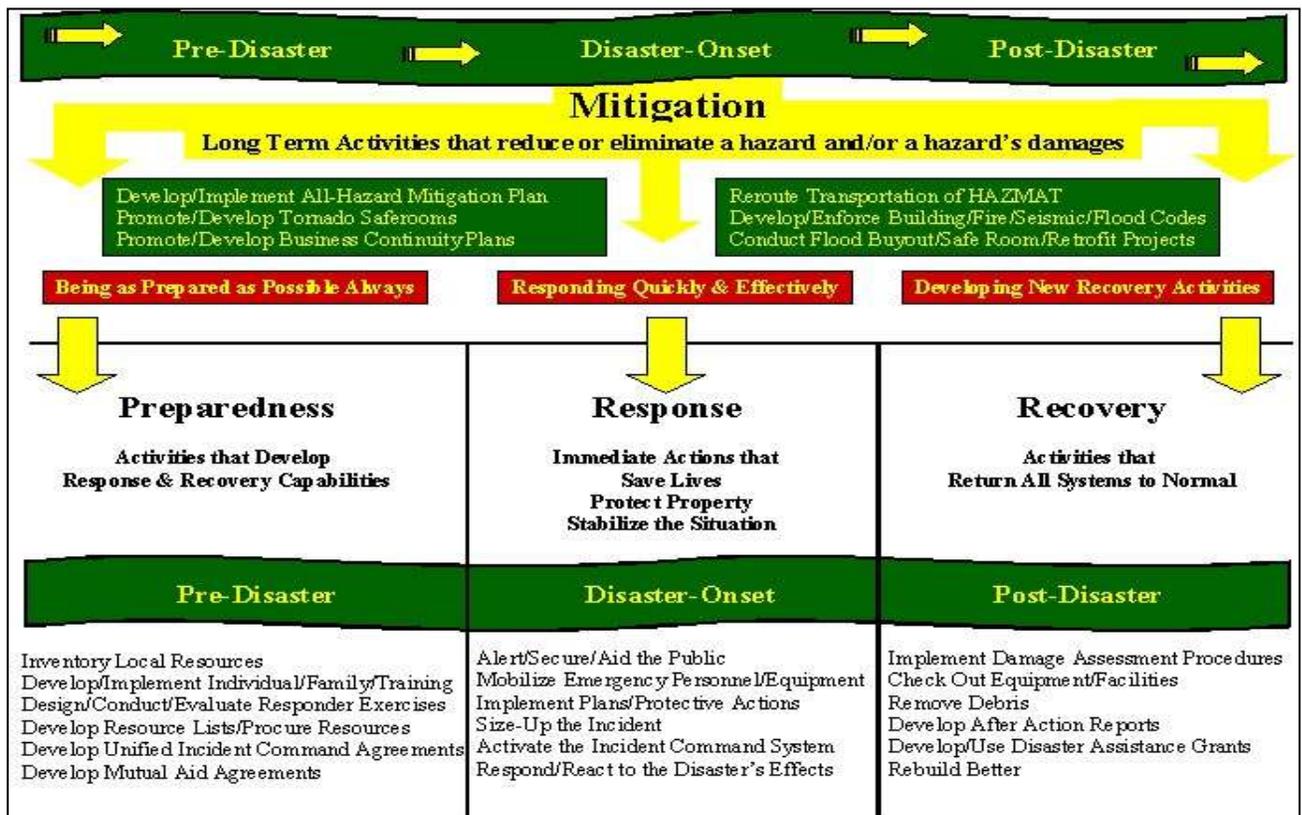
Public information activities inform and remind people about hazardous areas and the measures necessary to avoid potential damage and injury. Public Information activities for mitigation are directed toward property owners, potential property owners, business owners, and visitors (tourists). A few examples of public information activities to achieve mitigation are providing hazard maps and other hazard information, outreach programs that provide hazard and mitigation information to people when they have not asked for it, real estate disclosure, information in the public library or a library developed specifically for mitigation information, Available technical assistance, and school age and adult educations programs (pamphlets, flyers, drills).

Mitigation Versus Preparedness, Response and Recovery

Preparedness, response, and recovery are not mitigation measures. Preparedness activities are those that develop response and recovery capabilities. Response activities are immediate actions that save lives, protect property, and stabilize the situation. Recovery is activities that return all systems to normal. Mitigation is long-term activities that reduce or eliminate a hazard and/or its subsequent damages.

Planners must keep in mind that mitigation includes long-term activities that reduce or eliminate a hazard's damages. Building codes, floodplain management, tornado safe rooms, flood buyouts, and planning are examples of mitigation. Preparedness activities are designed to develop individual and community capabilities to respond to and recover from disasters. Preparedness activities include training, exercises and stocking emergency supplies. Response actions include those immediate activities that save lives, protect property and stabilize the situation when disaster strikes. The activities that return the community to normal or pre-disaster conditions fall under the heading of recovery.

Figure 4.1
Mitigation as Preparedness, Response, and Recovery



Hazard Mitigation Planning offers many community benefits. Principally, it can save lives and property, meet the needs of the community, achieve multiple objectives, reduce vulnerability of future hazards, guide and speed post disaster recovery, enhances funding opportunities, and promotes public participation.

Communities can save lives and reduce property damage from natural hazards through mitigation actions, such as keeping families and homes out of harm's way. Each community is different in terms of its economics, size, geography, governance, demography, land uses, and hazards. Therefore, each community's mitigation plan will vary to some degree. Mitigation planning identifies problems and solutions that are specific to your community. Developing a multi-objective plan that can help the community to better sustain itself will find the most appropriate solutions, address multiple problems

with a single solution, maintain or improve local environmental and economic integrity, and demonstrate commitment to improving community health and safety. With a mitigation strategy in place, the community will be better prepared to take steps that will permanently reduce the risk of future losses for individuals and businesses. It is important to remember that individuals and business owners forget their power to reduce vulnerability to damage if they build the community without regard to natural hazards or if they rebuild after a disaster “just like it was before”. The planning process guides post disaster recovery in many ways. By identifying and ranking before the next disaster, the community will be in a better position to obtain post-disaster funding because much of the background work necessary for applying for federal funding will already be completed. The mitigation process works through the use of various possible sources of federal, state, and local project funding. Successful completion of the Hazard Mitigation Plan can also fulfill the planning requirements for several federal programs such as the Hazard Mitigation Grant Program (only post-disaster mitigation grant program), the Pre-Disaster Mitigation (PDM) grant program, the Flood Mitigation Assistance (FMA) program, and the Community Rating System (CRS) program. This plan also may qualify the community for recognition for other federal programs such as the National Weather Service’s Storm Ready program. Finally, the planning process promotes public participation by generating ideas for solutions ensuring recognition and local ownership of the plan, and providing groups and individuals concerned about the potential effects of disasters many opportunities to participate in problem solving and in plan implementation.

SECTION 5 COUNTY HAZARD MITIGATION GOALS, OBJECTIVES, STRATEGY, AND COORDINATION

Note: This section was majorly overhauled to better reflect the requirements of FEMA. Several notes are below showing changes.

Mitigation Goals, Objectives, and Actions

The Jasper County Hazard Mitigation Plan identifies four goal statements. Each goal is meant to be general and broad in nature, and can only be achieved through the long-term implementation of more specific objectives. It is intended that each goal listed below will be more specifically addressed and realized through the implementation of short-term mitigation objectives and actions. These goals and objectives were revised through the planning process and the involvement of all local officials and stakeholders that participated. Comments came in from several cities about the revision of these goals and objectives. At the May 27, 2010 Hazard Mitigation committee meeting those comments were reviewed and then goals and objectives were revised to be encouraging and promote actions for all entities. (In fact, very little was changed from the old goals and objectives of the original plan as these are of long term value- goal 5 was a repeat of goal 4 and removed, “Jasper County” was changed to entity, and objectives were softened to encourage not dictate.) The committee decided that actions should be submitted individually for each entity, thus making it truly a plan of the stakeholders. Mitigation goals and objectives are to be listed together for ease of reading. The actions, as were priorly listed, were confusing as to who’s actions they were. It was decided therefore that Section 5 will have a complete makeover with all actions listed at the end by entity, with details for implementation by entity. Actions completed from the last five years will be listed separately. The desire of the committee is to get all entities to be a part of this plan so that each will review their own hazards and define an action plan they can comfortably implement to mitigate as many hazards as are financially possible in this economically stressed environment. The greatest concern was financial feasibility as expressed by many cities and schools and the committee as a whole.

All actions will be evaluated by the Harry S Truman Area Hazard Mitigation Committee. This Committee will be a board structure that consists of area-wide Stakeholders, and will determine the status of actions, and determine when these actions are complete, incomplete, conditionally complete, or need to be renewed. The method used to evaluate the action status will be a review process by said Committee at least annually. The annual meeting needed a champion so Harry S Truman Coordinating Council will be the facilitator, coordinator, and secretary of the future meetings.

MITIGATION GOALS AND OBJECTIVES – The following goals and objectives apply to all entities (county, cities, towns, villages, and schools) in Jasper County as applicable or practicable

- GOAL #1:** Increase entities’ internal **capabilities** to mitigate the effects of natural hazards.
- Objective 1.1:** Promote enhancement of floodplain management activities.
 - Objective 1.2:** Promote the entities’ capability to conduct hazard risk assessments, demonstrate funding needs, and track mitigation activities throughout the entity.
 - Objective 1.3:** Track adequacy of emergency services to protect public health and safety.
- GOAL #2:** Enhance existing or design new entity **policies** that will reduce the potential damaging effects of hazards without hindering other community goals through punitive constraints.
- Objective 2.1:** Increase the entities’ control over development in the floodplain to ensure lives and properties are not at risk to future flood conditions.
 - Objective 2.2:** Preserve the natural and beneficial functions of the entities’ floodplains and wetlands through continued support of natural resource protection policies and by discouraging growth in environmentally sensitive areas.
 - Objective 2.3:** Encourage new construction is completed using severe weather/ high wind resistant design techniques and materials in accordance with the minimum requirements of the International Building Codes or Building Officials and Code Administrators International Code that will limit damage caused by high winds and reduce the amount of windborne debris.

- GOAL #3:** **Protect** entities’ most vulnerable populations, buildings, and critical facilities through the implementation of cost-effective and technically feasible mitigation projects.
- Objective 3.1:** Maximize the use of available hazard mitigation grant programs to protect the entities’ most vulnerable populations and structures.
- Objective 3.2:** Decrease the number of FEMA identified “repetitive loss properties” located in Jasper County by 25% by the year 2015.
- Objective 3.3:** Ensure that all vital/ critical facilities are protected from the effects of natural hazards to the maximum extent possible.
- Objective 3.4:** Increase the amount and range of community severe weather/ tornado community shelters and private safe rooms throughout the County. (Note: This objective came from Goal 4 but better fit this location
- GOAL #4:** Protect public health, safety, and welfare by increasing the **public awareness** of existing hazards and by **fostering** both individual and public **responsibility** in mitigating risks due to those hazards.
- Objective 4.1:** Increase the level of knowledge and awareness of residents on the hazards that routinely threaten the area.
- Objective 4.2:** Promote the number of entities’ residents that maintain an active NFIP flood insurance policy.

Goal 5 was deleted as it was repetitious of Goal 4.

Mitigation Strategy and Coordination

In formulating the Jasper County Hazard Mitigation Strategy, a wide range of activities were considered in order to help achieve the goals of the community and to lessen the vulnerability of the County to the effects of natural hazard events. The mitigation strategy is to accomplish as many identified goals within 5 years as practicable before the next update is scheduled. In general, all of these activities fall into one of the following categories of mitigation techniques.

MITIGATION STRATEGY

I. Prevention

Preventative activities are intended to keep damage from hazardous events from getting worse. They are intended to reduce a community’s future vulnerability, especially in areas where development has not occurred or capital improvements have not been substantial. Prevention includes:

- A. Planning and Zoning
- B. Open Space Acquisition and Preservation
- C. Floodplain Regulation
- D. Stormwater Regulation and Management
- E. Drainage Systems Maintenance and upgrades
- F. Capital Improvements Programming
- G. Hazard Prone area Preservation

II. Property Protection

Property protection measures protect existing structures by modifying the building to withstand and mitigate damage caused by hazardous events, or remove structures from hazardous locations. Examples include:

- A. Acquisition
- B. Relocation
- C. Building Elevation
- D. Critical Facilities Protection
- E. Retrofitting (i.e. wind proofing, flood proofing, seismic design standards, etc.)
- F. Insurance
- G. Community and Private Safe Rooms

III. Natural Resource Protection

Natural resource protection activities reduce the impact of natural hazards by preserving, restoring, and/or enhancing natural areas and their mitigative function. Such areas include floodplains, wetlands, and other environmentally sensitive areas. These measures are already an implementation tool of parks, recreation, and conservation agencies and/or organizations. Examples of natural resource protection are:

- A. Floodplain Protection and Buyout
- B. Riparian/Riverine Buffer Zones
- C. Fire Resistant Landscaping
- D. Fuel Breaks
- E. Erosion and Sediment Control
- F. Wetland Preservation and Restoration
- G. Wildlife Habitat Preservation
- H. Slope Stabilization

IV. Structural Projects

Mitigation through structural projects is intended to lessen the impact of hazardous events by modifying the natural progression of such an event. These measures are usually undertaken and designed by engineers and managed by public works staff. Most of these initiatives pertain to flood control, and examples include:

- A. Reservoirs
- B. Levees/ Dikes/ Floodwalls
- C. Diversions/ Detention/ Retention
- D. Channel Modification
- E. Storm Sewers and Drainage

V. Emergency Services

Emergency service measures minimize the impact of a hazard on people and property immediately prior to, during, or in response to a hazard event. Emergency service mitigation techniques include:

- A. Warning Systems
- B. Evacuation Planning and Management
- C. Sandbagging for Flood Protection
- D. Installing Shutters for Wind Protection

VI. Public Information and Awareness

Public information and awareness activities are engaged in to advise residents, business owners, potential property buyers, and visitors about hazards, hazardous areas, and mitigation techniques they can use and protect themselves and their property from hazardous events prone to this region. Examples of measures to educate and inform the general public include:

- A. Outreach Projects
- B. Speaker Series/ Demonstration Event
- C. Hazard Mapping
- D. Real Estate Disclosure
- E. Library Materials/ Handouts/ Pamphlets
- F. School Children Education and Drills
- G. Hazard Expositions

MITIGATION ACTIONS COMPLETED FROM THE PRIOR PLAN

As a part of the update process, the county and cities were asked what actions they had completed from the prior plan. This is a list of completed actions as reported by the entities.

Action #1: Create a Countywide Hazard Mitigation Committee to coordinate and prioritize goals, objectives, and actions identified in this plan and its subsequent updates. **By County and communities March 2009**

Action #3: Conduct an inventory survey for the County's emergency response services to identify any existing needs or shortfalls in terms of personnel, equipment or required resources. **By County**

Action #4: Require community tornado shelters for any new manufactured/mobile home park. **Joplin lets no new parks in town by ordinance**

Action #5: Promote community shelters in existing manufactured/mobile home parks. **By County**

Action #6: Promote a mutual agreement among the County and all incorporated areas that establishes the minimum requirements of the International Building Codes. **Joplin has adopted IBC**

Action #7: Incorporate a Geographic Information System (GIS) to maintain current building and parcel data for purposes of conducting more detailed hazard risk assessments, for tracking permitting and land use patterns in hazard prone areas. **Joplin is in process of getting rest of information in GIS**

Action #8: Identify the County's' most at-risk key community facilities, and execute the potential mitigation techniques for protecting each facility to the maximum extent possible. **By County**

Action #9: Increase Warning System coverage to the most feasible extent. **By County – installed Reverse 911 2010**

Action #10: Develop and adopt a “no-rise (in base flood elevation)” clause for the County's Floodplain Ordinances. **Joplin has revised and will be adopting new ordinance with this clause**

Action #13: Seek funding to complete a stormwater drainage study/plan for needy communities. **Joplin completed stormwater study 2010, Oronogo completed stormwater study 2009**

Action #14: Acquire and preserve parcels of land subject to repetitive flooding from willing and voluntary property owners. **County attempted to do buyout but community (Kendricktown) would not sell**

Action #16: Revise the County's Floodplain Ordinances to be in compliance with the new SEMA and FEMA standards. **Joplin and other communities in NFIP adopted new ordinance 2010 (PER FEMA)**

Action #17: Develop an educational flyer targeting NFIP policyholders on the Increase Costs of Compliance (ICC) coverage, to be disseminated following a flood event that results in substantial damage determinations by the County. **County has a flyer**

Action #18: Incorporate the inspection and management of hazardous natural debris into the County's routine drainage system maintenance process. **Joplin has a yearly inspection**

Action #20: Research and design an appropriate stream buffer ordinance to further protect Jasper County's water resources and to limit future flood damage adjacent to waterways. **Joplin incorporated stream buffer into zoning code.**

Action #21: Coordinate and conduct stream cleanup programs in populated flood hazard prone areas. **Joplin has a program**

MITIGATION ACTIONS TO BE DELETED FROM ORIGINAL PLAN

These are the actions that are deleted from the plan because of completion or because it is unclear as to who's action it applies to. All actions will be decided by each entity and details will be listed as to how it will be done. This is later in this section. When the plan was written originally in 2004, jurisdictions were not required to link directly to specific mitigation goals and actions. As such, the goals and actions developed in 2004 were on a broad, regional scale. Additionally, these goals and actions only addressed the first eight natural hazards identified in this plan. The aim was to provide local governments with many options for reducing their risks to hazards. However, specifics for each jurisdiction were not included. This update attempts to correct that deficiency. **Joplin and the County completed many of the actions, but most smaller cities did not. The exception was adopting the new Floodplain Ordinance. FEMA worked with all participants**

in NFIP to update their ordinance after the new mapping was done. Also, the actions were listed twice in the prior plan in two formats. This made it confusing to member cities.

Actions listed under goals and objectives of old plan

Action #1: Revise the County's Floodplain Ordinances to be in compliance with the new SEMA and FEMA standards. (Completed – see above)

Action #2: Regularly calculate and document the amount of flood prone property that is preserved as open space for additional credit points under the Community Rating System (CRS).

Action #1: Create a Countywide Hazard Mitigation Committee to coordinate and prioritize goals, objectives, and actions identified in this plan and its subsequent updates. (Completed)

Action #2: Incorporate a Geographic Information System (GIS) to maintain current building and parcel data for purposes of conducting more detailed hazard risk assessments, for tracking permitting and land use patterns in hazard prone areas. (Completed-see above)

Action #1: Conduct an inventory survey for the County's emergency response services to identify any existing needs or shortfalls in terms of personnel, equipment or required resources. (Completed-see above)

Action #1: Develop and adopt a “no-rise (in base flood elevation)” clause for the County's Floodplain Ordinances. (Completed-see above)

Action #2: Revise the County's Floodplain Ordinances to be in compliance with the new SEMA and FEMA standards. (Completed-see above)

Action #3: Research and design an appropriate stream buffer ordinance to further protect Jasper County 's water resources and to limit future flood damage adjacent to waterways. (Completed-see above)

Action #1: Incorporate the inspection and management of hazardous natural debris into the County's routine drainage system maintenance process. (Completed-see above)

Action #2: Coordinate and conduct stream cleanup programs in populated flood hazard prone areas. (Completed-see above)

Action #3: Promote a policy for slope stabilization efforts to prevent erosion and slippage of hills located near populated areas either up or down slope. (Jasper County is not prone to slippage)

Action #1: Promote a mutual agreement among the County and all incorporated areas that establishes the minimum requirements of the International Building Codes.

Action #1: Require community tornado shelters for any new manufactured/mobile home park. (Completed-see above)

Action #2: Promote community shelters in existing manufactured/mobile home parks. (Completed-see above)

Action #1: Increase warning system coverage to the most feasible extent. (Completed-see above)

Action #2: Investigate the feasibility and funding availability for the construction of structural projects to alleviate future flood hazard conditions.

Action #3: Seek funding to complete a stormwater drainage study/plan for needy communities. (Completed-see above)

Action #1: Acquire and preserve parcels of land subject to repetitive flooding from willing and voluntary property owners. (attempted- see above)

Action #2: On an annual basis, contact all owners of FEMA identified repetitive loss properties and inform them of the assistance available through the federal Flood Mitigation Assistance Program, in addition to their flood protection measures.

Action #1: Establish a local reserve fund for repairing and/ or incorporating hazard mitigation measures for public facilities and infrastructure damaged by natural hazards.

Action #2: Identify the County's most at-risk key community facilities, and execute the potential mitigation techniques for protecting each facility to the maximum extent possible. (Completed-see above)

Action #1: Coordinate seasonal educational materials on individual and family preparedness/mitigation measures, and display and distribute routinely to county citizens and officials alike.

Action #2: Annually host a public hazards workshop for the residents of Jasper County , in combination with another large-scale community/regional festival or event.

Action #1: Advertise and promote the availability of flood insurance to county property owners by direct mail annually.

Action #2: Distribute an educational flyer targeting NFIP policyholders on the Increase Costs of Compliance (ICC) coverage, to be disseminated following a flood event that results in substantial damage determinations by the County. (Completed-see above)

Action #1: Coordinate seasonal educational materials on individual and family preparedness/mitigation measures, and display and distribute routinely to county citizens and officials alike.

Action #2: Annually host a public hazards workshop for the residents of Jasper County , in combination with another large-scale community/regional festival or event.

Actions listed separate from goal and objectives (and reiterated) from old plan

Action #1: Create a Countywide Hazard Mitigation Committee to coordinate and prioritize goals, objectives, and actions identified in this plan and its subsequent updates.

Action #2: Establish a local reserve fund for repairing and/ or incorporating hazard mitigation measures for public facilities and infrastructure damaged by natural hazards.

Action #3: Conduct an inventory survey for the County's emergency response services to identify any existing needs or shortfalls in terms of personnel, equipment or required resources.

Action #4: Require community tornado shelters for any new manufactured/mobile home park.

Action #5: Promote community shelters in existing manufactured/mobile home parks.

Action #6: Promote a mutual agreement among the County and all incorporated areas that establishes the minimum requirements of the International Building Codes.

Action #7: Incorporate a Geographic Information System (GIS) to maintain current building and parcel data for purposes of conducting more detailed hazard risk assessments, for tracking permitting and land use patterns in hazard prone areas.

Action #8: Identify the County's' most at-risk key community facilities, and execute the potential mitigation techniques for protecting each facility to the maximum extent possible.

Action #9: Increase Warning System coverage to the most feasible extent.

Action #10: Develop and adopt a "no-rise (in base flood elevation)" clause for the County's Floodplain Ordinances.

Action #11: Advertise and promote the availability of flood insurance to county property owners by direct mail annually.

Action #12: Investigate the feasibility and funding availability for the construction of Structural Projects to alleviate future flood hazard conditions.

Action #13: Seek funding to complete a stormwater drainage study/plan for needy communities.

Action #14: Acquire and preserve parcels of land subject to repetitive flooding from willing and voluntary property owners.

Action #15: Regularly calculate and document the amount of flood prone property that is preserved as open space for additional credit points under the Community Rating System (CRS).

Action #16: Revise the County's Floodplain Ordinances to be in compliance with the new SEMA and FEMA standards.

Action #17: Develop an educational flyer targeting NFIP policyholders on the Increase Costs of Compliance (ICC) coverage, to be disseminated following a flood event that results in substantial damage determinations by the County.

Action #18: Incorporate the inspection and management of hazardous natural debris into the County's routine drainage system maintenance process.

Action #19: On an annual basis, contact all owners of FEMA identified repetitive loss properties and inform them of the assistance available through the federal Flood Mitigation Assistance Program, in addition to their flood protection measures.

Action #20: Research and design an appropriate stream buffer ordinance to further protect Jasper County's water resources and to limit future flood damage adjacent to waterways.

Action #21: Coordinate and conduct stream cleanup programs in populated flood hazard prone areas.

Action #22: Promote a policy for slope stabilization efforts to prevent erosion and slippage of hills located near populated areas either up or down slope.

Action #23: Coordinate seasonal educational materials on individual and family preparedness/mitigation measures, and display and distribute routinely to county citizens and officials alike.

Action #24: Annually host a public hazards workshop for the residents of Jasper County, in combination with another large-scale community/regional festival or event.

MITIGATION ACTIONS FOR EACH ENTITY WITHIN THE COUNTY

Note: This is a major change from the old plan. Each jurisdiction and school has their own actions and plan for implementation for those actions.

Many variables must be taken into account when prioritizing Mitigation Actions and Goals.

Some of the most important are:

- **Benefit-Cost Review** – takes into account the monetary and non-monetary costs and benefits associated with each action. (Example: Inviting Insurance spokesmen to speak at a community event to explain that insurance may be cheaper than most people think – this would cost the community nothing and would reach many people.)

- **Ease of implementation** – takes into account the ease of completing a goal in a short time and at little financial cost, but still reaching a large number of people. (Example: Providing hazard education through the media and other documents.)

- **Multi-objective actions** – takes into account that some mitigation actions may achieve more than one community goal. (Example: A flood buyout of a property will ensure that there will be no more cost associated with damage to that property, but it could also allow the city to build a park or open-space in its place.)

- **Time** – takes into account that some projects could be completed quickly, whereas others may take years to finish. (Example: Community education on in-place sheltering during tornadoes could be completed much more quickly than building a safe room.)

- **Post-disaster mitigation** – Takes into account that funding, political, and social considerations may change considerably following a disaster. (Example: Funding becoming available for flood buy-outs following a large rainstorm causing flooding and damage to property. (Adapted from Springfield-Greene County Hazard Mitigation Plan Update – FEMA approved 2009)

The Harry S Truman Coordinating Council Area Hazard Mitigation Committee sought a logical method to review and rank mitigation strategies throughout Jasper County. The Committee requested each entity to define its own actions. To assist with this, the committee, via email came up with a suggested ideas list for the different entities to look at as they develop their own action plan. They must each rule out what was not financially feasible or not applicable to them and add other actions that they felt were of value. Most cities reported that their council ruled out financially unfeasible first.

The suggested list is as follows with the following instructions. Each entity was to review their needs within the community. Then look at the list and rule out all actions not financially feasible or not applicable to their needs. They were then to add to their list all other ideas that came from their public hearings and council meetings that would work for them.

Action ID	Action	Priority H, M, L	STAPLEE Score	Goals	Hazard Addressed
County-1	NFIP – Continue Compliance				Flood
County-2	Habitable building Buyout				Flood
County-3	Active Building Code Enforcement				All
County-4	Educate Public on the Impacts of Major Disease Outbreak				Disease
County-5	Inclusion of Tornado saferooms in all Future Buildings Built by County				Tornado
County-6	All-Hazards education for Mitigation, Preparedness, Response & Recovery				All
County-7	Educate the Impacts of Lightning				Lightning
County-8	Low-water Crossing elimination				Flood
County-9	Floodwarning system Implementation				Flood
County-10	Additional outdoor warning sirens				Wind/Tornado

County-11	Promote private insurance				All
County-12	Promote crop insurance				Drought/Flood
County-13	Reverse 911				All
Multi-1	floodproof buildings				Flood
Multi-2	Saferooms in Private Schools				Tornado
Multi-3	Continue training Responders to Hazardous & Radiological Material spills				Manmade
Multi-4	Increase public & fire dept training on wild and interface fires				Wildfire
Multi-5	Increase homeowner education on wildfire mitigation in wildland-urban interface				Wildfire
Multi-6	Reduce hazardous fuels in prioritized wildfire risk area				Manmade

Action ID	Action	Priority H, M, L	STAPLEE Score	Goals	Hazard Addressed
City-1	NFIP - Continue Compliance				All
City-2	Saferoom				Tornado
City-3	Portable Electric Generators				Tornado/Ice
City-4	Storm Siren Expansion				Wind/Torn
City-5	Stormwater Study				Flood
City-6	Public Education of Businesses, homeowners, and residents				All
City-7	flood control projects and stormwater upgrades				Flood
City-8	Emergency Power Backup for City Hall				Tornado/Ice
City-9	Flood buyout for --=				Flood
City-10	Saferoom for trailer park				Tornado
City-11	Active Code enforcement				Flood

Action ID	Action	Priority H, M, L	STAPLEE Score	Goals	Hazard Addressed
School System-1	Saferoom for each location				Tornado

School System-2	Educate students and parents of hazards with informational flyers				All
School System-3	Backup generator for central office and shelters				Tornado/Ice
School System-4	Increase awareness of students and teachers with campus drills and training				All

After making a list each was to do a detail sheet with specifics on how each would be done. Here is the copy of the example that was sent out.

example

Jasper County-1	NFIP - Continue Compliance
Issue/Background	Current Minimum federal requirements allow fill in the floodplain and rising of the water surface elevation
Plan for Implementation and Administration	Restrict/Eliminate development in the existing floodplain and acquire land in necessary
Lead Agency	Jasper County Public Works
Partners	None
Funding Description	State and Federal Agencies
Total Cost	unknown
Benefits (Losses Avoided)	Minimize potential for the creation of future flooding problems, improve water quality, and improve the environment
Completion Date	Ongoing

To assess the value of each action, each entity was also told to score their actions with STAPLEE, keeping all costs and benefits in mind. The STAPLEE score sheets are in the appendix M. Actions need a benefit-cost review, so the committee decided that using STAPLEE would be the best way to assist each entity in doing this review. With STAPLEE, the feasibility of mitigation actions was considered in light of the social, technical, administrative, political, legal, economic and environmental characteristics, capabilities and issues in a community. Each entity was told to score keeping cost benefit in mind. Most entities expressed that their main concern as they scored their actions was the economic viability of the action. Could they afford to do it?

The STAPLEE evaluation did not apply priority or weight to a proposed mitigation action; however, benefit-cost review was emphasized during the prioritizing process along with feasibility and each community's capabilities as outlined

previously in this Plan and was ranked in a way to maximize benefits within this scope. Sometimes a high number would be moved down on the priority because of costs, or other issues. High-priority actions are those for which finances, manpower, and political support, are readily available to accomplish the actions and for those that have an impact on a large amount of people. Cost-effectiveness will be considered an additional detail when seeking FEMA mitigation grant funding for eligible projects identified in this plan. Overall, this method demonstrates that actions were considered based on costs and benefits by each entity, making this plan useful and unique to each community, while maintaining simplicity and focusing primarily on every community's needs and values. (Per FEMA 386-5 pg. 13)

To implement the actions outlined in this mitigation plan, each entity should strive to include their respected actions in other planning documents and processes such as their emergency plans, SOPs, EOPs, etc.

Action ID	Action (see details later in plan for each action)	Priority H, M, L	STAPLEE Score	Goals and Objectives	Hazard Addressed	Protect Current or Future Building
Airport Drive - 1	NFIP – Enforce floodplain Ordinance	H	48	1.1	Flood	Both
Airport Drive - 2	Active Building Code Enforcement	H	54	2.3	Fire/Wind/Storm	Both
Airport Drive - 3	Active Code enforcement	H	54	2.3	Fire/Wind/Storm	Both
Airport Drive - 4	NIMS Training	H	45	1.1	All	Neither
Airport Drive - 5	Portable Electric Generators	H	48	3.1, 3.3	Tornado /Ice	Neither
Airport Drive - 6	Public Education of Businesses and residents by Newsletter	M	36	4.1	All	Both
Airport Drive - 7	Promote private insurance	M	33	4.2	All	Both
Airport Drive - 8	Continue Stormwater Drainage Projects	M	44	3.1, 3.3	Flood	Both
Airport Drive - 9	Promote Stormwater regulations and Practices	M	38	2.1-3, 4.2	Flood	Both
Airport Drive - 10	Promote NOAA weather radios and safe rooms	L	36	4.1, 3.4	All	Neither
Airport Drive - 11	Encourage residents and businesses to clean up creeks	L	33	4.1	Flood	Current
Airport Drive - 12	Develop Emergency Management Plan	L	44	1.2, 1.3	All	Neither
Airport Drive - 13	Plan for future increase of fire hydrants	L	45	3.1	Fire	Both
Alba-1	Enforce Floodplain Ordinance	M	48	2.1	Flood	Both
Alba-2	Apply for grant funding for a safe room/shelter for Alba residents.	H	63	3.1	Tornado /Wind	Neither
Alba-3	Apply for grant funding for a back up power source to operate the water system/sewer systems.	H	69	3.1, 3.3	All	Both
Alba-4	Storm Siren Expansion	H	69	3.4	Wind/Severe Storm	Neither
Alba-5	Apply for grant funding for a back up power source to operate city hall.	H	69	3.1, 3.3	All	Neither
Alba-6	All-Hazards education for Mitigation, Preparedness, Response & Recovery	H	59	4.1	All	Current

Alba-7	Portable Electric Generators	H	59	3.1, 3.3	All	Neither
Alba-8	Public Education of Businesses, homeowners, and residents through continued dissemination of pamphlets and web site.	L	41	4.1	All	Both
Alba-9	Expanded training for all city departments in regards to emergency management.	M	52	1.2	All	Neither
Asbury-1	Update Emergency Plan, Including Evacuation component	H	68	1.2, 1.3	All	Neither
Asbury-2	Promote Reverse 911 and NOAA radios	M	69	4.1	All	Neither
Asbury-3	Distribute Hazard Flyers with bills	M	69	4.1	All	Both
Asbury-4	Apply for funding for Saferoom	M	64	3.1, 3.4	Wind, Tornado	Neither
Carl Jct-1	NFIP – Enforce floodplain Ordinance	H	62	2.1	Flood	Both
Carl Jct-2	Active Building Code Enforcement	H	62	2.3	Fire, Manmade	Both
Carl Jct-3	Active Code enforcement	H	64	2.3	Fire, Manmade	Both
Carl Jct-4	NIMS Training	H	64	1.2	All	Neither
Carl Jct-5	Public Education of Businesses and residents with flyers	H	64	4.1	All	Both
Carl Jct-6	Do Fire Safety Checks	H	62	3.3	Fire	Current
Cartersville1	Enforce Floodplain Ordinance	H	48	2.1	Flood	Both
Cartersville2	Apply for grant funding for a safe room/shelter for Cartersville residents.	H	48	3.1, 3.4	Tornado /Wind	Neither
Cartersville3	Apply for grant funding for a back up power source to operate the water system.	H	69	3.1	All	Both
Cartersville4	Apply for grant funding for a back up power source to operate city hall/police department	H	61	3.1, 3.3	All	Neither
Cartersville5	Public Education of Businesses, homeowners, and residents through continued dissemination of pamphlets and web site.	M	52	4.1	All	Both
Cartersville6	All-Hazards education for Mitigation, Preparedness, Response & Recovery	M	58	4.1	All	Both
Cartersville7	Storm Siren Expansion	M	69	3.4	Tornado /Wind	Neither
Cartersville8	Portable Electric Generators	M	69	3.3	All	Neither
Cartersville9	Expanded training for all city departments in regards to emergency management.	M	69	1.2	All	Neither
Cartersville10	Increase training with students and teachers using campus drills and training	M	69	1.2, 4.1	All	Neither
Carthage - 1	Enforce Floodplain Ordinance to prevent future flooding	H	46	2.1	Flood	Both
Carthage - 2	Active Building Code Enforcement	M	47	2.3	Fire/Wind/ Tornado	Both

Carthage - 3	Active Code Enforcement	M	46	2.3	Fire/Flood	Both
Carthage - 4	Promote Private Insurance	M	36	4.2	Wind/Storm/Flood	Current
Carthage - 5	Continue Stormwater Drainage Projects	H	50	3.3	Flood	Both
Carthage - 6	Promote Stormwater regulations and practices	M	45	2.1-3, 4.1-2	Flood	Both
Carthage - 7	Promote NOAA weather radios and safe rooms	H	41	3.4, 4.1	Flood/Storm/Tornado/Manmade	Neither
Carytown 1	Increase awareness of hazards with informational flyers.	L	63	4.1	All	Both
Carytown 2	Portable Electric Generators for saferoom.	H	65	3.4	Tornado/Ice	Neither
Carytown 3	encourage reverse 911	M	64	4.1	All	Neither
Duenweg1	Acquire flooding areas on Turkey Creek	H	49	3.2	Flood	Future
Duenweg2	Restrict building - Lead & Zinc Mining Waste, Open Pits, and Shafts	H	53	1.2	Manmade	Future
Duenweg3	Training for Hazardous/Explosive Materials	L	55	1.2	Manmade	Neither
Duenweg4	Hazardous Weather- Build Safe Room/Storm Shelter	H	52	3.4	Ice, Flood, Tornado, Manmade	Neither
Duenweg5	Active Building Code Enforcement	M	52	2.3	Manmade	Both
Duenweg6	Stormwater Study	M	55	1.1	Flood	Both
Duenweg7	Emergency Generator for City Hall/ Police Department	H	47	3.3	Tornado/Ice	Neither
Duenweg8	Public Education	H	49	4.1	All	Both
Duquesne - 1	Enforce Stormwater Ordinance to prevent Runoff Flooding	H	47	2.1, 2.2	Flood	Both
Duquesne - 2	Actively Enforce Building Codes	M	47	2.3	Wind, Fire, Tornado	Both
Duquesne - 3	Actively Enforce Codes	M	46	2.3	Fire, Manmade	Both
Duquesne - 4	Promote Private Insurance	M	36	4.2	All	Current
Duquesne - 5	Plan for Road cleanup and clearance after winter and severe storms	H	48	3.3	Wind, Tornado, Winter Weather	Neither
Duquesne - 6	Expand fire hydrant coverage	M	45	3.3	Fire	Both

Fidelity - 1	Active Building Code Enforcement	M	54	2.3	Fire/Wind/Manmade	Both
Fidelity - 2	Active Code enforcement	M	54	2.3	Fire/Wind/Manmade	Both
Fidelity - 3	Portable Electric Generators	M	48	3.3	Tornado/Ice	Neither
Fidelity - 4	Promote private insurance	H	33	4.2	All	Current
Fidelity - 5	Promote NOAA weather radios and safe rooms	M	31	3.4, 4.1	All	Neither
Fidelity - 6	Develop Emergency Management Plan	H	46	1.2, 1.3	All	Neither
City of Jasper-1	Adopt FEMA Floodplain program by ordinance	H	47	1.1	Flood	Both
City of Jasper-2	Apply for funding to assist with building tornado shelter.	M	46	3.1, 3.4	Tornado	Neither
City of Jasper-3	Active Building Code Enforcement	M	43	2.3	All	Both
County-1	NFIP -Enforce Floodplain Ordinance	H	59	2.2	Flood	Both
County-2	Increase ability of GIS to maintain current building a parcel data for hazard risk assessment,	M	54	1.2, 1.3	Flood	Both
County-3	Inventory of County emergency response services	L	48	1.3	Response capabilities	Neither
County-4	Educate Public on the Impacts of Major Disease Outbreak	L	45	4.1	Disease	Neither
County-5	Promote community shelters in existing manufactured/mobile home parks	L	48	3.4	Tornado	Neither
County-6	All-Hazards education for Mitigation, Preparedness, Response & Recovery	M	51	4.1	All	Both
County-7	Educate the Impacts of Severe Weather	M	53	4.1	Flood, Hail, Lightning	Both
County-8	Increase Warning System coverage to the most feasible extent	H	57	1.2, 3.4	Wind/Tornado	Neither
County-9	Reverse 911	H	55	3.4	All	Neither
Joplin-1	NFIP – Continue Compliance by enforcing ordinance	H	59	2.1-2	Flood	Both
Joplin-2	Develop and adopt a "no-rise (in base flood elevation)" clause for the City's Floodplain Ordinances	M	54	1.1	Flood	Both
Joplin-3	Inventory of Joplin emergency response services	L	48	1.3	Response capabilities	Neither
Joplin-4	Educate Public on the Impacts of Major Disease Outbreak	L	45	4.1	Disease	Neither
Joplin-5	Promote community shelters in existing manufactured/mobile home parks	L	48	3.4, 4.1	Tornado	Neither
Joplin-6	All-Hazards education for Mitigation, Preparedness, Response & Recovery	M	51	1.1, 4.1	All	Neither
Joplin-7	Educate the Impacts of Severe Weather	M	53	4.1	Flood, Hail, Lightning	Both

Joplin-8	Increase Warning System coverage to the most feasible extent	H	57	3.4	Wind/Tornado	Neither
Joplin-9	Reverse 911	H	55	1.2	All	Neither
La Russell-1	Apply for grant funding for Siren	H	69	3.1	Wind, Tornado	Neither
La Russell-2	Arrange for Storm shelter	H	69	3.4	Wind, Tornado	Neither
La Russell-3	Adopt an Emergency Manual	H	69	1.2	All	Neither
Neck City-1	Adopt FEMA Floodplain program by ordinance	H	59	1.1, 2.1	Flood	Both
Neck City-2	Apply for funding to assist with building tornado shelter.	M	62	3.1, 3.4	Tornado	Neither
Neck City-3	Promote NOAA weather radios and Reverse 911	M	63	4.1	All	Neither
Neck City-4	Public Education of Businesses, homeowners, and residents through a community newsletter	M	63	4.1	Tornado	Both
Neck City-5	Develop Public Works Department	M	61	1.2	Tornado	Neither
Neck City-6	Portable Electric Generators	M	63	3.3	All	Neither
Oronogo - 1	Enforce new Floodplain Ordinance to prevent future flooding damages	H	48	2.1	Flood	Both
Oronogo - 2	Active Building Code Enforcement	H	54	2.3	All	Both
Oronogo - 3	Active Code enforcement	H	54	2.3	All	Both
Oronogo - 4	NIMS Training	H	45	1.2	All	Neither
Oronogo - 5	Apply for Assistance - Portable Electric Generators	H	48	3.1, 3.3	Tornado /Ice	Neither
Oronogo - 6	Public Education of Businesses and residents by Newsletter	M	36	4.1	All	Both
Oronogo - 7	Promote private insurance	M	33	4.2	All	Current
Oronogo - 8	Apply for Stormwater Drainage Project Funding	H	44	3.1	Flood	Both
Oronogo - 9	Promote NOAA weather radios and reverse 911	L	36	4.1	All	Neither
Oronogo - 10	Encourage residents and businesses to clean up creeks	L	33	4.1	Flood	Current
Purcell-1	NIMS training and coordination with other agencies	H	58	1.2	Flood	Neither
Purcell-2	Public Education through dissemination of flyers and put on yearly open house safety forum	H	63	4.1	Tornado	Both
Purcell-3	Promote Reverse 911	H	69	4.1	All	Neither
Purcell-4	Apply for grant funding for a back up power source to operate the water system/sewer systems.	H	69	3.1, 3.3	Wind/Tornado	Both

Purcell-5	Storm siren expansion	H	69	3.4	All	Neither
Sarcoxie-1	Reverse 911 awareness and access	L	27	4.1	All	Neither
Sarcoxie-2	Emergency Shelter / Fire Station	M	44	3.3, 3.4	Tornado	Neither
Sarcoxie-3	Emergency Power Supply Water Towers	H	47	3.3	All	Both
Sarcoxie-4	Emergency Power Supply Sewer System	H	46	3.3	All	Both
Sarcoxie-5	Emergency Power Supply City Hall / PD	M	32	3.3	All	Neither
Sarcoxie-6	NIMS Training Continuation	L	36	1.2	All	Neither
Sarcoxie-7	Emergency Operation Plan Update & Implementation	M	37	1.2, 1.3	All	Neither
Sarcoxie-8	Stormwater Program Implementation	L	35	1.1	Flood	Both
Sarcoxie-9	Emergency Shelter At Local Mobile Home Park	L	32	3.4	Tornado	Neither
Sarcoxie-10	Emergency Power Supply Nursing Home	M	31	3.3	All	Neither
Sarcoxie-11	Enforce Floodplain Ordinance	L	26	2.1	Flood	Both
Waco-1	Apply for funding for Saferoom	H	62	3.1	Wind, Tornado	Neither
Waco-2	Promote Reverse 911 and NOAA radios	M	68	4.1	All	Neither
Waco-3	Distribute Hazard Flyers during yearly cleanup	M	66	4.1	All	Both
Webb City-1	NFIP - Continue Compliance by enforcing ordinance	M	43	2.1	All	Both
Webb City-2	Apply for Funding assistance for a Saferoom	M	53	3.1, 3.4	Tornado	Neither
Webb City-3	Apply for Funding assistance for Portable Electric Generators	H	64	3.3	Tornado /Ice	Neither
Webb City-4	Apply for Funding assistance for Storm Siren Expansion	L	59	3.1, 3.4	Wind/T orn	Neither
Webb City-5	Stormwater Study	L	60	3.2	Flood	Both
Webb City-6	Public Education of Businesses, homeowners, and residents	L	51	4.1	All	Both
Webb City-7	Apply for Funding assistance for flood control projects and stormwater upgrades	L	51	3.1	Flood	Both
Webb City-8	Apply for Funding assistance for Emergency Power Backup for City Hall	H	63	3.1, 3.3	Tornado /Ice	Neither

Webb City-9	Apply for Funding assistance for Saferoom for trailer park	M	57	3.1, 3.4	Tornado	Neither
Webb City-10	Active Code enforcement	L	57	2.3	All	Both
Avilla School District-1	Safe-room for each location	H	65	3.4	Tornado, Strong storm	Neither
Avilla School District-2	Educate students and parents of hazards with informational flyers	L	62	4.1	All	Both
Avilla School District-3	Increase awareness of students and teachers with campus drills and training	M	67	1.2, 4.1	All	Neither
Avilla School District-4	Educate staff and students on Shelter-in-Place procedures	L	64	1.2, 4.1	Haz-mat	Neither
Avilla School District-5	Educate staff and students on Building Evacuation procedures	M	67	1.2, 4.1	Fire	Neither
Avilla School District-6	Educate staff and students on Lock-down procedures	M	67	1.2, 4.1	Manmade	Neither
Avilla School District-7	Educate staff on Bomb Threat Assessment and Response	M	65	1.2, 1.3	Manmade	Neither
Avilla School District-8	An Emergency Response Team made up of school staff members for each location	L	63	1.2	All	Neither
Carl Jct School-1	Conduct safety drills and educational programs for fire, tornado, shelter-in-place and bus evacuations	H	57	1.2, 4.1	177environment, lightning, wind, fire	Both
Carl Jct School-2	Educate staff on lock down procedures and safety of students in the event of a lock down.	H	63	1.2, 4.1	Hazardous Materials, armed threat	Neither
Carl Jct School-3	Provide CPR and general first aid training to staff, create a list of designated individuals in all buildings.	M	54	1.2, 4.1	All	Neither
Carl Jct School-4	Educate students and staff on infectious diseases and how to prevent the spreading of germs	M	65	1.2, 4.1	Disease	Neither
Carthage R-9 #1	Educate students and staff members regarding buddy room system	H	39	1.2, 4.1	All	Neither

Carthage R-9 #2	Educate students and staff members regarding tornado safety procedures	H	45	1.2, 4.1	Tornado	Both
Carthage R-9 #3	Educate students and staff members regarding intruder lock-down safety procedures	H	43	1.2, 4.1	Man made	Neither
Carthage R-9 #4	Educate students and staff members regarding family reunification procedures.	M	43	1.2, 4.1	All	Neither
Carthage R-9 #5	Actively participate in REMS training	H	47	1.2	All	Neither
Carthage R-9 #6	Improve safety/emergency lighting throughout each building	H	39	3.3	All	Neither
Carthage R-9 #7	Construct safe rooms/shelter at each school	H	50	3.4	All	Neither
Jasper School District-1	Apply for funding to assist with providing a saferoom for the school district	H	48	3.1, 3.4	Tornado	Neither
Jasper School District-2	Educate students and parents of hazards with informational flyers	H	48	4.1	All	Both
Jasper School District-3	Backup generator to provide electricity to central office, cafeteria, and sump pumps.	H	47	3.3	Tornado/Ice/Flood	current
Jasper School District-4	Increase awareness of students and teachers with campus drills and training	H	52	1.2, 4.1	All	Neither
Joplin School District-1	Safe-room for each location	H	65	3.4	Tornado	Neither
Joplin School District-2	Educate students and parents of hazards with informational flyers	M	62	4.1	All	Both
Joplin School District-3	Increase awareness of students and teachers with campus drills and training	H	67	1.2, 4.1	All	Neither
Joplin School District-4	Educate staff and students on Shelter-in-Place procedures	H	64	1.2, 4.1	Haz-Mat	Neither
Joplin School District-5	Educate staff and students on Building Evacuation procedures	H	67	1.2, 4.1	Fire	Neither
Joplin School District-6	Educate staff and students on Lock-down procedures	H	67	1.2, 4.1	Manmade	Neither
Joplin School District-7	Educate staff on Bomb Threat Assessment and Response	M	65	1.2	Manmade	Neither
Joplin School District-8	An Emergency Response Team made up of school staff members for each location	M	63	1.2	All	Neither
Sarcoxis School System-1	Saferoom for each location	3	48	3.4	Tornado	Neither

Sarcoxie School System-2	Educate students and parents of hazards with informational flyers	3	50	4.1	Disease	Both
Sarcoxie School System-3	Increase awareness of students and teachers with campus drills and training	3	52	1.2, 4.1	All	Neither
Webb City School District-1	Apply for grant funding for safe-room for each location	H	65	3.1, 3.4	Tornado	Neither
Webb City School District-2	Educate students and parents of hazards with informational flyers	M	62	4.1	All	Both
Webb City School District-3	Increase awareness of students and teachers with campus drills and training	H	67	1.2, 4.1	All	Neither
Webb City School District-4	Educate staff and students on Shelter-in-Place procedures	H	64	1.2, 4.1	Haz-Mat	Neither
Webb City School District-5	Educate staff and students on Building Evacuation procedures	H	67	1.2, 4.1	Fire	Neither
Webb City School District-6	Educate staff and students on Lock-down procedures	H	67	1.2, 4.1	Manmade	Neither
Webb City School District-7	Educate staff on Bomb Threat Assessment and Response	M	65	1.2	Manmade	Neither
Webb City School District-8	An Emergency Response Team made up of school staff members for each location	M	63	1.2	All	Neither
MSSU-1	Mass Notification	H	65	1.2, 4.1	All	Neither
MSSU-2	Update EOP	H	62	1.2, 1.3	All	Neither
MSSU-3	Education	H	66	4.1	All	Both
MSSU-4	Engineering and design	H	67	3.3	All	Future
Crowder College – 1	All-Hazards education for Mitigation, Preparedness, Response & Recovery	L	51	4.1	All	Both
Crowder College – 2	Additional outdoor warning sirens	M	52	3.4	Wind/Tornado	Neither
Crowder College – 3	Saferoom for each location	M	52	3.4	Tornado	Neither
Crowder College – 4	Backup generator for dorms, classrooms, and offices	H	55	3.3	Tornado /Ice	Neither
Crowder College – 5	Increase awareness of students and teachers with campus drills and training	L	51	4.1	All	Neither

Crowder College – 6	Educate staff and students on Lock-down procedures	M	52	4.1	Manmade	Neither
Crowder College – 7	Revise and update hazard plannings and training on a continual basis	L	50	1.2, 1.3	All	Neither
Crowder College – 8	Create an emergency response team for each location	H	54	1.2	All	Neither

Airport Drive – 1	NFIP –Enforce Floodplain Ordinance
Issue/Background	The Village has adopted the new floodplain ordinance to prevent future flooding
Plan for Implementation and Administration	Restrict/Eliminate development in the existing floodplain and acquire land if necessary
Lead Agency	Village of Airport Drive Engineer
Partners	none
Funding Description	General Budget
Total Cost	Unknown-no building at this time
Benefits (Losses Avoided)	Minimize potential for the creation of future flooding problems, improve water quality, and improve the environment
Completion Date	Ongoing
Airport Drive -2	Active Building Code Enforcement
Issue/Background	Building and Development in Floodplain areas
Plan for Implementation and Administration	Restrict/Eliminate development in the existing floodplain and acquire land if necessary
Lead Agency	Village of Airport Drive Board
Partners	none
Funding Description	none
Total Cost	None
Benefits (Losses Avoided)	Minimize potential for the creation of future flooding problems, sediment and erosion problems, and improve the environment
Completion Date	Ongoing
Airport Drive – 3	Active Code Enforcement
Issue/Background	Code Violations regarding burning, building, stormwater, sediment and erosion, and other Codes
Plan for Implementation and Administration	Enforce Compliance of all Village Codes
Lead Agency	Fire –is Carl Junction Fire District, Rest is by Clerk and County Sheriff
Partners	none
Funding Description	Fire district is contracted for all fire protection, Rest is taken from

	court costs
Total Cost	Unknown- varies
Benefits (Losses Avoided)	Minimize potential for stormwater issues and environmental issues
Completion Date	Ongoing
Airport Drive – 4	NIMS Training
Issue/Background	To receive Federal Funding, all public officials of Airport Drive need to be certified with NIMS
Plan for Implementation and Administration	All new Board Members will take the online course to receive the NIMS Certificate.
Lead Agency	Village of Airport Drive Clerk
Partners	none
Funding Description	General Budget
Total Cost	none
Benefits (Losses Avoided)	Minimize the use of Public Funds on natural disaster incidents
Completion Date	Ongoing
Airport Drive – 5	Portable Electric Generators
Issue/Background	Sewer Lift Stations need to pump to avoid backups and Village Hall needs to operate during any disaster situation
Plan for Implementation and Administration	Install transfer switches on all lift stations for the portable generators and purchase other generators for Village Hall
Lead Agency	Carl Junction Sewer Treatment Plant
Partners	City
Funding Description	Plant takes care of Generator purchase, City takes care of Switches cost
Total Cost	\$25,000
Benefits (Losses Avoided)	Avoid backups of sewer lift stations and the closure of the Village Office
Completion Date	December 2010 completed
Airport Drive – 6	Public Education of Businesses & Residents by Newsletter
Issue/Background	Keeping the Public informed on Emergency Management
Plan for Implementation and Administration	Send out a Quarterly Newsletter with information regarding Emergency Management, Stormwater, etc.
Lead Agency	Village of Airport Drive Clerk
Partners	none
Funding Description	Local Agency
Total Cost	\$1480
Benefits (Losses Avoided)	Minimizes the amount of stormwater in drainage areas, improves the environment, and the debris from disasters
Completion Date	Ongoing

Airport Drive – 7	Promote Private Insurance
Issue/Background	Insurance Coverage on privately owned buildings and property
Plan for Implementation and Administration	Place information regarding the NFIP and the need for private insurance in the Quarterly Newsletter
Lead Agency	Village of Airport Drive clerk
Partners	none
Funding Description	Local Agency
Total Cost	Part of newsletter
Benefits (Losses Avoided)	Minimize the trauma a disaster can have on the community by relieving the stress of loss
Completion Date	Ongoing
Airport Drive – 8	Continue Stormwater Drainage Projects
Issue/Background	Control and management of Stormwater runoff
Plan for Implementation and Administration	Determine area problems and make improvements to the existing drainage areas
Lead Agency	Village of Airport Drive Clerk
Partners	none
Funding Description	Streets fund
Total Cost	\$12,000 per year
Benefits (Losses Avoided)	Minimize flooding issues, erosion, and stormwater runoff
Completion Date	Ongoing
Airport Drive – 9	Promote Stormwater regulations and practices
Issue/Background	Unknowing violations of stormwater regulations and unknowing impact of stormwater
Plan for Implementation and Administration	Educate the Public regarding stormwater regulations and practices, the impact of stormwater on the environment through the Quarterly Newsletter. Also update the current code on Stormwater regulations
Lead Agency	Village of Airport Drive clerk
Partners	none
Funding Description	General fund
Total Cost	Part of newsletter costs
Benefits (Losses Avoided)	Minimize code violations and future impact of stormwater
Completion Date	Ongoing
Airport Drive – 10	Promote NOAA weather radios and safe rooms
Issue/Background	Future weather related disaster preparedness
Plan for Implementation and Administration	Educate the Public regarding weather radios and safe rooms through the Quarterly Newsletter. Purchase a weather radio for Village Hall.

Lead Agency	Village of Airport Drive clerk
Partners	none
Funding Description	General Budget
Total Cost	Part of newsletter costs
Benefits (Losses Avoided)	Minimize loss of life. Preparing for future weather related incidents can provide more time to take cover.
Completion Date	Ongoing
Airport Drive – 11	Encourage residents & businesses to clean up creeks
Issue/Background	Debris and overgrowth in the creek area causes damming and flooding issues
Plan for Implementation and Administration	Educate the Public regarding cleaning up the creek area through the Quarterly Newsletter. Contact the Corps of Engineers regarding clean up of creek.
Lead Agency	Village of Airport Drive clerk
Partners	none
Funding Description	General budget
Total Cost	Part of newsletter costs
Benefits (Losses Avoided)	Minimize debris and overgrowth in the creeks that cause damming and flooding issues
Completion Date	Ongoing
Airport Drive – 12	Develop Emergency Management Plan
Issue/Background	Federal Funding and Emergency Plan process
Plan for Implementation and Administration	Create Plan for adoption and implementation
Lead Agency	Village of Airport Drive clerk
Partners	none
Funding Description	Local Agency
Total Cost	Unknown
Benefits (Losses Avoided)	Time and cost benefits. Community aide and better process
Completion Date	December 2011
Airport Drive – 13	Plan for future increase of fire hydrants
Issue/Background	Coverage of Fire Protection
Plan for Implementation and Administration	Work with outside water companies for fire water lines and fire hydrants.
Lead Agency	Village of Airport Drive Board
Partners	Water District Number 1
Funding Description	General Budget
Total Cost	\$500,000
Benefits (Losses Avoided)	Better insurance premiums for residents and businesses and improvements of fire protection

Completion Date	December 2015
Alba-1	NFIP –Enforce Floodplain Ordinance
Issue/Background	The Village has adopted the new floodplain ordinance to prevent future flooding
Plan for Implementation and Administration	Restrict/Eliminate development in the existing floodplain and acquire land in necessary
Lead Agency	City of Alba Clerk
Partners	none
Funding Description	Part of job description
Total Cost	None additional
Benefits (Losses Avoided)	Minimize potential for the creation of future flooding problems, improve water quality, and improve the environment
Completion Date	Ongoing
Alba-2	Grant funding application for shelter
Issue/Background	The City of Alba is currently without storm shelter capabilities.
Plan for Implementation and Administration	Apply for funding to construct a suitable structure that will safely accommodate Alba residents
Lead Agency	City of Alba Board
Partners	FEMA
Funding Description	State and Federal Agencies
Total Cost	\$500,000
Benefits (Losses Avoided)	Minimize the loss of life during critical weather conditions
Completion Date	December 2014
Alba-3	Grant funding application for water tower power source
Issue/Background	The City of Alba is currently without any back up power to operate our water well if power was lost
Plan for Implementation and Administration	Apply for funding for a stationary generator to power water pumps at the city's well
Lead Agency	City of Alba clerk or Public Works
Partners	none
Funding Description	State Or Federal Agency
Total Cost	\$50,000
Benefits (Losses Avoided)	Allow clean water for drinking, bathing, cooking, and fire control when electric is not available.
Completion Date	December 2011
Alba-4	Storm siren expansion
Issue/Background	The City of Alba currently has one tornado sirens, located to the west of Alba approximately ½ mile from city limits. Current residents in the far east, around Smith Street and to the South East

	may not hear the sirens when they are activated. Another siren is needed in central part of town.
Plan for Implementation and Administration	Apply for funding for tornado siren
Lead Agency	City of Alba Board
Partners	None identified yet
Funding Description	State Or Federal Agency
Total Cost	\$6,000
Benefits (Losses Avoided)	Will expand the range of our current siren system and give advanced warning to more residents
Completion Date	December 2014
Alba-5	Grant funding application for back up power source at city hall.
Issue/Background	The City of Alba is currently without any back up power to allow for continued operations of government facilities if power was lost
Plan for Implementation and Administration	Apply for funding for a stationary generator to power primary systems such as heating, phones, and computer systems at city hall
Lead Agency	City of Alba Clerk
Partners	None identified yet
Funding Description	State Or Federal Agencies
Total Cost	\$50,000
Benefits (Losses Avoided)	Allow city hall to continue operating phone systems to communicate with residents, allow for a location for a warming shelter during winter weather events, and allow city records management to be accessible during outages.
Completion Date	December 2014
Alba-6	Hazard education
Issue/Background	The City of Alba currently has the minimum training relating to limited hazards
Plan for Implementation and Administration	Increased participation in training areas relating to all forms of hazards
Lead Agency	City of Alba Board
Partners	none
Funding Description	State and Federal Agencies
Total Cost	Varies by training source
Benefits (Losses Avoided)	Will allow for more knowledgeable and prepared responses to hazardous events
Completion Date	Ongoing
Alba-7	Portable generators
Issue/Background	The City of Alba public works has no mobile power source to operate equipment and/or pumps to assist during an emergency event or post disaster cleanup

Plan for Implementation and Administration	Apply for funding for two or more mobile or truck mounted generators
Lead Agency	Alba Public Works
Partners	none
Funding Description	State Or Federal Agencies
Total Cost	\$40,000
Benefits (Losses Avoided)	Would allow for city workers to assist during and after emergencies with power sources for such things as work lights, power tools, and water pumps
Completion Date	December 2014
Alba-8	Public awareness
Issue/Background	The City of Alba currently addresses public awareness relating to emergency situations through posts on our city website as well as publications printed and dispersed yearly to residents
Plan for Implementation and Administration	Continue with current process and increased exposure to residents of our city
Lead Agency	City of Alba volunteer
Partners	none
Funding Description	none
Total Cost	No cost
Benefits (Losses Avoided)	Keeps residents posted to new ideas and suggestions regarding safety and planning during emergency situations.
Completion Date	Ongoing
Alba-9	Expanded training
Issue/Background	The City of Alba currently has the minimum training relating to hazards for city wide involvement.
Plan for Implementation and Administration	Encourage participation from city government, street department, and fire department to attend training in hazard preparedness
Lead Agency	City of Alba Board
Partners	none
Funding Description	State and Federal Agencies
Total Cost	Unknown – probably minimal
Benefits (Losses Avoided)	Will allow for stronger resources and better mutual aid in the event of a hazardous event
Completion Date	Ongoing
Asbury-1	Update Emergency Management Plan and include Evacuation Plan
Issue/Background	The EOP is out of date and does not include an evacuation plan
Plan for Implementation and Administration	Review and update current plan and develop an evacuation component for possible chemical spills

Lead Agency	City of Asbury Board and Clerk
Partners	none
Funding Description	none
Total Cost	none
Benefits (Losses Avoided)	Improve emergency response to emergencies
Completion Date	June, 2011
Asbury-2	Promote Reverse 911 and NOAA radios
Issue/Background	City has no storm siren yet citizens need warning of hazards
Plan for Implementation and Administration	Promote reverse 911 and NOAA radios on bills
Lead Agency	City of Asbury Clerk
Partners	none
Funding Description	none
Total Cost	none
Benefits (Losses Avoided)	Increase citizen time to seek shelter by weather warning timeliness. Prevent death or injury
Completion Date	Ongoing
Asbury – 3	Provide informational flyers when sending out bills
Issue/Background	Residents could use better information of hazards and mitigation strategies
Plan for Implementation and Administration	City will print out hazard information flyers to distribute with bills timed to upcoming issues (pre-summer and winter)
Lead Agency	City of Asbury Clerk
Partners	none
Funding Description	Local funding
Total Cost	unknown- minimal. (community is small)
Benefits (Losses Avoided)	Helps prepare citizens for future weather issues
Completion Date	Ongoing
Asbury-4	Apply for funding to build a saferoom
Issue/Background	There are no tornado shelters within the City
Plan for Implementation and Administration	apply for funding to construct a saferoom
Lead Agency	City of Asbury
Partners	FEMA/SEMA
Funding Description	Federal
Total Cost	\$300,000
Benefits (Losses Avoided)	Prevent loss of life in wind and tornado storms
Completion Date	December, 2014

Carl Junction – 1	NFIP –Enforce Floodplain Ordinance
Issue/Background	The City has adopted the new floodplain ordinance to prevent future flooding
Plan for Implementation and Administration	Restrict/Eliminate development in the existing floodplain and acquire land if necessary
Lead Agency	City of Carl Junction Administrator, Building Inspector, and Clerk
Partners	none
Funding Description	Local, State and Federal Agencies
Total Cost	Unknown- from Fees
Benefits (Losses Avoided)	Minimize potential for the creation of future flooding problems, improve water quality, and improve the environment
Completion Date	Ongoing
Carl Junction -2	Active Building Code Enforcement
Issue/Background	Building with substandard wire and other unsafe Building practices
Plan for Implementation and Administration	Enforce Building Codes to protect buildings and residents
Lead Agency	City of Carl Junction Building Inspector
Partners	none
Funding Description	General Budget- fees from permit costs
Total Cost	\$25,000 per year
Benefits (Losses Avoided)	Protect lives and structures
Completion Date	Ongoing
Carl Junction – 3	Active Code Enforcement
Issue/Background	Code Violations regarding stormwater, sediment and erosion, and other Codes
Plan for Implementation and Administration	Enforce Compliance of all City Codes
Lead Agency	City of Carl Junction Code Enforcement officer
Partners	none
Funding Description	General Budget
Total Cost	\$24,000 per year
Benefits (Losses Avoided)	Minimize potential for stormwater issues and 188environmental issues
Completion Date	Ongoing
Carl Junction – 4	NIMS Training
Issue/Background	All public officials of Carl Junction need to be certified with NIMS
Plan for Implementation and Administration	All new Board Members will take the online course to receive the NIMS Certificate.
Lead Agency	Carl Junction Fire District

Partners	City
Funding Description	Local Agency
Total Cost	none
Benefits (Losses Avoided)	Improve Emergency Response and agency coordination
Completion Date	Ongoing
Carl Junction – 5	Public Education of Businesses & Residents with Flyers
Issue/Background	Keeping the Public informed on hazards and Mitigation
Plan for Implementation and Administration	Send out flyers with information regarding Hazards and Mitigation Practices
Lead Agency	Carl Junction Fire District
Partners	none
Funding Description	Fire Dept.
Total Cost	Unknown- part of community education program
Benefits (Losses Avoided)	Minimize damages and injuries due to hazards
Completion Date	Ongoing
Carl Junction – 6	Do fire safety Checks
Issue/Background	High weeds and hazards around houses
Plan for Implementation and Administration	visit interested residents and do a fire hazard inspection to eliminate hazards and reduce risk
Lead Agency	Carl Junction Fire District
Partners	none
Funding Description	none
Total Cost	None
Benefits (Losses Avoided)	Minimize the Fire Risks to Housing
Completion Date	Ongoing
Cartersville-1	NFIP –Enforce Floodplain Ordinance
Issue/Background	The City has adopted the new floodplain ordinance to prevent future flooding
Plan for Implementation and Administration	Restrict/Eliminate development in the existing floodplain and acquire land in necessary
Lead Agency	City of Cartersville Public Works Supr.
Partners	none
Funding Description	Streets
Total Cost	Unknown- part of job
Benefits (Losses Avoided)	Minimize potential for the creation of future flooding problems, improve water quality, and improve the environment. Make flood insurance available for 2000 residents
Completion Date	Ongoing
Cartersville-2	Grant funding application for shelter

Issue/Background	The City of Carterville is currently without storm shelter capabilities.
Plan for Implementation and Administration	Apply for funding to construct a suitable structure that will safely accommodate Carterville residents
Lead Agency	City of Carterville clerk
Partners	none
Funding Description	State and Federal Agencies
Total Cost	\$500,000
Benefits (Losses Avoided)	Minimize the loss of life during critical weather conditions. Expect to protect 1000 people
Completion Date	December 2014
Carterville-3	Grant funding application for water tower power source
Issue/Background	The City of Carterville is currently without any back up power to operate our water well if land line power was lost
Plan for Implementation and Administration	Apply for funding for a stationary generator to power water pumps at the city's well
Lead Agency	City of Carterville Clerk or Public Works Supr
Partners	none
Funding Description	State and Federal Agencies
Total Cost	\$100,000
Benefits (Losses Avoided)	Allow clean water for drinking, bathing, cooking, and fire control when electric is not available.
Completion Date	December 2012
Carterville-4	Grant funding application for back up power source at city hall/police department
Issue/Background	The City of Carterville is currently without any back up power to allow for continued operations of government facilities if land line power was lost
Plan for Implementation and Administration	Apply for funding for a stationary generator to power primary systems such as heating, phones, and computer systems at city hall
Lead Agency	City of Carterville Clerk or Police Chief
Partners	none
Funding Description	State and Federal Agencies
Total Cost	\$40,000
Benefits (Losses Avoided)	Allow city hall and police to continue operating phone systems to communicate with residents, allow for a location for a warming shelter during winter weather events, and allow police records management to be accessible during outages.
Completion Date	December 2012
Carterville-5	Public awareness
Issue/Background	The City of Carterville currently addresses public awareness

	relating to emergency situations through posts on our city website as well as publications printed and dispersed yearly to residents
Plan for Implementation and Administration	Continue with current process and increased exposure to residents of our city
Lead Agency	Carterville Police Department
Partners	none
Funding Description	General Funds
Total Cost	\$400-\$1200 annually
Benefits (Losses Avoided)	Keeps residents posted to new ideas and suggestions regarding safety and planning during emergency situations.
Completion Date	Ongoing
Carterville-6	Hazard education
Issue/Background	The City of Carterville currently has the minimum training relating to limited hazards
Plan for Implementation and Administration	Increased participation in training areas relating to all forms of hazards
Lead Agency	Carterville Police Department
Partners	none
Funding Description	State and Federal Agencies
Total Cost	Varies by training source
Benefits (Losses Avoided)	Will allow for more knowledgeable and prepared responses to hazardous events
Completion Date	Ongoing
Carterville-7	Storm siren expansion
Issue/Background	The City of Carterville currently operates two tornado sirens, however due to the geographical layout of our city, another siren is needed in the Northern most part of town
Plan for Implementation and Administration	Apply for funding for tornado siren
Lead Agency	City of Carterville Clerk
Partners	None identified yet
Funding Description	State or Federal Agencies
Total Cost	\$7,000
Benefits (Losses Avoided)	Will expand the range of our current siren system and give advanced warning to more residents (1000 expected)
Completion Date	December 2013
Carterville-8	Portable generators
Issue/Background	The City of Carterville public works has no mobile power source to operate equipment and/or pumps to assist during an emergency event or post disaster cleanup
Plan for Implementation and	Apply for funding for two or more mobile or truck mounted

Administration	generators
Lead Agency	Carterville Public Works
Partners	none
Funding Description	Water Dept
Total Cost	\$30,000
Benefits (Losses Avoided)	Would allow for city workers to assist during and after emergencies with power sources for such things as work lights, power tools, and water pumps
Completion Date	December 2012
Carterville-9	Expanded training
Issue/Background	The City of Carterville currently has the minimum training relating to hazards and only training provided to law enforcement rather than city wide involvement.
Plan for Implementation and Administration	Encourage participation from city government, street department, and fire department to attend training in hazard preparedness
Lead Agency	Carterville Police Department
Partners	none
Funding Description	State and Federal Agencies
Total Cost	Varies by training source
Benefits (Losses Avoided)	Will allow for stronger resources and better mutual aid in the event of a hazardous event
Completion Date	Ongoing
Carterville-10	School training
Issue/Background	The City of Carterville and the Carterville elementary have minimal training with working together in the event of a school hours emergency
Plan for Implementation and Administration	Increased relations with school administration leading to more involvement with school drills and idea sharing
Lead Agency	Carterville Police Department
Partners	R-7 School district
Funding Description	N/A
Total Cost	unknown
Benefits (Losses Avoided)	Will increase the preparedness and establish mutual aid when there is a school related emergency (manmade or natural)
Completion Date	Ongoing
Carthage Mo. -1	NFIP –Enforce Floodplain Ordinance
Issue/Background	The Village has adopted the new floodplain ordinance to prevent future flooding
Plan for Implementation and Administration	Restrict/Eliminate development in the existing floodplain and acquire land if necessary

Lead Agency	Carthage Public Works Director
Partners	Jasper County
Funding Description	General Budget
Total Cost	Unknown- part of job description
Benefits (Losses Avoided)	Minimize potential for the creation of future flooding problems, improve water quality, and improve the environment. 5,000 households can purchase Flood Insurance
Completion Date	Ongoing
Carthage Mo. – 2	Active Building Code Enforcement
Issue/Background	Building and Development in Floodplain areas
Plan for Implementation and Administration	Restrict/Eliminate development in hazard areas
Lead Agency	Building inspector
Partners	none
Funding Description	General Fund
Total Cost	\$90,000 Per year
Benefits (Losses Avoided)	Minimize potential for the creation of future flooding problems, sediment and erosion problems, and improve the environment
Completion Date	Ongoing
Carthage – 3	Active Code Enforcement
Issue/Background	Code Violations regarding burning, building, stormwater, sediment and erosion, and other Codes
Plan for Implementation and Administration	Enforce Compliance of all codes
Lead Agency	Public Works Code Enforcer
Partners	none
Funding Description	General Budget
Total Cost	\$75,000
Benefits (Losses Avoided)	Minimize potential for stormwater issues and environmental issues
Completion Date	Ongoing
Carthage – 4	Promote Private Insurance
Issue/Background	Insurance Coverage on privately owned buildings and property
Plan for Implementation and Administration	Place information regarding the NFIP and the need for private insurance in local media.
Lead Agency	City of Carthage Public Works Director and Administrator
Partners	none
Funding Description	Local Agency
Total Cost	Unknown
Benefits (Losses Avoided)	Minimize the trauma a disaster can have on the community by

	relieving the stress of loss
Completion Date	Ongoing
Carthage – 5	Continue Stormwater Drainage Projects
Issue/Background	Control and management of Stormwater runoff
Plan for Implementation and Administration	Determine area problems and make improvements to the existing drainage areas
Lead Agency	City Administrator and Public Works Director
Partners	none
Funding Description	Storm Water Tax
Total Cost	\$30,000
Benefits (Losses Avoided)	Minimize flooding issues, erosion, and stormwater runoff
Completion Date	Ongoing
Carthage – 6	Promote Stormwater regulations and practices
Issue/Background	Unknowing violations of stormwater regulations and unknowing impact of stormwater
Plan for Implementation and Administration	Educate the Public regarding stormwater regulations and practices, the impact of stormwater on the environment through local media. Also update the current code on Stormwater regulations
Lead Agency	City of Carthage Public Works Director and Administrator
Partners	none
Funding Description	General fund
Total Cost	Unknown
Benefits (Losses Avoided)	Minimize code violations and future impact of stormwater
Completion Date	Ongoing
Carthage – 7	Promote NOAA weather radios and safe rooms
Issue/Background	Future weather related disaster preparedness
Plan for Implementation and Administration	Educate the Public regarding weather radios and safe rooms through the local media.
Lead Agency	City of Carthage Administrator
Partners	none
Funding Description	Local Agency
Total Cost	Unknown
Benefits (Losses Avoided)	Minimize loss of life. Preparing for future weather related incidents can provide more time to take cover.
Completion Date	Ongoing
Carytown 1 Action ID	Action
Issue/Background	Raise public awareness
Plan for Implementation and	Distribute information to residents thru available brochures

Administration	
Lead Agency	Village Clerk
Partners	none
Funding Description	State and Federal Agencies
Total Cost	none
Benefits (Losses Avoided)	Minimize losses due to lack of information
Completion Date	Ongoing
Carytown 2 Action ID	Action
Issue/Background	Portable electric generator for safe room
Plan for Implementation and Administration	Purchase and secure storage
Lead Agency	Village Board
Partners	None identified yet
Funding Description	State or Federal Agencies
Total Cost	Estimate - \$3,800.00
Benefits (Losses Avoided)	Minimize limitations of safe room capabilities.
Completion Date	Target December 2010.
Carytown 3 Action ID	Action
Issue/Background	Encourage reverse 911
Plan for Implementation and Administration	Distribute information to residents
Lead Agency	Village Clerk
Partners	None
Funding Description	None
Total Cost	None
Benefits (Losses Avoided)	Minimize losses due to lack of information
Completion Date	Ongoing
Duenweg-1	Acquire Flooding areas along Turkey Creek
Issue/Background	Lowland area around Turkey Creek, which runs through the City of Duenweg's southern and southwestern city limits, are already identified by FEMA as being flood prone. Any future development throughout this area would exacerbate the problem.
Plan for Implementation and Administration	Development within floodplains is already regulated by FEMA. The City of Duenweg would prefer to acquire the land along Turkey Creek for use as a public park, including walking trails, sports fields, and more, which would further restrict development and preserve the waterway.
Lead Agency	City of Duenweg Administrative Asst
Partners	none
Funding Description	Grants and loans from state and federal agencies, complemented

	with the City of Duenweg Parks and Recreation sales tax.
Total Cost	\$100,000
Benefits (Losses Avoided)	Benefits include preservation of green space and the waterway for acceptable uses, the city deems safe and the prevention of potential losses from flooding if development were to occur within the identified floodplain.
Completion Date	December 2050
Duenweg-2	Lead & Zinc Mining Wastes, Open Pits, and Shafts Controls
Issue/Background	Duenweg was at the southeastern end of the Oronogo-Duenweg Mining Belt. Years of lead and zinc mining left piles of waste, open pits, and mine shafts dotting the land both inside and outside the Duenweg city limits. Those lands are now part of the EPA Superfund Cleanup.
Plan for Implementation and Administration	The City of Duenweg can, by ordinance, restrict residential construction from building within mined sites that contain high lead concentrations. Commercial development would be encouraged in these areas as prescribed by the EPA.
Lead Agency	City of Duenweg Mayor
Partners	EPA, DNR, Jasper County Health Department
Funding Description	No funding would be needed for the City of Duenweg
Total Cost	No cost to the City of Duenweg or its residents.
Benefits (Losses Avoided)	Benefits include reducing potential lead exposure to children, thereby reducing health risks and associated cost. While environment construction would be restricted, commercial development would be encouraged and would financially benefit the City, State, and Federal governments.
Completion Date	December 2014
Duenweg-3	Training for Hazardous/ Explosive Materials
Issue/Background	Duenweg is home base for two international trucking companies that haul explosives and other hazardous materials. The City is also very close to EVB EEC and Dyno Nobel.
Plan for Implementation and Administration	The Department of Defense, ATF, and other federal, state, and local agencies monitor the movements of these materials. On a local level, the Duenweg Police Department and the Duenweg Volunteer Fire Department train frequently with federal officials.
Lead Agency	The Federal Government, specifically, the US Department of Defense
Partners	ATF, FBI, Secret Service, Homeland Security, and other federal, state, county, and local law enforcement, including that of the City of Duenweg
Funding Description	No funding would be required from the City of Duenweg
Total Cost	No cost to the City of Duenweg or its residents
Benefits (Losses Avoided)	The City of Duenweg relies on the DOD, other agencies and the

	companies themselves to protect the residents in and near the City from terrorist threats, accidents, and more.
Completion Date	Ongoing
Duenweg-4	Hazardous Weather Safe Room/Storm Shelter
Issue/Background	The City of Duenweg historical tornado activity is above Missouri state average and it is 154% greater than the overall U.S. average.
Plan for Implementation and Administration	The City of Duenweg has a building site available near the elementary school that could be used for the construction of a safe room/storm shelter. This would be beneficial to residents, students, and teachers in case of hazardous weather or even in the event of a hazardous material concern.
Lead Agency	City of Duenweg Clerk
Partners	Joplin R-8 School District possibly
Funding Description	Grants and loans from state and agencies and funding from the Joplin R-8 School District, complemented with the City of Duenweg's available funds.
Total Cost	\$750,000
Benefits (Losses Avoided)	Benefits include protection from violent or hazardous weather for the residents of the City of Duenweg and students and teachers at the Duenweg Elementary School and would contribute greatly to the prevention of loss of human life (1000 residents)
Completion Date	December 2014
Duenweg-5	Active Building Code Enforcement
Issue/Background	In order to ensure safe building practices, in both commercial and residential construction, building codes need to be developed and enforced.
Plan for Implementation and Administration	The City of Duenweg has, by ordinance, adopted the 2003 ICC Building Codes and the 2003 ICC Residential Building Codes. The City has, on call, a building code enforcement officer.
Lead Agency	City of Duenweg Code Enforcement Officer
Partners	none
Funding Description	Fees generated from Building Permits, Inspection Fees, and Fines for non-compliance
Total Cost	Varies with type of construction
Benefits (Losses Avoided)	Benefits include the uniformity of construction within the City of Duenweg, safety for those residing or working in such environment, and preservation of property values. Through Code Enforcement, dangerous buildings can be upgraded, renovated, or replaced.
Completion Date	Ongoing
Duenweg-6	Stormwater Study
Issue/Background	A history of mining in the area and construction within the City of

	Duenweg has created areas of poor stormwater runoff conditions, causing flooding in residents' yards and erosion.
Plan for Implementation and Administration	An engineering study of stormwater runoff throughout the city needs to be performed- problems need to be identified, resolutions determined, and stormwater properly directed.
Lead Agency	City of Duenweg
Partners	EPA
Funding Description	EPA cleanup will contribute greatly towards the remedy of some runoff issues within the City of Duenweg. Other issues will be funded through the City's stormwater sales tax.
Total Cost	\$30,000
Benefits (Losses Avoided)	Benefits include the reclamation of some of the City's residents' yards, therefore property values and stopping the erosion of their homesteads.
Completion Date	December 2014
Duenweg-7	Emergency Generator for City Hall and Police Department
Issue/Background	Increasing severity of recent ice storms, thunderstorms, wind storms, and the ever-present threat of tornadoes creates service issues for Empire District Electric Company.
Plan for Implementation and Administration	Emergency electrical generators for both City Hall and the City Municipal Building, home to the Police Department, would allow the City to continue "business as usual" in the event of the loss of electrical power.
Lead Agency	City of Duenweg Public Works Director
Partners	none
Funding Description	Grants and loans from State and Federal agencies, complemented with the City of Duenweg capital improvements sales tax.
Total Cost	\$40,000
Benefits (Losses Avoided)	Benefits include the continuation of city services, even during or after the loss of electrical power. City Hall and the Municipal Building could serve as temporary shelter for residents.
Completion Date	December 2012
Duenweg-8	Public Education
Issue/Background	FEMA, SEMA, NOAA, and many other federal, state, and local agencies provide health and safety materials. Informed residents make better choices.
Plan for Implementation and Administration	The City of Duenweg can utilize the city newsletter for the distribution of such information and can use its website and Facebook
Lead Agency	City of Duenweg Clerk
Partners	none
Funding Description	Current funding for the printing and postage of the city comes from the City's general fund. Outside funding would be greatly

	appreciated by the City to cover the printing costs of additional materials to be included within the newsletter. Placing materials on the internet is easy and fairly inexpensive to do.
Total Cost	10 cents per page of additional materials to be included in the newsletter. \$1,000
Benefits (Losses Avoided)	Benefits keeping the public informed of the latest health and safety guidelines, including contagious disease and epidemic concerns.
Completion Date	Ongoing
Duquesne Mo. -1	Continue Stormwater Drainage Projects
Issue/Background	Have issues with management of Stormwater runoff causing flooding of 2 roadbeds
Plan for Implementation and Administration	Determine area problems and make improvements to the existing drainage areas
Lead Agency	City of Duquesne Mayor And Administrative Asst
Partners	none
Funding Description	Local Agency
Total Cost	Unknown
Benefits (Losses Avoided)	Minimize flooding issues, erosion, and stormwater runoff
Completion Date	December 2014
Duquesne Mo. – 2	Active Building Code Enforcement
Issue/Background	Keeping buildings to safety standards
Plan for Implementation and Administration	Building Inspector will review plans and inspect building to prevent substandard building
Lead Agency	City of Duquesne Building Inspector and Police Chief
Partners	none
Funding Description	General Budget-comes from building fees
Total Cost	\$7,800 per year
Benefits (Losses Avoided)	Minimize building damages from wind, fire, and substandard practices
Completion Date	Ongoing
Duquesne – 3	Active Code Enforcement
Issue/Background	Code Violations regarding burning and other Codes
Plan for Implementation and Administration	Enforce Compliance of all codes to prevent spread of fires and hazardous waste contamination
Lead Agency	Police Dept
Partners	none
Funding Description	Police Fund- from fines
Total Cost	Unknown-
Benefits (Losses Avoided)	Minimize fire risk and groundwater contamination

Completion Date	Ongoing
Duquesne – 4	Promote Private Insurance
Issue/Background	Not all residents have Insurance Coverage on privately owned buildings and property
Plan for Implementation and Administration	Place information regarding the need for private insurance in local media.
Lead Agency	City of Duquesne Clerk
Partners	none
Funding Description	General fund
Total Cost	Unknown
Benefits (Losses Avoided)	Minimize the trauma a disaster can have on the individuals by relieving the stress of loss
Completion Date	Ongoing
Duquesne – 5	Update plan for road clearance from storm damage
Issue/Background	Keeping roads clear after storms
Plan for Implementation and Administration	Contact other agencies and private contractor to be sure they are onboard for clearance work
Lead Agency	City of Duquesne Police Dept
Partners	MoDOT and Special Road District
Funding Description	none
Total Cost	none
Benefits (Losses Avoided)	Keeping roads clear after storms so that emergency services can be dispatched
Completion Date	Ongoing
Duquesne – 6	Promote Stormwater regulations and practices
Issue/Background	Unknowing violations of stormwater regulations and unknowing impact of stormwater
Plan for Implementation and Administration	Educate the Public regarding stormwater regulations and practices, the impact of stormwater on the environment through local media. Also update the current code on Stormwater regulations
Lead Agency	City of Duquesne Mayor
Partners	none
Funding Description	none
Total Cost	none
Benefits (Losses Avoided)	Minimize code violations and future impact of stormwater
Completion Date	Ongoing
Duquesne – 7	Promote NOAA weather radios and safe rooms
Issue/Background	Future weather related disaster preparedness

Plan for Implementation and Administration	Educate the Public regarding weather radios and safe rooms through the local media.
Lead Agency	City of Duquesne police dept
Partners	none
Funding Description	none
Total Cost	Unknown
Benefits (Losses Avoided)	Minimize loss of life. Preparing for future weather related incidents can provide more time to take cover.
Completion Date	Ongoing
Fidelity -1	Active Building Code Enforcement
Issue/Background	Building and Development in Floodplain areas
Plan for Implementation and Administration	Inspection of plans and/or construction by 2 or more members of the Fidelity City Council
Lead Agency	City of Fidelity board
Partners	none
Funding Description	none
Total Cost	none
Benefits (Losses Avoided)	To avoid depreciation of homes nearby caused by the construction of poor quality homes or outbuildings and prevent unsafe new buildings
Completion Date	Ongoing
Fidelity – 2	Active Code Enforcement
Issue/Background	Code Violations regarding burning, building, stormwater, sediment and erosion, and other Codes
Plan for Implementation and Administration	Enforce Compliance of all Village Codes
Lead Agency	City of Fidelity board
Partners	none
Funding Description	None
Total Cost	None
Benefits (Losses Avoided)	Safety of local citizens
Completion Date	Ongoing
Fidelity – 3	Portable Electric Generators
Issue/Background	Recommend to local residents to purchase in case of loss of electricity
Plan for Implementation and Administration	Word of mouth and mail letters to local residents
Lead Agency	City of Fidelity board
Partners	none
Funding Description	General Budget

Total Cost	Cost of postage and printing of letters
Benefits (Losses Avoided)	Safer for residents to have alternate source of electricity
Completion Date	Ongoing
Fidelity – 4	Promote Private Insurance
Issue/Background	Insurance Coverage on privately owned buildings and property
Plan for Implementation and Administration	Stress the importance of insurance on properties by mailing letters to local residents
Lead Agency	City of Fidelity board
Partners	none
Funding Description	General Budget
Total Cost	Cost of postage and printing letters
Benefits (Losses Avoided)	Minimize the trauma a disaster can have on the community by relieving the stress of loss
Completion Date	Ongoing
Fidelity – 5	Promote NOAA weather radios and safe rooms
Issue/Background	Future weather related disaster preparedness
Plan for Implementation and Administration	Educate the Public regarding weather radios and safe rooms with a letter
Lead Agency	City of Fidelity board
Partners	none
Funding Description	General Budget
Total Cost	Cost of postage and printing of letters
Benefits (Losses Avoided)	Minimize loss of life. Preparing for future weather related incidents can provide more time to take cover.
Completion Date	Ongoing
Fidelity – 6	Develop Emergency Management Plan
Issue/Background	Federal Funding and Emergency Plan process
Plan for Implementation and Administration	Create Plan for adoption and implementation
Lead Agency	City of Fidelity Board
Partners	none
Funding Description	none
Total Cost	none
Benefits (Losses Avoided)	Time and cost benefits. Community aide and better process
Completion Date	December 2012
City of Jasper-1	Adopt FEMA Floodplain Program by ordinance
Issue/Background	City needs to adopt FEMA Floodplain Program to protect residents and landowners in existing identified floodplain.

Plan for Implementation and Administration	Obtain, complete, submit NFIP application.
Lead Agency	City of Jasper board
Partners	FEMA
Funding Description	General
Total Cost	\$100
Benefits (Losses Avoided)	Reduce impact of future floods. Make flood insurance available to 40 households
Completion Date	December, 2011
City of Jasper-2	Apply for funding to assist with building tornado shelter
Issue/Background	City of 1011 has no existing tornado shelter. Facility needed for protection during tornado events.
Plan for Implementation and Administration	Designate site for facility. Submit funding application.
Lead Agency	City of Jasper Board and clerk
Partners	none
Funding Description	State and Federal Agencies
Total Cost	\$750,000.00
Benefits (Losses Avoided)	Reduce potential loss of life due to high winds/tornadoes
Completion Date	December, 2012
City of Jasper-3	Active Building Code Enforcement
Issue/Background	Maximize Code Compliance.
Plan for Implementation and Administration	Appointed Code Enforcement Officer (council member not paid)
Lead Agency	City of Jasper
Partners	none
Funding Description	none
Total Cost	none
Benefits (Losses Avoided)	Decrease damage/safety risk from structures.
Completion Date	Ongoing
Jasper County-1	NFIP –Enforce Floodplain Ordinance
Issue/Background	The County has adopted the new floodplain ordinance to prevent future flooding
Plan for Implementation and Administration	Restrict/Eliminate development in the existing floodplain and acquire land in necessary
Lead Agency	Jasper County Public Works
Partners	Harry S. Truman Coordinating Council
Funding Description	State and Federal Agencies and Jasper County Road Funds
Total Cost	\$25000 planning plus cost of land

Benefits (Losses Avoided)	Minimize potential for the creation of future flooding problems, improve water quality, and improve the environment
Completion Date	Annual Review
Jasper County-2	Increase ability of GIS to maintain current building parcel data for hazard risk assessment.
Issue/Background	GIS needed to better manage land use
Plan for Implementation and Administration	Employee current GIS Manager to expand program
Lead Agency	Jasper County GIS
Partners	Harry S. Truman Coordinating Council
Funding Description	State and Federal Agencies and Jasper County
Total Cost	\$25,000
Benefits (Losses Avoided)	Provide objective overview of actual land usage, reducing litigation cost and increasing efficiencies.
Completion Date	5 year cycle
-Jasper County-3	Inventory County Emergency Response Services
Issue/Background	No one service has sufficient resources for every need
Plan for Implementation and Administration	Inventory resources each year prior to September 01
Lead Agency	Jasper County Emergency Management
Partners	FEMA NISM Standards
Funding Description	State and Federal Agencies and EMPG Funds
Total Cost	\$1500/year
Benefits (Losses Avoided)	Avoid duplication and unnecessary expenditures
Completion Date	Yearly Review
Jasper County-4	Educate public on impacts of Major Disease Outbreak
Issue/Background	Public does not understand impact of such an outbreak
Plan for Implementation and Administration	Use Medical Sub-Committee to advertise and educate
Lead Agency	Jasper County Public Health
Partners	State and Federal Health Agencies
Funding Description	State and Federal Agencies and Health Dept funds
Total Cost	\$500/year
Benefits (Losses Avoided)	Increased productivity during an outbreak due to prior planning
Completion Date	Yearly Review
Jasper County-5	Promote community shelters in existing manufactured/mobile home parks
Issue/Background	Most mobile home parks do not have a shelter

Plan for Implementation and Administration	consult with and advertise to park owners to promote use of shelters
Lead Agency	Jasper County Emergency Management
Partners	FEMA / SEMA
Funding Description	State and Federal Agencies and EMPG Funds
Total Cost	\$250 per year
Benefits (Losses Avoided)	Decrease loss of life and injuries
Completion Date	Yearly Review
Jasper County-6	All-hazards Education for Mitigation, Preparedness, Response & Recovery
Issue/Background	Public is underprepared to react to disasters and their consequences
Plan for Implementation and Administration	Present a series of public education forums throughout the county
Lead Agency	Jasper County Emergency Management
Partners	none
Funding Description	State and Federal Agencies and EMPG funds
Total Cost	\$500 per year
Benefits (Losses Avoided)	Prepare the public to react to, recover from and mitigate disaster effects
Completion Date	Yearly Review
Jasper County-7	Educate the Public on the impacts of Severe Weather
Issue/Background	Public needs to understand the result of severe weather on their life's and property
Plan for Implementation and Administration	Continue Severe Weather classes, advertisement and handouts.
Lead Agency	Jasper County Emergency Management
Partners	FEMA, SEMA and NWS
Funding Description	State and Federal Agencies and EMPG Funds
Total Cost	\$500 / year
Benefits (Losses Avoided)	Decrease cost in lives and property thanks to proper planning
Completion Date	Yearly Review
Jasper County-8	Increase Warning System coverage to the most feasible extent
Issue/Background	As a County, public is not well warned of danger from threats and incidents
Plan for Implementation and Administration	Promote the use of Weather Radios and Sirens
Lead Agency	Jasper County Public Works
Partners	FEMA and SEMA and NWS
Funding Description	State and Federal Agencies and County Funding

Total Cost	\$500 / Yearly
Benefits (Losses Avoided)	Provide sufficient warning time for sheltering and protection, reducing loss of life
Completion Date	Yearly Review
Jasper County-9	Reverse 911
Issue/Background	Do not have a good way to warn/advise those not served by Sirens
Plan for Implementation and Administration	Install and promote use of R911 in small communities and rural areas
Lead Agency	Jasper County Commission
Partners	County Dispatch and County Emergency Management
Funding Description	State and Federal Agencies and County Funds
Total Cost	\$1500 / Year
Benefits (Losses Avoided)	Improve/increase awareness of dangers, reduce loss of life and property
Completion Date	Yearly Review
Joplin-1	NFIP - Continue Compliance
Issue/Background	Current Minimum federal requirements allow fill in the floodplain and rising of the water surface elevation
Plan for Implementation and Administration	Restrict/Eliminate development in the existing floodplain and acquire land in necessary
Lead Agency	Joplin City Public Works
Partners	Harry S Truman Coordinating Council
Funding Description	State and Federal Agencies via Joplin Street Funds
Total Cost	Est \$25000 plus cost of land
Benefits (Losses Avoided)	Minimize potential for the creation of future flooding problems, improve water quality, and improve the environment
Completion Date	Complete some buyouts each year
Joplin-2	Develop and adopt a "no-rise (in base flood elevation)" clause for the City's Floodplain Ordinances
Issue/Background	Needed to enhance Floodplain Ordinances

Plan for Implementation and Administration	Currently adopted and revised, pending approval
Lead Agency	Joplin City PW Department
Partners	FEMA and HSTCC
Funding Description	State and Federal Agencies and Street Funds
Total Cost	Est \$5000 Labor
Benefits (Losses Avoided)	Establishes a max limit to flood rise
Completion Date	December 2011

Joplin-3	Inventory Joplin Emergency Response Services
Issue/Background	No one service has sufficient resources for every need
Plan for Implementation and Administration	Inventory resources each year prior to September 01
Lead Agency	Joplin Emergency Management
Partners	FEMA NIMS Standards
Funding Description	State and Federal Agencies
Total Cost	Unknown Federal cost, local cost est is \$1500
Benefits (Losses Avoided)	Avoid duplication and unnecessary expenditures
Completion Date	Ongoing

Joplin-4	Educate public on impacts of Major Disease Outbreak
Issue/Background	Public does not understand impact of such an outbreak
Plan for Implementation and Administration	Use Medical Sub-Committee to advertise and educate
Lead Agency	Joplin City Public Health
Partners	Joplin/Jasper County Emergency Healthcare Coalition
Funding Description	State and Federal Agencies and Health Dept Funds
Total Cost	Est. \$500/year
Benefits (Losses Avoided)	Increased productivity during an outbreak due to prior planning
Completion Date	Ongoing

Joplin-5	Promote community shelters in existing manufactured/mobile home parks
Issue/Background	Most mobile home parks do not have a shelter
Plan for Implementation and Administration	consult with and advertise to park owners to promote use of shelters
Lead Agency	Joplin Emergency Management
Partners	FEMA recommendations
Funding Description	State and Federal Agencies and EMPG Funds
Total Cost	Est \$500/year

Benefits (Losses Avoided)	Decrease loss of life and injuries
Completion Date	Ongoing
Joplin-6	All-hazards Education for Mitigation, Preparedness, Response & Recovery
Issue/Background	Public is underprepared to react to disasters and their consequences
Plan for Implementation and Administration	Present a series of public education forums throughout the Joplin
Lead Agency	Joplin Emergency Management
Partners	FEMA / SEMA / NWS
Funding Description	State and Federal Agencies and EMPG Funding
Total Cost	\$1500 per year
Benefits (Losses Avoided)	Prepare the public to react to, recover from and mitigate disaster effects
Completion Date	Ongoing
Joplin-7	Educate the Public on the impacts of Severe Weather
Issue/Background	Public needs to understand the result of severe weather on their life's and property
Plan for Implementation and Administration	Continue Severe Weather classes, advertisement and handouts.
Lead Agency	Joplin Emergency Management
Partners	FEMA / SEMA / NWS
Funding Description	State and Federal Agencies and EMPG Funding
Total Cost	\$1500 per year
Benefits (Losses Avoided)	Decrease cost in lives and property thanks to proper planning
Completion Date	Ongoing
Joplin-8	Increase Warning System coverage to the most feasible extent
Issue/Background	As a Joplin, public is not well warned of danger from threats and incidents
Plan for Implementation and Administration	Promote the use of Weather Radios and Upgrade Sirens
Lead Agency	Joplin City Public Works
Partners	FEMA / SEMA / NWS
Funding Description	State and Federal Agencies and EM Funds
Total Cost	Est \$18000 per Siren

Benefits (Losses Avoided)	Provide sufficient warning time for sheltering and protection, reducing loss of life
Completion Date	Ongoing
Joplin-9	Reverse 911
Issue/Background	Do not have a good way to warn/advise those not served by Sirens
Plan for Implementation and Administration	Promote use of R911 in small communities and rural areas
Lead Agency	Joplin City Communications
Partners	Joplin EM / LEPC
Funding Description	State and Federal Agencies and LEPC Funding
Total Cost	\$1500/year
Benefits (Losses Avoided)	Improve/increase awareness of dangers, reduce loss of life and property
Completion Date	Ongoing
La Russell-1	Apply for funding for tornado siren
Issue/Background	The Village has no warning system for severe storms
Plan for Implementation and Administration	Apply for funding for tornado siren
Lead Agency	Village Mayor and clerk
Partners	Avilla Fire Department
Funding Description	State and Federal Agencies
Total Cost	\$10,000
Benefits (Losses Avoided)	Will give citizens advance warning of storms
Completion Date	December, 2010
La Russell-2	Arrange for Tornado Shelter for residents
Issue/Background	There is no Community Saferoom for tornado sheltering
Plan for Implementation and Administration	Work out an agreement with the Local Church for sheltering during storms
Lead Agency	Village Clerk
Partners	Local Church
Funding Description	none
Total Cost	none
Benefits (Losses Avoided)	Minimizes the number of injuries and deaths
Completion Date	December, 2010
La Russell-3	Develop Emergency Management Plan
Issue/Background	The Village has no formal Emergency Plan

Plan for Implementation and Administration	Create Plan for adoption and implementation
Lead Agency	Village Board
Partners	none
Funding Description	Local Agency
Total Cost	Unknown
Benefits (Losses Avoided)	Formal structure during emergencies. Improve Timeliness and coordination during Incident Management
Completion Date	December, 2011
Neck City-1	Adopt FEMA Floodplain Program by ordinance
Issue/Background	City needs to adopt FEMA Floodplain Program to protect residents and landowners in existing identified floodplain.
Plan for Implementation and Administration	Obtain, complete, submit NFIP application.
Lead Agency	Mayor with board
Partners	FEMA
Funding Description	City General
Total Cost	\$100
Benefits (Losses Avoided)	Reduce impact of future floods. Allow residents to obtain flood insurance
Completion Date	December, 2011
Neck City-2	Apply for funding to assist with building tornado shelter
Issue/Background	City has no existing tornado shelter. Facility needed for protection during tornado events.
Plan for Implementation and Administration	Designate site for facility. Submit funding application.
Lead Agency	City Mayor and board
Partners	FEMA
Funding Description	State and Federal Agencies
Total Cost	\$300,000.00
Benefits (Losses Avoided)	Reduce potential loss of life due to high winds/tornadoes
Completion Date	December, 2012
Neck City-3	Promote Reverse 911 and NOAA radios
Issue/Background	Need some way of receiving weather and current hazard information
Plan for Implementation and Administration	Educate the Public regarding weather radios and weather radios in a newsletter
Lead Agency	Board Member
Partners	Jasper County
Funding Description	Local Agency

Total Cost	Cost of postage and printing = \$150
Benefits (Losses Avoided)	Minimize loss of life. Preparing for future weather related incidents can provide more time to take cover.
Completion Date	Ongoing
Neck City-4	Quarterly Newsletter
Issue/Background	City needs better communications with residents and can provide hazard mitigation information
Plan for Implementation and Administration	Develop and produce a quarterly newsletter with current information and hazard mitigation ideas
Lead Agency	Board Member
Partners	none
Funding Description	local funding
Total Cost	cost of postage and printing = \$150
Benefits (Losses Avoided)	Improve safety for residents by having information at hand
Completion Date	January, 2011
Neck City-5	Develop Public Works Department
Issue/Background	City has to contract out for public works, needs someone available all hours for emergencies
Plan for Implementation and Administration	Develop working plan for employment and equipment
Lead Agency	City
Partners	none
Funding Description	Local Agency
Total Cost	unknown
Benefits (Losses Avoided)	Have someone who takes care of streets etc who can take care of emergencies has they happen
Completion Date	June, 2011
Neck City-6	Portable generators
Issue/Background	The City has no mobile power source to operate equipment and/or pumps to assist during an emergency event or post disaster cleanup
Plan for Implementation and Administration	Apply for funding for a mobile or truck mounted generators
Lead Agency	Member of Board
Partners	No agency identified as yet
Funding Description	State and Federal Agencies
Total Cost	\$30,000
Benefits (Losses Avoided)	Would allow for city workers to assist during and after emergencies with power sources for such things as work lights, power tools, and water pumps
Completion Date	December, 2011

Oronogo - 1	NFIP -Enforce Floodplain Ordinance
Issue/Background	The City has adopted the new floodplain ordinance to prevent future flooding
Plan for Implementation and Administration	Restrict/Eliminate development in the existing floodplain and acquire land if necessary
Lead Agency	Public works Supr
Partners	FEMA
Funding Description	General Fund
Total Cost	Part of job description
Benefits (Losses Avoided)	Minimize potential for the creation of future flooding problems, improve water quality, and improve the environment
Completion Date	Ongoing
Oronogo -2	Active Building Code Enforcement
Issue/Background	Building and Development in Floodplain areas
Plan for Implementation and Administration	Restrict/Eliminate development in the existing floodplain and acquire land if necessary
Lead Agency	Building Inspector
Partners	none
Funding Description	General Fund
Total Cost	\$10,000
Benefits (Losses Avoided)	Minimize potential for the creation of future flooding problems, sediment and erosion problems, and improve the environment
Completion Date	Ongoing
Oronogo - 3	Active Code Enforcement
Issue/Background	Code Violations regarding burning, building, stormwater, sediment and erosion, and other Codes
Plan for Implementation and Administration	Enforce Compliance of all City Codes
Lead Agency	City of Oronogo Police Chief
Partners	none
Funding Description	General Fund
Total Cost	No additional cost - Part of job description
Benefits (Losses Avoided)	Minimize potential for stormwater issues and environmental issues
Completion Date	Ongoing
Oronogo - 4	NIMS Training
Issue/Background	To receive Federal Funding, all public officials of Oronogo need to be certified with NIMS
Plan for Implementation and Administration	All new Board Members will take the online course to receive the NIMS Certificate.
Lead Agency	Police Chief

Partners	FEMA
Funding Description	none
Total Cost	none
Benefits (Losses Avoided)	Minimize the use of Public Funds on natural disaster incidents
Completion Date	Ongoing
Oronogo - 5	Apply for assistance - Portable Electric Generators
Issue/Background	City Hall needs to operate during any disaster situation
Plan for Implementation and Administration	Apply for funding for portable generators or fixed generators for City Hall
Lead Agency	Police Chief
Partners	USDA Rural Development
Funding Description	Local Agency
Total Cost	\$32,275
Benefits (Losses Avoided)	Avoid closure of the important City Offices
Completion Date	Ongoing July 2011
Oronogo - 6	Public Education of Businesses & Residents by Newsletter
Issue/Background	Keeping the Public informed on Emergency Management
Plan for Implementation and Administration	Send out a Quarterly Newsletter with information regarding Emergency Management, Stormwater, etc.
Lead Agency	City of Oronogo Clerk
Partners	FEMA/SEMA
Funding Description	General Fund
Total Cost	\$1200 per year
Benefits (Losses Avoided)	Improve constituent understanding of Mitigation of storm water management and other hazards and issues.
Completion Date	Ongoing
Oronogo - 7	Promote Private Insurance
Issue/Background	Insurance Coverage on privately owned buildings and property
Plan for Implementation and Administration	Place information regarding the NFIP and the need for private insurance in the Quarterly Newsletter
Lead Agency	City of Oronogo Clerk
Partners	none
Funding Description	General Fund
Total Cost	Part of newsletter costs
Benefits (Losses Avoided)	Minimize the trauma a disaster can have on the community by relieving the stress of loss
Completion Date	Ongoing
Oronogo- 8	Apply for Stormwater Drainage Projects Funding

Issue/Background	Control and management of Stormwater runoff
Plan for Implementation and Administration	Area has been determined and funding is needed to implement plan.
Lead Agency	City of Oronogo clerk
Partners	FEMA
Funding Description	Local Agency
Total Cost	\$500,000
Benefits (Losses Avoided)	Minimize flooding issues, erosion, and stormwater runoff
Completion Date	July 2011
Oronogo - 9	Promote NOAA weather radios and reverse 911
Issue/Background	Future weather related disaster preparedness
Plan for Implementation and Administration	Educate the Public regarding weather radios and safe rooms through the Quarterly Newsletter. Currently have a weather radio at City Hall.
Lead Agency	City of Oronogo Clerk
Partners	none
Funding Description	General funds
Total Cost	Part of newsletter
Benefits (Losses Avoided)	Minimize loss of life. Preparing for future weather related incidents can provide more time to take cover.
Completion Date	Ongoing
Oronogo - 10	Encourage residents & businesses to clean up creeks
Issue/Background	Debris and overgrowth in the creek area causes damming and flooding issues
Plan for Implementation and Administration	Educate the Public regarding cleaning up the creek area through the Quarterly Newsletter. Contact the Corps of Engineers regarding clean up of creek.
Lead Agency	City of Oronogo clerk
Partners	none
Funding Description	General Fund
Total Cost	Part of newsletter
Benefits (Losses Avoided)	Minimize debris and overgrowth in the creeks that cause damming and flooding issues
Completion Date	Ongoing
Purcell-1	NIMS training and multi-agency coordination
Issue/Background	The City currently has the minimum training relating to hazards for city wide involvement.
Plan for Implementation and Administration	Promote participation from city council, police department, and fire department to attend NIMS training
Lead Agency	City of Purcell Mayor

Partners	FEMA training
Funding Description	FEMA
Total Cost	none
Benefits (Losses Avoided)	Will allow for stronger resources and better mutual aid in the event of a hazardous event
Completion Date	Ongoing
Purcell-2	Hazard education
Issue/Background	The City of Purcell and residents need further information about hazards and mitigation strategies
Plan for Implementation and Administration	The City will begin sending out flyers with utilities about weather hazards and have a yearly Safety Forum with pamphlets on Safety and Preparedness
Lead Agency	City of Purcell Clerk
Partners	none
Funding Description	General Budget
Total Cost	Minimal as it will go out with utilities
Benefits (Losses Avoided)	Keeps residents posted to new ideas and suggestions regarding safety and planning during emergency situations.
Completion Date	Ongoing
Purcell-3	Promote reverse 911
Issue/Background	Residents need way of hearing important hazard information
Plan for Implementation and Administration	Educate the Public regarding Reverse 911 and encourage cell phone sign up
Lead Agency	City of Purcell Clerk
Partners	Jasper County
Funding Description	Local Agency
Total Cost	Unknown
Benefits (Losses Avoided)	Minimize loss of life. Preparing for future weather related incidents can provide more time to take cover.
Completion Date	Ongoing
Purcell-4	Grant funding application for water tower power source
Issue/Background	The City of Purcell is currently without any back up power to operate our water well if power was lost
Plan for Implementation and Administration	Apply for funding for a stationary generator to power water pumps at the city's well
Lead Agency	City of Purcell Board
Partners	none
Funding Description	State and Federal Agencies
Total Cost	\$30,000
Benefits (Losses Avoided)	Allow clean water for drinking, bathing, cooking, and fire control when electric is not available.

Completion Date	December 2014
Purcell-5	Storm siren expansion
Issue/Background	The City of Purcell currently has one tornado sirens, located to the southeast of Purcell. Current residents in to the Northwest do not hear the siren when the are activated. Another siren is needed
Plan for Implementation and Administration	Apply for funding for tornado siren
Lead Agency	City of Purcell board
Partners	none
Funding Description	State and Federal Agencies
Total Cost	\$10,000
Benefits (Losses Avoided)	Will expand the range of our current siren system and give advanced warning to more residents
Completion Date	December 2012
Sarcoxie-1	Reverse 911 awareness and access
Issue/Background	Increase awareness and encourage cell phone participation of city residents and business owners to maximize ability to get emergency information as needed.
Plan for Implementation and Administration	Continue to promote on city website, newspaper and community events
Lead Agency	City of Sarcoxie Clerk
Partners	JASCO 911
Funding Description	City
Total Cost	\$500 annually
Benefits (Losses Avoided)	Avoidable death, injury, and property as a result of not having access to real time emergency information
Completion Date	yearly
Sarcoxie-2	Emergency Shelter / Fire Station
Issue/Background	The City has no official emergency storm shelters in the event of tornados. In addition, the city's lone fire station is obsolete and too small for the existing dept.
Plan for Implementation and Administration	Seek Federal Funding to build a Fire Station / Emergency Shelter.
Lead Agency	City of Sarcoxie Mayor
Partners	None
Funding Description	Federal Agencies
Total Cost	\$300,000 estimated
Benefits (Losses Avoided)	Injury and loss of life during tornadic events that could be prevented by having access to storm shelter.
Completion Date	December 2014

Sarcoxie-3	Emergency Power Supply Water Towers
Issue/Background	The City has no readily available generators to operate the wells in the event of a disaster that results in power loss. A reliable water supply mitigates any disaster for the residents of the city.
Plan for Implementation and Administration	To apply for USDA funding to assist with the purchase of generators
Lead Agency	Public Works
Partners	USDA
Funding Description	City & USDA
Total Cost	\$10,000
Benefits (Losses Avoided)	Maintain fresh water supply to residents and businesses and ensure water supply for fire dept during power losses.
Completion Date	2012
Sarcoxie-4	Emergency Power Supply Sewer System
Issue/Background	The City has no readily available generators to operate the lift stations and waste treatment system in the event of a disaster that results in power loss.
Plan for Implementation and Administration	To apply for USDA Funding to assist with the purchase of generators
Lead Agency	Public Works
Partners	USDA
Funding Description	City & USDA
Total Cost	\$20,000
Benefits (Losses Avoided)	Ensure operation of sewer distribution system and treatment system during power losses to preserve health and safety and avoid environmental impact due to untreated sewer discharges.
Completion Date	2012
Sarcoxie-5	Emergency Power Supply City Hall / PD
Issue/Background	City Hall is the primary EOC during an emergency event in the city. Without a backup power supply to operate phone system, computers, etc., this mission of the EOC is greatly hampered.
Plan for Implementation and Administration	To apply for grant funding to assist with the purchase of a generator.
Lead Agency	City of Sarcoxie Clerk and Mayort
Partners	Participating Grant Bodies
Funding Description	City & Participating Grant Bodies
Total Cost	\$5,000
Benefits (Losses Avoided)	Ensure operation of City Government and Police Department during periods of power loss. Also to ensure operation of EOC.
Completion Date	2012
Sarcoxie-6	NIMS Training Continuation

Issue/Background	The City needs to be fully compliant with NIMS requirements to be fully prepared to address emergency situations in the city.
Plan for Implementation and Administration	Emergency Manager will over see training for the City Council and other personal
Lead Agency	City Emergency Manager
Partners	FEMA & or SEMA
Funding Description	City Funds
Total Cost	\$2,000
Benefits (Losses Avoided)	To be prepared for emergency situations
Completion Date	Ongoing
Sarcoxie-7	Emergency Operation Plan Update & Implementation
Issue/Background	The City is reviewing its emergency operation plans and ensure full compliance, implementation, and preparation.
Plan for Implementation and Administration	To obtain a sample EOP and revise and make it useful to our City.
Lead Agency	City Emergency Manager
Partners	City & Jasper County Emergency Management
Funding Description	City and any available grant bodies
Total Cost	\$10,000
Benefits (Losses Avoided)	To minimize loss of life and property damage in the event of a disaster, and to ensure a speedy recovery.
Completion Date	December 2012
Sarcoxie-8	Stormwater Program Implementation
Issue/Background	Institute a stormwater program per federal and state law.
Plan for Implementation and Administration	The City anticipates being required to implement this program with the results of the 2010 Census.
Lead Agency	Board
Partners	DNR
Funding Description	City General budget
Total Cost	\$2,000 per year beginning in 2011
Benefits (Losses Avoided)	To minimize pollution of ground water and to ensure optimal movement of stormwater through the city and residential areas.
Completion Date	2012
Sarcoxie-9	Emergency Shelter At Local Mobile Home Park
Issue/Background	Autumn Acres, a mobil home park adjoining the city limits, is an 80 plus unit park with no emergency shelters in the event of a tornado.
Plan for Implementation and Administration	Identify a grant body to assist the park owner to develop an appropriate amount of emergency storm shelter protection.
Lead Agency	City of Sarcoxie Mayor
Partners	City, Park Owner, and any available grant body

Funding Description	Property owner and any available grants
Total Cost	\$40,000
Benefits (Losses Avoided)	Prevent or reduce likelihood of avoidable loss of life during severe storms or a tornadic event.
Completion Date	2013
Sarcoxie-10	Emergency Power Supply Nursing Home
Issue/Background	The Sarcoxie Nursing Home is well suited to serve as a special needs shelter in the event of a disaster but lacks immediate access to emergency power supply.
Plan for Implementation and Administration	To apply for grant funding to assist with the purchase of a generator.
Lead Agency	City of Sarcoxie Mayor and Home Administrator
Partners	City, Nursing Home Corporate Owner, and USDA
Funding Description	City, Property owner and any available grants
Total Cost	\$5,000
Benefits (Losses Avoided)	Ensure the most vulnerable population of our city are protected during a local disaster.
Completion Date	2012
Sarcoxie-11	Enforcement of Floodplain Ordinance
Issue/Background	Enforce Floodplain ordinances to maintain qualification for NFIP, and to minimize property damage and loss of life in the event of a flood.
Plan for Implementation and Administration	Maintain existing program of enforcement.
Lead Agency	Police Department
Partners	City, Park Owner, and any available grant body
Funding Description	City, Property owner and any available grants
Total Cost	\$2,000 per year.
Benefits (Losses Avoided)	Ensure the most vulnerable population of our city are protected during a local disaster.
Completion Date	Ongoing
Webb City-1	Action
Issue/Background	NFIP - Continue Compliance
Plan for Implementation and Administration	Restrict/Eliminate development in the existing floodplain and acquire land in necessary
Lead Agency	City of Webb City - Public Works
Partners	Harry S. Truman Coordinating Council
Funding Description	State and Federal Agencies
Total Cost	unknown
Benefits (Losses Avoided)	Minimize potential for the creation of future flooding problems, improve water quality, and improve the environment
Completion Date	ongoing

Webb City-2	Action
Issue/Background	Apply for Funding assistance for a Saferoom(s)
Plan for Implementation and Administration	Assist the school district as well as private residential care facilities in the application for funding
Lead Agency	City of Webb City
Partners	Harry S. Truman Coordinating Council; Webb City R-VII School District; local residential centers
Funding Description	State and Federal Agencies
Total Cost	unknown
Benefits (Losses Avoided)	Help to prevent personal injury or death
Completion Date	ongoing
Webb City-3	Action
Issue/Background	Apply for Funding assistance for Portable Electric Generator(s)
Plan for Implementation and Administration	Apply for Funding assistance for Portable Electric Generator(s) to run sewer lift stations in the event of prolonged power outages
Lead Agency	City of Webb City - Public Works
Partners	Harry S. Truman Coordinating Council; Center Creek 201 Board
Funding Description	State and Federal Agencies
Total Cost	unknown
Benefits (Losses Avoided)	Personal health & safety; damages caused by sewer backing up
Completion Date	ongoing
Webb City-4	Action
Issue/Background	Apply for Funding assistance for Storm Siren Expansion
Plan for Implementation and Administration	Apply for Funding assistance for Storm Siren Expansion to recently constructed residential subdivisions
Lead Agency	City of Webb City - Public Works
Partners	Harry S. Truman Coordinating Council
Funding Description	State and Federal Agencies
Total Cost	unknown
Benefits (Losses Avoided)	Help to prevent personal injury or death
Completion Date	ongoing
Webb City-5	Action
Issue/Background	Stormwater Study
Plan for Implementation and Administration	Assist in identifying corrective measures to prevent sewer back up and manage stormwater runoff
Lead Agency	City of Webb City - Public Works
Partners	Harry S. Truman Coordinating Council; Center Creek 201 Board
Funding Description	State and Federal Agencies

Total Cost	unknown
Benefits (Losses Avoided)	Personal health & safety; damages caused by sewer backing up and flash flooding
Completion Date	ongoing
Webb City-6	Action
Issue/Background	Public Education of Businesses, homeowners, and residents
Plan for Implementation and Administration	Use websites and newspaper articles to help educate businesses, homeowners, & residents on steps they can take to mitigate hazards
Lead Agency	City of Webb City - Emergency Management
Partners	Harry S. Truman Coordinating Council
Funding Description	State and Federal Agencies
Total Cost	unknown
Benefits (Losses Avoided)	Personal health & safety
Completion Date	ongoing
Webb City-7	Action
Issue/Background	Apply for Funding assistance for flood control projects and stormwater upgrades
Plan for Implementation and Administration	Assist in identifying corrective measures to manage stormwater runoff
Lead Agency	City of Webb City - Public Works
Partners	Harry S. Truman Coordinating Council
Funding Description	State and Federal Agencies
Total Cost	unknown
Benefits (Losses Avoided)	Personal health & safety; damages caused by flash flooding
Completion Date	ongoing
Webb City-8	Action
Issue/Background	Apply for Funding assistance for Emergency Power Backup for City Hall & Public Works
Plan for Implementation and Administration	Apply for Funding assistance for Electric Generator(s) to power City Hall and Public Works buildings in the event of prolonged power outages
Lead Agency	City of Webb City - Public Works
Partners	Harry S. Truman Coordinating Council
Funding Description	State and Federal Agencies
Total Cost	unknown
Benefits (Losses Avoided)	Help to provide continuity of services during prolonged power outages
Completion Date	ongoing
Webb City-9	Action

Issue/Background	Apply for Funding assistance for Saferoom for mobile home park(s)
Plan for Implementation and Administration	Assist local mobile home parks in the application for funding
Lead Agency	City of Webb City - Emergency Management
Partners	Harry S. Truman Coordinating Council
Funding Description	State and Federal Agencies
Total Cost	unknown
Benefits (Losses Avoided)	Help to prevent personal injury or death
Completion Date	ongoing
Webb City-10	Action
Issue/Background	Active Code enforcement
Plan for Implementation and Administration	Continue active building and code enforcement to help prevent personal injury, property damages & loss
Lead Agency	City of Webb City - Public Works
Partners	Harry S. Truman Coordinating Council
Funding Description	State and Federal Agencies
Total Cost	unknown
Benefits (Losses Avoided)	Help to prevent personal injury or death and property damage/loss
Completion Date	ongoing
Waco-1	Apply for funding to build a saferoom
Issue/Background	There are no tornado shelters within the Village
Plan for Implementation and Administration	Find costs and apply for a saferoom
Lead Agency	Village Mayor and Clerk
Partners	FEMA/SEMA
Funding Description	Federal
Total Cost	\$300,000
Benefits (Losses Avoided)	Prevent loss of life in wind and tornado storms (est. residents 90)
Completion Date	December, 2014
Waco-2	Promote Reverse 911 and NOAA radios
Issue/Background	People don't always pay attention to weather and other events do happen quickly
Plan for Implementation and Administration	Educate the Public regarding reverse 911 and NOAA radios with posters
Lead Agency	Village
Partners	none
Funding Description	General Fund
Total Cost	minimal
Benefits (Losses Avoided)	Minimize loss of life by giving more time to take cover.

Completion Date	Ongoing
Waco - 3	Provide informational flyers on weather hazards at yearly cleanup
Issue/Background	Help prepare residents for upcoming weather issues
Plan for Implementation and Administration	Village will print out hazard information flyers to distribute at yearly citywide cleanup
Lead Agency	Village Clerk
Partners	none
Funding Description	General Fund
Total Cost	unknown- minimal
Benefits (Losses Avoided)	Helps prepare citizens for future weather issues
Completion Date	Ongoing
Avilla School District-1	Safe-room for each location
Issue/Background	It is not uncommon for severe weather to strike while children are in school facilities.
Plan for Implementation and Administration	Identify storm safe-rooms or safe-areas within the school facility to use during severe weather. Additional safe-rooms need to be built to allow a more secure area.
Lead Agency	Avilla School District District Superintendent
Partners	Missouri Center for Safe Schools at UMKC/ FEMA
Funding Description	Grant and school funding
Total Cost	None
Benefits (Losses Avoided)	To minimize injuries/deaths in the event of a facility damaging storm. 250 persons protected
Completion Date	December 2015
Avilla School District-2	Educate students and parents of hazards with informational flyers
Issue/Background	Students and parents need to know of the possible hazards found in the school setting and how they are expected to respond.
Plan for Implementation and Administration	Use student handbook and school website to explain various school hazards as well as how the school (and students) will respond to them.
Lead Agency	Avilla School District Superintendent
Partners	None
Funding Description	Avilla School District
Total Cost	Part of handbook cost
Benefits (Losses Avoided)	Students and parents will be educated on the various hazards that are possible in the school environment and will know what type of response to expect.
Completion Date	Ongoing

Avilla School District-3	Increase awareness of students and teachers with campus drills and training
Issue/Background	The school will perform quarterly fire drills, bi-annual tornado drills, annual bus evacuation and earth quake drills.
Plan for Implementation and Administration	Safety Coordinator trains staff on drill procedures and staff train students. Emergency procedures are also posted in each classroom.
Lead Agency	Avilla School District Superintendent
Partners	None
Funding Description	Avilla School District
Total Cost	Unknown
Benefits (Losses Avoided)	To minimize injuries/deaths in the event of a crisis situation.
Completion Date	Ongoing
Avilla School District-4	Educate staff and students on Shelter-in-Place procedures
Issue/Background	Hazardous materials are common place on the roadway, rails, businesses and even homes surrounding school facilities.
Plan for Implementation and Administration	Safety Coordinator trains staff on Shelter-in-Place procedures
Lead Agency	Avilla School District
Partners	Local Fire Department (Hazmat Unit)
Funding Description	Avilla School District
Total Cost	none
Benefits (Losses Avoided)	Minimize injuries/deaths during an event
Completion Date	Ongoing
Avilla School District-5	Educate staff and students on Building Evacuation procedures
Issue/Background	Evacuations can be chaotic. Procedures must be in place to ensure that evacuations are organized and to ensure that everyone is accounted for.
Plan for Implementation and Administration	Train staff and students on Evacuation procedures and the method to communicate missing or injured individuals, and conduct regular drills.
Lead Agency	Avilla School District Superintendent
Partners	None
Funding Description	Avilla School District
Total Cost	none
Benefits (Losses Avoided)	Minimize injuries/deaths and quickly determine if everyone is accounted for during an event requiring an evacuation.
Completion Date	Ongoing

Avilla School District-6	Educate staff and students on Lock-down procedures
Issue/Background	Manmade events threaten the well being of staff and students both outside the building and inside the building.
Plan for Implementation and Administration	Train staff and students on Lock-down procedures and conduct regular drills.
Lead Agency	Avilla School District Superintendent
Partners	None
Funding Description	Avilla School District
Total Cost	none
Benefits (Losses Avoided)	Minimize injuries/deaths by locking out the potential threat.
Completion Date	Ongoing
Avilla School District-7	Educate staff on Bomb Threat Assessment and Response
Issue/Background	The majority of bomb threats are false and only made to disrupt the learning process and yet there are some threats which warn of real situations.
Plan for Implementation and Administration	Train staff on bomb threat assessment and procedures.
Lead Agency	Avilla School District Superintendent
Partners	Federal Agencies
Funding Description	Avilla School District
Total Cost	none
Benefits (Losses Avoided)	Learn to identify events that are likely to be real or false, and minimize injuries/deaths during real or potentially real events and continue learning process during false events.
Completion Date	Ongoing
Avilla School District-8	An Emergency Response Team made up of school staff members for each location
Issue/Background	In the event of an area wide emergency during a school day, local emergency responders may be overwhelmed and not able to respond to schools for hours, or perhaps even days, so schools have to be prepared to meet their own emergency needs.
Plan for Implementation and Administration	Develop and train emergency response teams in each school
Lead Agency	Avilla School District Superintendent
Partners	Missouri Center for Safe Schools at UMKC
Funding Description	Avilla School District and Federal
Total Cost	\$3,000 per year
Benefits (Losses Avoided)	Will have a team that can handle emergency situations until local emergency responders can arrive. Staff will be trained in Search

	and Rescue, Security, First Aid, Psychological First Aid and Family Reunification.
Completion Date	Ongoing
CJ School – 1	Conduct Campus Safety Drills
Issue/Background	In 2003, a tornado hit the the main campus of the CJ School Distrct. Fortunately it hit on a Sunday. Students and staff need to be aware of safety procedures for all emergency situations.
Plan for Implementation and Administration	Conduct routine drills during regular school hours. Provide direction and education in what to do in the event of an emergency.
Lead Agency	Carl Junction R-1 School Administration/Emergency Management Responders
Partners	Educators, Fire Department, Police Department, Emergency Responders
Funding Description	Various Printed Material
Total Cost	N/A - Minimal for printing
Benefits (Losses Avoided)	Prevent serious injury or loss of life
Completion Date	ongoing
CJ School - 2	Conduct Lock down drills
Issue/Background	To insure students are safe In the event of an intruder, bomb threat or "armed threat"
Plan for Implementation and Administration	Conduct routine lock down drills in all buildings. Educate students on the need for these drills and to report unusual circumstances or strangers to school staff.
Lead Agency	Carl Junction R-1 Administration
Partners	Police, Fire and Sheriff Departments, Emergency Responders
Funding Description	Secure door locks, lock down supplies, vent coverings, tape
Total Cost	unknown
Benefits (Losses Avoided)	Prevent serious injury and loss of life
Completion Date	ongoing
CJ School - 3	Create list of staff with medical training.
Issue/Background	To allow immediate medical assistance for injuries
Plan for Implementation and Administration	Maintain an up-to-date list of staff members trained in first aid and CPR. Offer certification training on campus to interest individuals. Designate manned locations for trained individuals in the event of an emergency.
Lead Agency	Carl Junction R-1 School District Administration
Partners	American Red Cross, area hospitals
Funding Description	Instructors and materials
Total Cost	Unknown
Benefits (Losses Avoided)	Prevent and contain serious injuries

Completion Date	ongoing
CJ School - 4	Monitor and Educate Disease Outbreaks
Issue/Background	To insure a healthy workplace for students and staff
Plan for Implementation and Administration	Educate students on proper hygiene, continue to educate and monitor school staff on correct cleaning procedures and universal precautions.
Lead Agency	Carl Junction R-1 School District Nursing Staff
Partners	Jasper County Health Department, American Red Cross
Funding Description	Printed materials, training videos, instructors
Total Cost	unknown
Benefits (Losses Avoided)	To lower absenteeism, maintain a more health work and school environment.
Completion Date	ongoing
Carthage School 1	Educate students and staff members regarding the buddy system
Issue/Background	Staff trained in various emergency situations cannot leave students alone during emergency situations
Plan for Implementation and Administration	Identify buddy room teachers who will work together during emergencies. After roll taken, one teacher will leave for additional support while the other teacher takes responsibility for both classes
Lead Agency	Carthage R-9 School District –Individual Building Administration
Partners	Missouri Center for Safe Schools
Funding Description	No funding required
Total Cost	None
Benefits (Losses Avoided)	Additional support can be provided without jeopardizing safety of the students
Completion Date	On going
Carthage School 2	Educate students and staff members regarding tornado safety procedures
Issue/Background	Students need to be prepared for a tornado as Southwest Missouri has an increased chance for tornadic activity.
Plan for Implementation and Administration	Practice tornado safety procedures during various times of the day, including during lunch and without the use of electricity.
Lead Agency	Carthage R-9 School District -individual Building Administration
Partners	City of Carthage Emergency Management Coordinator
Funding Description	No funds required
Total Cost	None
Benefits (Losses Avoided)	To minimize injuries/deaths in an event of a tornado/strong storms
Completion Date	Ongoing

Carthage School 3	Educate students and staff members regarding intruder lock-down safety procedures
Issue/Background	Due to extreme society issues, students and staff members need to be prepared for unwanted intruders.
Plan for Implementation and Administration	Students and staff members will be trained related to proper procedures to follow during when an unwanted intruder is in the building. This plan will be practiced during the school year.
Lead Agency	Carthage R-9 School District –Individual Building Administration
Partners	Missouri Center for Safe Schools
Funding Description	No funding required
Total Cost	None
Benefits (Losses Avoided)	To minimize injuries/deaths in such an event
Completion Date	Ongoing
Carthage School 4	Educate students and staff members regarding family reunification procedures
Issue/Background	During emergency situations, parents/friends become very rude, anxious, and aggressive to find out more information regarding the students safety.
Plan for Implementation and Administration	Staff will be trained related to double gated system to safely and orderly unite students with parents.
Lead Agency	Carthage R-9 School District –Individual Building Administration
Partners	Missouri Center for Safe Schools
Funding Description	Funding for reunification documentation minimal
Total Cost	Minimal
Benefits (Losses Avoided)	Lessen the confusion to reunite students with parents during an emergency situation
Completion Date	Ongoing
Carthage School 5	Actively participate in REMS training
Issue/Background	Students and staff members need to be prepared for all aspects of emergency procedures including efforts to avoid and be prepared for emergency situations.
Plan for Implementation and Administration	Staff members will participate in REMS training provided by Federal grant
Lead Agency	Carthage R-9 School District Asst Superintendent
Partners	Missouri Center for Safe Schools - Carthage Police Department - Carthage Fire Department - City of Carthage Emergency Management Coordinator
Funding Description	Funding provided by Federal grant
Total Cost	Minimal cost to replenish material used during emergency drills \$500
Benefits (Losses Avoided)	Staff members will be able to appropriate handle emergency situations until local emergency responders can arrive.
Completion Date	Ongoing

Carthage School 6	Improve safety/emergency lighting throughout each building
Issue/Background	Although each building meets code related to emergency lights, buildings are very dark when the use of electricity is disrupted
Plan for Implementation and Administration	The district investigated alternative power sources to aid building staff during situations when electricity is not available
Lead Agency	Carthage R-9 School District Superintendent
Partners	Carthage Fire Department Carthage Police Department
Funding Description	District funds
Total Cost	Approximately \$4,500
Benefits (Losses Avoided)	Many school buildings had limited light source during the internal rooms without windows. High powered safety lights were purchased and located throughout each building for easy access and availability.
Completion Date	Lights were purchased in January 2010
Carthage School 7	Construct safe rooms/shelter at each school
Issue/Background	Many tornados hit Southwest Missouri every year causing devastation. Schools need to have a safe room/shelter for students and staff members to remain as safe as possible.
Plan for Implementation and Administration	The district will apply for a FEMA grant to construct safe rooms/shelters for each building.
Lead Agency	Carthage R-9 School District Asst superintendent
Partners	FEMA Harry S. Truman Coordinating Council
Funding Description	District funds and FEMA grant
Total Cost	\$2,000,000 for one building
Benefits (Losses Avoided)	To minimize injuries/deaths in such an event
Completion Date	The district will apply for a FEMA grant to construct safe rooms/shelters for one building within five years
Action ID Jasper School District 1	Action
Issue/Background	Jasper does not have a saferoom large enough to house our population of students.
Plan for Implementation and Administration	We have applied for Federal funding to provide our school and community a saferoom.
Lead Agency	Jasper R-V School District Superintendent
Partners	Jasper R-V School District and FEMA
Funding Description	Federal
Total Cost	\$1,400,000
Benefits (Losses Avoided)	Prevent loss of life and injuries
Completion Date	December, 2014
Action ID Jasper School District 2	Action
Issue/Background	Educating parents and students will reduce loss during an

	emergency.
Plan for Implementation and Administration	We will distribute "Safe in 3" materials and other materials to help educate the public.
Lead Agency	Jasper R-V School District Building principals
Partners	none
Funding Description	Local
Total Cost	\$300
Benefits (Losses Avoided)	Prevent loss of life and injury and help with home preparedness
Completion Date	Each Year
Action ID Jasper School District 3	Action
Issue/Background	Generators are needed to keep our basements from flooding, keep our food fresh and give the central office electricity for general operations.
Plan for Implementation and Administration	We will procure two generators to accomplish this task.
Lead Agency	Jasper R-V School District Maintenance Supr
Partners	
Funding Description	Local
Total Cost	\$1,250
Benefits (Losses Avoided)	Keep our tornado shelter free of flood waters, keep our food fresh and enable the central office to manage emergency situations.
Completion Date	12/7/2010
Action ID Jasper School District 4	Action
Issue/Background	Training students and staff is vitally important to reduce bodily injury during an emergency.
Plan for Implementation and Administration	We will train our staff and students through drills and training.
Lead Agency	Jasper R-V School District High School Principal
Partners	
Funding Description	Local
Total Cost	\$700
Benefits (Losses Avoided)	Provide mitigation plans for various emergencies and then train staff and students to reduce loss.
Completion Date	On going
Joplin School District-1	Safe-room for each location
Issue/Background	It is not uncommon for severe weather to strike while children are in school facilities.
Plan for Implementation and Administration	Identify storm safe-rooms or safe-areas within the school facility to use during severe weather.
Lead Agency	Joplin School District _individual Building Principals

Partners	Missouri Center for Safe Schools at UMKC
Funding Description	No funds required
Total Cost	None
Benefits (Losses Avoided)	To minimize injuries/deaths in the event of a facility damaging storm.
Completion Date	Ongoing
Joplin School District-2	Educate students and parents of hazards with informational flyers
Issue/Background	Students and parents need to know of the possible hazards found in the school setting and how they are expected to respond.
Plan for Implementation and Administration	Use student handbook and school website to explain various school hazards as well as how the school (and students) will respond to them.
Lead Agency	Joplin School District _individual Building Principals
Partners	None
Funding Description	Joplin School District funds
Total Cost	As a part of handbook there is no additional cost
Benefits (Losses Avoided)	Students and parents will be educated on the various hazards that are possible in the school environment and will know what type of response to expect.
Completion Date	Ongoing
Joplin School District-3	Increase awareness of students and teachers with campus drills and training
Issue/Background	Joplin City fire code requires monthly fire drills. Other drills for lock-downs, tornados and reverse evacuations are required by the school district.
Plan for Implementation and Administration	Safety Coordinator trains staff on drill procedures and staff train students. Emergency procedures are also posted in each classroom.
Lead Agency	Joplin School District _individual Building Principals
Partners	None
Funding Description	Joplin School District funding
Total Cost	No additional costs
Benefits (Losses Avoided)	To minimize injuries/deaths in the event of a crisis situation.
Completion Date	Ongoing
Joplin School District-4	Educate staff and students on Shelter-in-Place procedures
Issue/Background	Hazardous materials are common place on the roadway, rails, businesses and even homes surrounding school facilities.
Plan for Implementation and Administration	Safety Coordinator trains staff on Shelter-in-Place procedures
Lead Agency	Joplin School District _individual Building Principals
Partners	Local Fire Department (Hazmat Unit)

Funding Description	Joplin School District funding
Total Cost	No additional costs
Benefits (Losses Avoided)	Minimize injuries/deaths during an event
Completion Date	Ongoing
Joplin School District-5	Educate staff and students on Building Evacuation procedures
Issue/Background	Evacuations can be chaotic. Procedures must be in place to ensure that evacuations are organized and to ensure that everyone is accounted for.
Plan for Implementation and Administration	Train staff and students on Evacuation procedures and the method to communicate missing or injured individuals, and conduct regular drills.
Lead Agency	Joplin School District _individual Building Principals
Partners	N--one
Funding Description	Joplin School District funding
Total Cost	No additional costs
Benefits (Losses Avoided)	Minimize injuries/deaths and quickly determine if everyone is accounted for during an event requiring an evacuation.
Completion Date	Ongoing
Joplin School District-6	Educate staff and students on Lock-down procedures
Issue/Background	Manmade events threaten the well being of staff and students both outside the building and inside the building.
Plan for Implementation and Administration	Train staff and students on Lock-down procedures and conduct regular drills.
Lead Agency	Joplin School District _individual Building Principals
Partners	None
Funding Description	Joplin School District funding
Total Cost	No additional costs
Benefits (Losses Avoided)	Minimize injuries/deaths by locking out the potential threat.
Completion Date	Ongoing
Joplin School District-7	Educate staff on Bomb Threat Assessment and Response
Issue/Background	The majority of bomb threats are false and only made to disrupt the learning process and yet there are some threats which warn of real situations.
Plan for Implementation and Administration	Train staff on bomb threat assessment and procedures.
Lead Agency	Joplin School District _individual Building Principals
Partners	Federal Agencies
Funding Description	Joplin School District funding
Total Cost	Done as a part of staff training so no additional costs

Benefits (Losses Avoided)	Learn to identify events that are likely to be real or false, and minimize injuries/deaths during real or potentially real events and continue learning process during false events.
Completion Date	Ongoing
Joplin School District-8	An Emergency Response Team made up of school staff members for each location
Issue/Background	In the event of an area wide emergency during a school day, local emergency responders may be overwhelmed and not able to respond to schools for hours, or perhaps even days, so schools have to be prepared to meet their own emergency needs.
Plan for Implementation and Administration	Develop and train emergency response teams in each school
Lead Agency	Joplin School District _individual Building Principals
Partners	Missouri Center for Safe Schools at UMKC/ Red Cross
Funding Description	Joplin Schools and Federal
Total Cost	No additional costs.
Benefits (Losses Avoided)	Will have a team that can handle emergency situations until local emergency responders can arrive. Staff will be trained in Search and Rescue, Security, First Aid, Psychological First Aid and Family Reunification.
Completion Date	Ongoing
Action ID	Action
Sarcoxie School District-1	Inclusion of tornado saferooms in all buildings (determine safe area at each building)
Plan for Implementation and Administration	Saferooms in each location
Lead Agency	Safety Coordinator
Partners	None
Funding Description	N/A
Total Cost	None
Benefits (Losses Avoided)	Decrease injuries and deaths
Completion Date	Ongoing
Sarcoxie School District-2	Educate students and parents on the impacts of major disease outbreaks
Plan for Implementation and Administration	Hand out informational letters/flyers
Lead Agency	School Nurse
Partners	State Health Dept
Funding Description	Health budget
Total Cost	\$500
Benefits (Losses Avoided)	Reduce disease outbreaks

Completion Date	Ongoing
Sarcoxie School District-3	All-Hazards education for preparedness, response & recovery
Plan for Implementation and Administration	Increase awareness of students and teachers with campus drills and training.
Lead Agency	Safety Coordinator and Building Principals
Partners	None
Funding Description	N/A
Total Cost	No additional costs, part of normal training
Benefits (Losses Avoided)	Decrease response time to emergencies and decrease injuries and death
Completion Date	Ongoing
Webb City School District-1	Safe-room for each location
Issue/Background	It is not uncommon for severe weather to strike while children are in school facilities.
Plan for Implementation and Administration	Identify storm safe-rooms or safe-areas within the school facility to use during severe weather.
Lead Agency	Webb City School District Asst Superintendent
Partners	Missouri Center for Safe Schools at UMKC, SEMA & FEMA
Funding Description	\$1,000,000 per school
Total Cost	\$10,000,000
Benefits (Losses Avoided)	To minimize injuries/deaths in the event of a facility damaging storm.
Completion Date	Goal 2016
Webb City School District-2	Educate students and parents of hazards with informational flyers
Issue/Background	Students and parents need to know of the possible hazards found in the school setting and how they are expected to respond.
Plan for Implementation and Administration	Use student handbook and school website to explain various school hazards as well as how the school (and students) will respond to them.
Lead Agency	Webb City School District – Building principals
Partners	None
Funding Description	Webb City School District funds
Total Cost	No additional cost
Benefits (Losses Avoided)	Students and parents will be educated on the various hazards that are possible in the school environment and will know what type of response to expect.
Completion Date	Ongoing
Webb City School District-3	Increase awareness of students and teachers with campus drills and training
Issue/Background	Webb City fire code requires monthly fire drills. Other drills for

	lock-downs, tornados and reverse evacuations are required by the school district.
Plan for Implementation and Administration	Safety Coordinator trains staff on drill procedures and staff train students. Emergency procedures are also posted in each classroom.
Lead Agency	Webb City School District Building superintendent
Partners	None
Funding Description	Webb City School District funding
Total Cost	No additional funding as it is part of other required training
Benefits (Losses Avoided)	To minimize injuries/deaths in the event of a crisis situation.
Completion Date	Ongoing
Webb City School District-4	Educate staff and students on Shelter-in-Place procedures
Issue/Background	Hazardous materials are common place on the roadway, rails, businesses and even homes surrounding school facilities.
Plan for Implementation and Administration	Safety Coordinator trains staff on Shelter-in-Place procedures
Lead Agency	Webb City School District
Partners	Local Fire Department (Hazmat Unit)
Funding Description	Webb City School District funding
Total Cost	No additional funding as it is part of other required training
Benefits (Losses Avoided)	Minimize injuries/deaths during an event
Completion Date	Ongoing
Webb City School District-5	Educate staff and students on Building Evacuation procedures
Issue/Background	Evacuations can be chaotic. Procedures must be in place to ensure that evacuations are organized and to ensure that everyone is accounted for.
Plan for Implementation and Administration	Train staff and students on Evacuation procedures and the method to communicate missing or injured individuals, and conduct regular drills.
Lead Agency	Webb City School District Safety Coordinator/Superintendent
Partners	None
Funding Description	Webb City School District funding
Total Cost	No additional funding as it is part of other required training
Benefits (Losses Avoided)	Minimize injuries/deaths and quickly determine if everyone is accounted for during an event requiring an evacuation.
Completion Date	Ongoing
Webb City School District-6	Educate staff and students on Lock-down procedures
Issue/Background	Manmade events threaten the well being of staff and students both outside the building and inside the building.
Plan for Implementation and	Train staff and students on Lock-down procedures and conduct

Administration	regular drills.
Lead Agency	Webb City School District Safety Coordinator/Superintendent
Partners	None
Funding Description	Webb City School District funding
Total Cost	No additional funding as it is part of other required training
Benefits (Losses Avoided)	Minimize injuries/deaths by locking out the potential threat.
Completion Date	Ongoing
Webb City School District-7	Educate staff on Bomb Threat Assessment and Response
Issue/Background	The majority of bomb threats are false and only made to disrupt the learning process and yet there are some threats which warn of real situations.
Plan for Implementation and Administration	Train staff on bomb threat assessment and procedures.
Lead Agency	Webb City School District Safety Coordinator/Superintendent
Partners	Federal Agencies
Funding Description	Webb City School District funding
Total Cost	No additional funding as it is part of other required training
Benefits (Losses Avoided)	Learn to identify events that are likely to be real or false, and minimize injuries/deaths during real or potentially real events and continue learning process during false events.
Completion Date	Ongoing
Webb City School District-8	An Emergency Response Team made up of school staff members for each location
Issue/Background	In the event of an area wide emergency during a school day, local emergency responders may be overwhelmed and not able to respond to schools for hours, or perhaps even days, so schools have to be prepared to meet their own emergency needs.
Plan for Implementation and Administration	Develop and train emergency response teams in each school
Lead Agency	Webb City School District Superintendent
Partners	Missouri Center for Safe Schools at UMKC
Funding Description	Webb City Schools and Federal
Total Cost	Unknown
Benefits (Losses Avoided)	Will have a team that can handle emergency situations until local emergency responders can arrive. Staff will be trained in Search and Rescue, Security, First Aid, Psychological First Aid and Family Reunification.
Completion Date	Ongoing
Crowder College-1	All-Hazards education for Mitigation, Preparedness, Response & Recovery
Issue/Background	It is important for all students, staff, and community members to

	understand how to be prepared, respond, and recover from a hazard
Plan for Implementation and Administration	Create and update the policy and procedures. Post them to the website and send to all concerned persons
Lead Agency	Crowder College Director of Public Relations
Partners	None
Funding Description	Crowder funds
Total Cost	No additional costs, part of routine website work
Benefits (Losses Avoided)	To help minimize injuries and deaths
Completion Date	Ongoing
Crowder College-2	Additional Outdoor Warning Sirens
Issue/Background	Campus, City, and County need to add more outdoor warning sirens to help warn of hazards
Plan for Implementation and Administration	Work with the county and the city on putting in more off campus warning sirens and add on campus warning sirens
Lead Agency	Crowder College Plant Manager
Partners	City of Neosho and Newton County
Funding Description	City of Neosho, Newton County, Crowder College
Total Cost	\$5,000
Benefits (Losses Avoided)	Will give students and others more notice and possible saving lives and injuries
Completion Date	Mar 2011
Crowder College-3	Saferoom at each location
Issue/Background	Severe weather is a major issue for all of southwest Missouri
Plan for Implementation and Administration	Identify appropriate saferooms at each location and add saferooms to any new structures built.
Lead Agency	Crowder College Dean of Business
Partners	FEMA
Funding Description	Crowder College and possible grants
Total Cost	\$2,500,000
Benefits (Losses Avoided)	Will give students a safe haven from weather and will reduce injuries and deaths in severe weather
Completion Date	Dec 2012
Crowder College-4	Backup generator for dorms, classrooms, and offices
Issue/Background	Several times we have lost electrical power which controls our lighting and in some buildings the heating
Plan for Implementation and Administration	All new buildings will have backup generators. The older buildings are being assessed for possibility of adding generators
Lead Agency	Crowder College Plant Manager
Partners	None

Funding Description	Crowder College and possible grants
Total Cost	\$8000
Benefits (Losses Avoided)	Allows students to not have to be moved to hotels or for students to have to travel in bad weather due to cancelation of classes
Completion Date	July 2011
Crowder College-5	Increase awareness of students and teachers with campus drills and training
Issue/Background	All students and staff need to know the campus procedures for any type of hazard
Plan for Implementation and Administration	Distribute drills and training manuals to all students and staff. Have drills a minimum of once per semester.
Lead Agency	Crowder College Director of Public Relations
Partners	None
Funding Description	None needed
Total Cost	Part of regular training
Benefits (Losses Avoided)	Will prepare the students and staff for dangerous situations and will save injuries and lives
Completion Date	On Going
Crowder College-6	Educate staff and students on Lock-down procedures
Issue/Background	Because of the incidents having all over the country on campuses it is important to have everyone know the Lock-down procedures
Plan for Implementation and Administration	Distribute the Lock-Down procedures to all staff members and have at least on drill per semester.
Lead Agency	Crowder College Director of Public Relations
Partners	None
Funding Description	None needed
Total Cost	Part of regular training
Benefits (Losses Avoided)	Saving lives because of the procedures being followed correctly
Completion Date	On Going
Crowder College-7	Revise and update hazard planning and training on a continual basis
Issue/Background	The nature of hazards, natural or manmade, change on a continuing basis. It is important to constantly update and revise our plans
Plan for Implementation and Administration	Each year review the hazard plans and training. Update with any new procedures.
Lead Agency	Crowder College Dean of Business
Partners	None
Funding Description	None needed

Total Cost	None
Benefits (Losses Avoided)	This will help us save lives and injuries based on improved plans and training
Completion Date	Ongoing
Crowder College-8	Create an emergency response team for each location
Issue/Background	Because of human nature to panic, an emergency response team is needed to make sure all plans and procedures are followed.
Plan for Implementation and Administration	Create a team on each campus to include but not limited to an administrator, faculty member, staff member, and a public information person. Minimum of 7 members.
Lead Agency	Crowder College Dean of Business
Partners	None
Funding Description	Crowder College
Total Cost	none
Benefits (Losses Avoided)	Will help to get people to safe places and help to save injuries and lives
Completion Date	December 2010
MSSU-1	Mass Notification
Issue/Background	Need for notification to campus wide community with regards to all types of disasters or emergencies
Plan for Implementation and Administration	Installation of mass notification speakers inside and outside campus facilities thru updated fire alarm panels.
Lead Agency	MSSU Director of Physical Plant
Partners	Simplex
Funding Description	Capital Expenditure
Total Cost	\$2,000,000 for all buildings
Benefits (Losses Avoided)	To notify the University community of a life threatening emergency and eliminate the possibility of injuries or death
Completion Date	Yearly enhancement-9 phases at one per year
MSSU-2	Update University Emergency Operations Plan
Issue/Background	Update the university Operations Plan to include new facilities, mass notification, policies, procedures
Plan for Implementation and Administration	EOP Committee and Administration – review and revise
Lead Agency	MSSU EOP Committee and Administration
Partners	Joplin/Jasper County Emergency Management
Funding Description	MSSU/ Dept of Education and Homeland Security
Total Cost	\$407,000
Benefits (Losses Avoided)	To guide the University during an emergency or disaster.
Completion Date	December 2011

MSSU-3	Education of University Community
Issue/Background	Continued education with regards to Hazardous Mitigation
Plan for Implementation and Administration	Educate the University community to the policies, procedures, practices, evacuation or shelter-in-place before during and after a disaster thru class's, flyers, e-mails and University Web site.
Lead Agency	MSSU Coordinator of Fire Safety and Environmental Health
Partners	None
Funding Description	MSSU – Fire safety and Environmental Health Dept
Total Cost	New Dept so costs are unknown for flyers. Rest is part of regular training and web site updates
Benefits (Losses Avoided)	To minimize injuries/deaths in the event of a crisis situation.
Completion Date	Ongoing
MSSU-4	Hazardous Mitigation thru Engineering and design with saferooms in every building
Issue/Background	Continued practice of safe rooms and buildings for shelter-in place during disasters.
Plan for Implementation and Administration	University to continue with the practice of new structures and remodels engineered and designed with hazardous mitigation in mind. This includes dovetailing available grants to coincide with new buildings and remodels so that saferooms are included.
Lead Agency	MSSU Engineering firm/ Facilities Director
Partners	FEMA
Funding Description	Capital Expenditures/ Grants
Total Cost	Unknown – none projected at this time
Benefits (Losses Avoided)	Minimize injuries/deaths during a tornado/high wind event
Completion Date	Ongoing- next projected building and grant is after 2015

WORKSHEET #13: JASPER COUNTY SUMMARIZED ACTION STEPS FOR MITIGATION STRATEGY

Hazard Type	Recommended Policy Change or New Initiative	Hazard Areas Affected (list all areas affected by policy changes)	Responsible Departments
Tornado/ Severe Thunderstorms	Promote Weather Radios and Reverse 911	Countywide, all jurisdictions	Jasper County Emergency Management Agencies
Floods	Educate the public on flood safety, and increase floodplain buyout programs	County Floodplain areas which include Carterville, Carthage, Carl Junction, Airport Drive, Joplin, Webb City, Asbury, Brooklyn Heights, Carytown, Duenweg, Fidelity, Jasper, City, Oronogo, Purcell, Sarcoxie	Jasper County Emergency Management (FEMA, SEMA, USGS, Army Corps of Engineers)
Severe Winter Weather	Run a winter weather safety campaign during the winter season	Countywide, all jurisdictions	Jasper County Emergency Management (NWS, NOAA Storm Warning)
Drought	Promote efficient practices for drought resistant farming and minimal water consumption and waste	Countywide, all jurisdictions	University of Missouri Extension Office
Heat Wave	Educate outdoor activity participants during periods of extreme heat	Countywide, all jurisdictions	Jasper County Emergency Management Agency (Jasper County Health Department, medical services, NRCS)
Earthquake	Educate the public on appropriate safety procedures and precautions in the case of an earthquake	Countywide, all jurisdictions	Jasper County Emergency Management
Dam / Levee Failures	Work with the DNR Safety Program to promote maintenance	None near dams, Only Carthage has a Levee	Jasper County Emergency Management (DNR Dam Safety Program) Carthage Emergency Management (U.S. Army Corp of Engineers)
Wildfires	Work with MDC to educate residents in the buffer zone of fire safety.	Countywide, all jurisdictions	local fire departments
Sinkholes	Work with DNR to promote sinkhole education- signs of development etc.	Countywide, all jurisdictions	Local and Newton County Emergency Management Agencies (Missouri Division of Geology and Land Survey, DNR)

SECTION 6

IMPLEMENTATION and MAINTENANCE PROCESS

The Jasper County Hazard Mitigation Stakeholders have determined that the implementation process should be coordinated within a nascent organization called the Harry S Truman Area Hazard Mitigation Committee (which will consist of County Commissioners, County Emergency Management Director, municipal public officials, fire protection, law enforcement, emergency, and public health officials from Jasper County and neighboring counties willing and interested in participating). This Committee will convene to move through this plan so to implement and initiate the Hazard Mitigation Plan's actions. This Committee will encourage and support grants that meet the goals of the plan.

Where possible, plan participants will use existing plans and/or programs to implement hazard mitigation actions. Based on the capability assessments of the participating jurisdictions, communities in Jasper County will continue to plan and implement programs to reduce loss of life and property from hazards. This plan builds upon the momentum developed through previous planning efforts in the County (such as the attempted flood buyout program), and recommends implementing actions, where possible, through the following means:

- Jasper County Operations Plan (informal)
- General or master plans of participating jurisdictions
- Ordinances of participating jurisdictions
- Capital improvement plans and budgets- especially effective for the smaller entities
- Community and rural wildfire protection plans and other wildfire planning efforts through the many fire departments that work with the communities
- Other community plans within the County, such as watershed plans, stormwater management plans, and parks and recreation plans

The governing bodies of the jurisdictions adopting this plan will encourage all other relevant planning mechanisms under their authority to consult this plan to ensure minimization of risk to natural and man-made hazards as well as coordination of activities. **In many jurisdictions, this will be by ordinance and budget. See Section 1 for entities and their plans that it can be incorporated into.**

In order to review and update this plan on a regular basis, The Harry S Truman Area Hazard Mitigation Committee will hold meetings yearly where objectives will be agenda items. The status of each objective will be discussed and see if the actions have been taken to address that objective. At this annual meeting, the Hazard Mitigation Committee members will be responsible for monitoring and evaluating the progress of the plan. This includes annually submitting changes to the plan including goals, objectives, actions (including removing completed actions), and also any changes in the community profile and risk assessment sections. The parties responsible for direct implementation projects will report to the committee on their progress, completion of their respective projects, dilemmas in implementation, and revisions to the strategy they are in charge of.

The Committee will then have a period of time to revise the Hazard Mitigation Plan and submit it to the State Hazard Mitigation Officer for the update review and approval.

The Harry S Truman Coordinating Council will work with the Committee in holding public hearings, annual meetings, and with implementation strategies and priorities. The council will use staff to facilitate these meetings by contacting members with a projected date as close as possible to the anniversary date that will accommodate a majority of members, post an agenda, **advertise and post online**, and notify stakeholders for input. Staff will also take minutes and do revisions as requested by the Committee. **(This will follow the same pattern as developed to do the plan.) All meetings will follow the Sunshine Laws.)**

A mandatory, complete, and comprehensive update of the plan must be completed every 5 years by an appropriate planning agency, to ensure veracity and progress in the planning efforts and initiatives. One year prior to the revision date, HSTCC will apply for a grant with SEMA for funding to do the update.

Notes for next revision – List of deficiencies that should be added at next revision

- Current census information
- Inundation maps that should be completed by DNR
- Wildland-Urban Interface maps with greater detail if available
- Jurisdiction dollar values of buildings if available
- Future building estimates – (economy stalled during this revision- growth was a question)
- Insurance statistics when available (FEMA should mandate that statistics of number of policies issued, claims, types of claims and amounts of claims by county be available for public use)