



# 4 MITIGATION STRATEGY

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**44 CFR Requirement 201.6(c)(3): The plan shall include a mitigation strategy that provides the jurisdiction's blueprint for reducing the potential losses identified in the risk assessment, based on existing authorities, policies, programs and resources, and its ability to expand on and improve these existing tools.**

This section presents the mitigation strategy developed by the Hazard Mitigation Planning Committee (HMPC) based on the risk assessment. The mitigation strategy was developed through a collaborative group process and consists of goals, objectives, and mitigation actions. The HMPC used the following definitions, which are based upon those found in FEMA publication 386-3, *Developing the Mitigation Plan* (2002):

- **Goals** are general guidelines that explain what you want to achieve. Goals are defined before considering how to accomplish them so that they are not dependent on the means of achievement. They are usually long-term, broad, policy-type statements.
- **Objectives** define strategies or implementation steps to attain the identified goals and are specific and measurable.
- **Mitigation Actions** are specific actions that help achieve goals and objectives.

## 4.1 Goals and Objectives

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The HMPC developed goals and objectives to provide direction for reducing hazard-related losses in Kingman County. These were based upon the results of the risk assessment and a review of goals and objectives from other state and local plans, specifically, the State of Kansas Hazard Mitigation Plan, 2007, and the Kingman County Zoning Regulations, Subdivision Regulations, and Floodplain Management Ordinance. This review was to ensure that this plan's mitigation strategy was integrated with existing plans and policies.

Through a brainstorming process at its third meeting, the HMPC identified a variety of possible goals and then came to a consensus on four main ones. Following the development of goals, the HMPC identified specific objectives to achieve each goal. Goals and objectives are listed below, but are not prioritized:

### **Goal 1: Prevent future hazard related losses of life and property**

- Reduce the vulnerability of future development to natural hazards by minimizing growth in hazardous areas
- Protect critical facilities, utilities, and infrastructure

## **Goal 2: Improve the capabilities of Kingman County to mitigate hazards and reduce exposure to natural hazards**

- Strengthen the existing flood mitigation program
- Improve quality and availability of hazard-related data and geographic information to better understand the vulnerability of existing and future development
- Improve and enhance emergency management capabilities

## **Goal 3: Promote effective training and educational opportunities for the citizens of Kingman County**

- Promote awareness of hazards and vulnerability among citizens, business, industry, school systems, and government
- Provide information on hazard mitigation alternatives and their respective costs, benefits, and impacts
- Ensure that the information provided is accurate and consistent

## **Goal 4: Maintain/provide for FEMA eligibility and work to position jurisdictions for grant funding**

- Identify multiple objective opportunities that can be used to support mitigation activities
- Identify and analyze project cost share options
- Submit mitigation project applications at least annually

## **4.2 Identification and Analysis of Mitigation Actions**

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**44 CFR Requirement §201.6(c)(3)(ii): The mitigation strategy shall include a section that identifies and analyzes a comprehensive range of specific mitigation actions and projects being considered to reduce the effects of each hazard, with particular emphasis on new and existing buildings and infrastructure.**

To identify and analyze potential mitigation actions to achieve the mitigation goals, the HMPC discussed the key issues that emerged in the Risk Assessment at its third meeting.

Representatives from each participating jurisdiction were present to identify and analyze potential mitigation actions. Each hazard identified in Section 3.1 was evaluated. Only those hazards with an overall vulnerability ranking of moderate or high were determined to be a priority hazard and were considered further in the development of hazard-specific mitigation measures. The following are Kingman County's priority hazards:

- Agricultural Infestation
- Drought
  - Expansive Soils

- Extreme Temperature
- Flood
- Hailstorm
- Lightning
- Tornado
  - Windstorm
- Wildfire
- Winter Storm

The HMPC eliminated other hazards from further consideration in the development of mitigation actions because the risk of a hazard event in the County is unlikely, the vulnerability of the County to the hazard is low, or capabilities are already in place to mitigate their negative impacts. It is important to note that many of the final mitigation actions are multi-hazard actions designed to reduce potential losses from all types of hazard events.

At its third meeting, the HMPC was provided with the following list of categories of mitigation actions, which originated from the National Flood Insurance Program’s Community Rating System, as well as definitions and examples for each category:

- 1) **Prevention:** Administrative or regulatory actions or processes that influence the way land and buildings are developed and built
- 2) **Property protection:** Actions that involve the modification of existing buildings or structures to protect them from a hazard or remove them from the hazard area
- 3) **Structural:** Actions that involve the construction of structures to reduce the impact of hazard
- 4) **Natural resource protection:** Actions that, in addition to minimizing hazard losses, also preserve or restore the functions of natural systems
- 5) **Emergency services:** Actions that protect people and property during and immediately after a disaster or hazard event
- 6) **Public education and awareness:** Actions to inform and educate citizens, elected officials, and property owners about the hazards and potential ways to mitigate them.

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**Kingman County HMPC**



The HMPC then analyzed a list of potential structural and nonstructural mitigation alternatives identified by AMEC, which were organized by hazard and based upon the risk assessment, existing capabilities, and plan goals and objectives. Through a facilitated planning process, committee members developed ideas for mitigation actions based upon these

alternatives and their own ideas. Duplicate ideas were condensed to a refined list of mitigation actions that were written on index cards, categorized by mitigation action type, and posted on the wall of meeting room.

Some identified alternatives did not make it to this refined list because they were determined by the HMPC to not be politically, technically, or financially feasible, or because no champion for the action was present in the group. However, these ideas are still captured in Appendix C and may be readdressed if funding opportunities change or during the next plan update process.

### 4.3 Implementation of Mitigation Actions

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**44 CFR Requirement §201.6(c)(3)(ii): The mitigation strategy shall include an action strategy describing how the actions identified in paragraph (c)(2)(ii) will be prioritized, implemented, and administered by the local jurisdiction. Prioritization shall include a special emphasis on the extent to which benefits are maximized according to a cost benefits review of the proposed projects and their associated costs.**

To prioritize the mitigation actions, the HMPC discussed the STAPLEE prioritization criteria recommended by FEMA. STAPLEE is a tool used to assess the costs, benefits and overall feasibility of mitigation actions. STAPLEE stands for the following:

- **S**ocial: Community acceptance? Effect on particular segment of the population?
- **T**echnical: Feasibility? Long-term solution? Secondary impacts?
- **A**dministrative: Staffing? Funding allocated? Maintenance/operations?
- **P**olitical: Political support? Public support?
- **L**egal: State authority? Local authority? Potential legal challenges?
- **E**conomic: Is it cost-beneficial? Is there funding? Contribute to the local economy?
- **E**nvironmental: Comply with environmental regulations? Consistent with community environmental goals?

At its third meeting, the HMPC used STAPLEE to determine which of the identified actions was most likely to be implemented and effective. Each member used STAPLEE to identify his or her top mitigation actions and then voted for these actions by sticking a colored dot on the index cards representing them. The number of dots on each index card was totaled. Based upon the number of dots, or votes, received, the mitigation actions were assigned a priority of high, medium, or

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#### Kingman County Action Item Prioritization



low.

This process of identification and analysis of mitigation options allowed the HMPC to come to consensus and to prioritize recommended mitigation actions. Emphasis was placed on the importance of a cost-benefit analysis in determining project priority; however, this was not a quantitative analysis. The Disaster Mitigation Act regulations state that benefit-cost review is the primary method by which mitigation projects should be prioritized. Recognizing the federal regulatory requirement to prioritize by benefit-cost, and the need for any publicly funded project to be cost-effective, the HMPC decided to pursue implementation according to when and where damage occurs, available funding, political will, jurisdictional priority, and priorities identified in the State of Kansas Hazard Mitigation Plan. Cost-effectiveness will be considered in additional detail when seeking FEMA mitigation grant funding for eligible projects identified in this plan.

Tables 4.1 and 4.2 summarize the regional and community specific identified actions, indicate which jurisdictions plan to implement them, and provide information on the hazards addressed and plan goals achieved. The individual action items, as recommended and prioritized by the HMPC, are presented in order of priority to the region. Each action item includes the background information, ideas for implementation, responsible office, potential funding, cost estimates, benefits, and timeline for each identified action.

**Table 4.1. Mitigation Action Matrix – Regional Actions**

ID	Action	Priority	Goals Addressed	Hazards Addressed
Countywide-1	Educate public on prescribed burns.	High	3	Wildfire
Countywide-2	Provide and/or require tree trimming/maintenance training for local utilities.	High	3	Tornado, Severe Weather
Countywide-3	Investigate potential for reverse 911 system.	High	1	All Hazards
Countywide-4	Provide mobile generators for water/wastewater system operations.	High	1	All Hazards
Countywide-5	Identify potential additional water hydrant locations.	High	1	Wildfire
Countywide-6	Investigate necessary steps to standardize system of emergency communication between jurisdictions.	High	1	All Hazards
Countywide-7	Relocate Sheriff's Office	High	1	Flooding
Countywide-8	Educate the public on the National Flood Insurance Program (NFIP) and flood insurance.	Medium	3	Flooding, Dam/Levee Failure
Countywide-9	Continue tornado spotter training and consider CERT Training.	Medium	3	Tornado, Severe Weather
Countywide-10	Upgrade countywide warning system.	Medium	1	All Hazards
Countywide-11	Identify additional community shelters.	Medium	2	Tornado, Severe Weather
Countywide-12	Increase public and fire department training on wildland urban interface fires.	Medium	3	Wildfire
Countywide-13	Reduce hazardous fuels in prioritized wildfire risk areas.	Medium	1	Wildfire
Countywide-14	Provide homeowner education on wildfire mitigation in wildland-urban interface.	Medium	3	Wildfire
Countywide-15	Develop a countywide Animal Response Plan.	Medium	2	All Hazards
Countywide-16	Investigate and update existing roadway overtopping design standards.	Low	2	Flooding
Countywide-17	Coordinate with Red Cross/Salvation Army during extreme temperature events.	Low	2	Extreme Temperature
Countywide-18	Develop communication network for elderly and isolated population.	Low	1	All Hazards
Countywide-19	Educate townships on benefits of roadside spraying programs.	Low	3	Wildfire
Countywide-20	Educate livestock owners on bio-security.	Low	3	Agricultural Infestation
Countywide-21	Request an update of the countywide flood insurance rate map (FIRM).	Low	1	Flooding, Dam/Levee Failure
Countywide-22	Apply annually for potentially available HMGP and FMA grants.	Low	4	All Hazards

Source: Kingman County HMPC

**Table 4.2. Mitigation Action Matrix – Community Specific Actions**

<b>ID</b>	<b>Action</b>	<b>Priority</b>	<b>Goals Addressed</b>	<b>Hazards Addressed</b>
Cunningham-1	Assist the study contractor in preparing revised Digital Flood Insurance Rate Maps (DFIRMs) by identifying local mapping needs.	Medium	1	Flooding
Cunningham-2	Strengthen floodplain regulations, as appropriate, following DFIRM development.	Medium	1	Flooding
Cunningham-3	Participate in annual review of status of Hazard Mitigation Strategy and 5-year plan update.	Medium	4	All Hazards
Kingman-1	Identify and develop potential evacuation and transportation routes for southern portion of the City of Kingman during flood events.	High	2	Flooding
Kingman-2	Assist the study contractor in preparing revised Digital Flood Insurance Rate Maps (DFIRMs) by identifying local mapping needs.	Medium	1	Flooding
Kingman-3	Strengthen floodplain regulations, as appropriate, following DFIRM development.	Medium	1	Flooding
Kingman-4	Participate in annual review of status of Hazard Mitigation Strategy and 5-year plan update.	Medium	4	All Hazards
Nashville-1	Update and improve fire protection capability of the City of Nashville.	High	1	Wildfire
Nashville-2	Provide storm sirens for the City of Nashville.	High	1, 2	Tornado, Severe Weather
Nashville-3	Assist the study contractor in preparing revised Digital Flood Insurance Rate Maps (DFIRMs) by identifying local mapping needs.	Medium	1	Flooding
Nashville-4	Strengthen floodplain regulations, as appropriate, following DFIRM development.	Medium	1	Flooding
Nashville-5	Participate in annual review of status of Hazard Mitigation Strategy and 5-year plan update.	Medium	4	All Hazards
Norwich-1	Assist the study contractor in preparing revised Digital Flood Insurance Rate Maps (DFIRMs) by identifying local mapping needs.	Medium	1	Flooding
Norwich-2	Strengthen floodplain regulations, as appropriate, following DFIRM development.	Medium	1	Flooding
Norwich-3	Participate in annual review of status of Hazard Mitigation Strategy and 5-year plan update.	Medium	4	All Hazards
Penalosa-1	Assist the study contractor in preparing revised Digital Flood Insurance Rate Maps (DFIRMs) by identifying local mapping needs.	Medium	1	Flooding

<b>ID</b>	<b>Action</b>	<b>Priority</b>	<b>Goals Addressed</b>	<b>Hazards Addressed</b>
Penalosa-2	Strengthen floodplain regulations, as appropriate, following DFIRM development.	Medium	1	Flooding
Penalosa-3	Participate in annual review of status of Hazard Mitigation Strategy and 5-year plan update.	Medium	4	All Hazards
Spivey-1	Assist the study contractor in preparing revised Digital Flood Insurance Rate Maps (DFIRMs) by identifying local mapping needs.	Medium	1	Flooding
Spivey-2	Strengthen floodplain regulations, as appropriate, following DFIRM development.	Medium	1	Flooding
Spivey-3	Participate in annual review of status of Hazard Mitigation Strategy and 5-year plan update.	Medium	4	All Hazards
Zenda-1	Provide storm sirens for the City of Zenda.	High	1, 2	Tornado, Severe Weather
Zenda-2	Assist the study contractor in preparing revised Digital Flood Insurance Rate Maps (DFIRMs) by identifying local mapping needs.	Medium	1	Flooding
Zenda-3	Strengthen floodplain regulations, as appropriate, following DFIRM development.	Medium	1	Flooding
Zenda-4	Participate in annual review of status of Hazard Mitigation Strategy and 5-year plan update.	Medium	4	All Hazards

Source: Kingman County HMPC

## Regional Recommended Action Items

Countywide-1	Public Education - Prescribed Burns
<b>Project Description:</b>	Educate the public on prescribed burns
<b>Jurisdiction:</b>	Countywide
<b>Local Prioritization:</b>	High
<b>Primary Hazard:</b>	Wildfire
<b>Issue/Background:</b>	Fire is a natural process that is essential to the health of prairies and farmland alike. It is used by property owners and land managers to prevent unwanted stands of brush and cedar trees. Used properly, it can be a valuable tool. Used incorrectly, it contributes to many escaped fires in Kansas that cause property damage to neighbors, and expense to already under-funded fire departments.
<b>Plan for Implementation and Administration:</b>	The County may utilize the existing publications prepared by Kansas State University for planning and conducting a prescribed burn to either distribute directly to the public or develop Kingman County specific public education materials.
<b>Lead Agency:</b>	Local Fire Departments; Emergency Management; Public Information Officers
<b>Funding Description:</b>	Existing budget
<b>Total Cost:</b>	\$5,000-\$20,000 depending upon printing and mailing costs, level of volunteer participation, and scope and frequency of events
<b>Benefits (Losses Avoided):</b>	Life-safety; low cost; efficiency of multi-hazard program
<b>Completion Date:</b>	Annually

<b>Countywide-2</b>		<b>Utility – Tree Trimming</b>
<b>Project Description:</b>	Provide and/or require tree trimming/maintenance training for local utilities	
<b>Jurisdiction:</b>	Countywide	
<b>Local Prioritization:</b>	High	
<b>Primary Hazard:</b>	Winter Storms; Severe Weather	
<b>Issue/Background:</b>	Proactive tree-trimming efforts reduce the risk of losing power due to downed trees and branches during severe storms, thereby increasing the safety of the local residents. Additionally, the cost of early trimming can be significantly less than the cost to rebuild or repair power grids.	
<b>Plan for Implementation and Administration:</b>	HMPC/Emergency Management shall meet with local utilities to discuss noted historical events of power outages due to downed power lines, etc.; coordinate with utilities to develop maintenance plan and identify potential training opportunities.	
<b>Lead Agency:</b>	Emergency Management; Local Utilities	
<b>Funding Description:</b>	Existing budget	
<b>Total Cost:</b>	Staff time (20 staff @ \$75 * 8 hours = \$12,000); Cost of training consultant	
<b>Benefits (Losses Avoided):</b>	Life-safety; debris management	
<b>Completion Date:</b>	Within 3 years	

Countywide-3	Reverse 911
<b>Project Description:</b>	Investigate potential for countywide Reverse-911 system
<b>Jurisdiction:</b>	Countywide
<b>Local Prioritization:</b>	High
<b>Primary Hazard:</b>	All Hazards
<b>Issue/Background:</b>	Reverse 911 is a patented communications tool that uses a combination of database and GIS mapping technologies to deliver outbound notifications to communities and citizens. This system allows emergency services to inform the public of a known hazard.
<b>Plan for Implementation and Administration:</b>	Local emergency managers shall meet to investigate the potential for purchasing and installing the reverse 911 system in Kingman County.
<b>Lead Agency:</b>	Emergency Management
<b>Funding Description:</b>	Homeland Security Grants
<b>Total Cost:</b>	Cost is based on several factors such as area population, number and type of phone lines installed, and optional modules added to enhance the system.
<b>Benefits (Losses Avoided):</b>	Increased warning time; life-safety
<b>Completion Date:</b>	Within 3 years

Countywide-4	Utility - Backup
<b>Project Description:</b>	Provide mobile generators for water/wastewater system operations
<b>Jurisdiction:</b>	Countywide
<b>Local Prioritization:</b>	High
<b>Primary Hazard:</b>	All hazards
<b>Issue/Background:</b>	If electrical service is lost during a storm event, Kingman County may lose water and wastewater service creating a health and safety issue.
<b>Plan for Implementation and Administration:</b>	Emergency Management and Water/Wastewater utilities shall meet to discuss need and size of mobile generators for backup. Those utilities needing backup system shall be prioritized for funding requests.
<b>Lead Agency:</b>	Emergency Management; Utilities
<b>Funding Description:</b>	Staff time; HMGP, PDM, Homeland Security Grants
<b>Total Cost:</b>	Staff time (20 staff @ \$75 * 8 hours = \$12,000); purchase cost of generator
<b>Benefits (Losses Avoided):</b>	Reduced losses, life-safety
<b>Completion Date:</b>	Within 3 years

Countywide-5	Water Hydrants
<b>Project Description:</b>	Identify potential additional water hydrant locations
<b>Jurisdiction:</b>	Countywide
<b>Local Prioritization:</b>	High
<b>Primary Hazard:</b>	Wildfire
<b>Issue/Background:</b>	The absence of an onsite water supply suitable for firefighting, such as from hydrants connected to a piped public water supply under pressure, has several negative effects on the rural community. One of these is to add a significant task of finding and accessing a local source for firefighting water. This task can require time and personnel who would otherwise be performing other tasks, it can delay the time when water is first put on the fire, and it can complicate the command task for the officer in charge.
<b>Plan for Implementation and Administration:</b>	Local emergency managers, public works personnel, and water utility personnel shall meet to investigate the potential for installing additional water hydrants (wet and dry) within Kingman County. Alternative sources, such as mobile tankers, will also be discussed.
<b>Lead Agency:</b>	Local Fire Departments
<b>Funding Description:</b>	Staff time; existing budget
<b>Total Cost:</b>	Staff time (15 staff @ \$75 * 8 hours = \$9,000)
<b>Benefits (Losses Avoided):</b>	Life-safety; increased response times
<b>Completion Date:</b>	Within 5 years

Countywide-6	Emergency Communication
<b>Project Description:</b>	Investigate necessary steps to standardize system of emergency communication between jurisdictions.
<b>Jurisdiction:</b>	Countywide
<b>Local Prioritization:</b>	High
<b>Primary Hazard:</b>	All hazards
<b>Issue/Background:</b>	Local jurisdictions within Kingman County do not utilize standard equipment or service provider. Standardizing communication capabilities throughout the county will increase response time and capabilities.
<b>Plan for Implementation and Administration:</b>	Emergency Managers and First Responders shall meet to discuss current communication capabilities and necessary steps to standardize communication throughout county.
<b>Lead Agency:</b>	Emergency Management
<b>Funding Description:</b>	Homeland Security Grants
<b>Total Cost:</b>	Staff time (10 staff @ \$75 * 8 hours = \$6,000)
<b>Benefits (Losses Avoided):</b>	Life-safety; increased response times; efficiency of multi-hazard and multi-jurisdictional planning
<b>Completion Date:</b>	Within 1 year

Countywide - 7		Relocation of Sheriff's Office
<b>Project Description:</b>	Relocate the County Sheriff's office outside of the 100-year floodplain	
<b>Jurisdiction:</b>	Countywide	
<b>Local Prioritization:</b>	High	
<b>Primary Hazard:</b>	Flooding	
<b>Issue/Background:</b>	The Sheriff's office is currently located within the mapped 100-year floodplain. During extreme flood events, the office becomes inoperable and threatens the life-safety of the citizens of the City of Kingman.	
<b>Plan for Implementation and Administration:</b>	Emergency Management staff shall prepare phased grant application for the design and construction of a new Sheriff's Office.	
<b>Lead Agency:</b>	Emergency Management	
<b>Funding Description:</b>	HMGP, PDM, and FMA	
<b>Total Cost:</b>	Design and construction cost of new Sheriff's Office/First Responders Shelter	
<b>Benefits (Losses Avoided):</b>	Protection of critical facilities	
<b>Completion Date:</b>	Within 5 years	

Countywide - 8		Public Education – NFIP and Flood Insurance
<b>Project Description:</b>	Educate the public on the National Flood Insurance Program (NFIP) and flood insurance	
<b>Jurisdiction:</b>	Countywide	
<b>Local Prioritization:</b>	Medium	
<b>Primary Hazard:</b>	Flooding	
<b>Issue/Background:</b>	Congress established the National Flood Insurance Program (NFIP) to address both the need for flood insurance and the need to lessen the devastating consequences of flooding. The goals of the program are twofold: to protect communities from potential flood damage through floodplain management, and to provide people with flood insurance.	
<b>Plan for Implementation and Administration:</b>	Emergency Management shall meet with community Public Information officers to determine best methods for providing information to the citizens of Kingman County regarding flood insurance. The Floodsmart.gov website provides many educational materials for the County to utilize.	
<b>Lead Agency:</b>	Emergency Management; Community Development; Public Information	
<b>Funding Description:</b>	Staff time; existing budget	
<b>Total Cost:</b>	Staff time (5 staff @ \$75 * 8 hours = \$3,000); \$5-\$20,000 depending upon printing and mailing costs, level of volunteer participation, and scope and frequency of events.	
<b>Benefits (Losses Avoided):</b>	Improve access to information regarding the floodplain development program by the public, real estate agents, insurance agents, homeowners, and business owners.	
<b>Completion Date:</b>	Within 3 years	

<b>Countywide-9</b>		<b>Public Education – Tornado Spotter and CERT</b>	
<b>Project Description:</b>	Continue tornado spotter training and CERT		
<b>Jurisdiction:</b>	Countywide		
<b>Local Prioritization:</b>	Medium		
<b>Primary Hazard:</b>	Tornado, Severe Weather		
<b>Issue/Background:</b>	<p>The Community Emergency Response Team (CERT) Program educates people about disaster preparedness for hazards that may impact their area and trains them in basic disaster response skills, such as fire safety, light search and rescue, team organization, and disaster medical operations. Using the training learned in the classroom and during exercises, CERT members can assist others in their neighborhood or workplace following an event when professional responders are not immediately available to help.</p> <p>An additional option for public involvement includes weather spotting. Weather spotters provide invaluable assistance and critical information to decision makers when hazardous weather threatens the community. Countless lives have been saved because of this unique partnership between volunteer storm spotters, emergency management, and the National Weather Service.</p>		
<b>Plan for Implementation and Administration:</b>	Coordinate with NWS to hold annual weather spotter training and develop program for CERT Training		
<b>Lead Agency:</b>	Emergency Management Officials; National Weather Service		
<b>Funding Description:</b>	Existing budget; NWS Grant funding		
<b>Total Cost:</b>	Staff time (2 staff @ \$75 * 16 hours = \$2,400)		
<b>Benefits (Losses Avoided):</b>	Life-safety; increased awareness and warning times		
<b>Completion Date:</b>	Annually		

Countywide-10		Warning System - Update	
<b>Project Description:</b>	Update countywide warning system		
<b>Jurisdiction:</b>	Countywide		
<b>Local Prioritization:</b>	Medium		
<b>Primary Hazard:</b>	All hazards		
<b>Issue/Background:</b>	Severe weather has been identified by the HMPC as a priority hazard for Kingman County. A potential mitigation measure for severe weather includes warning systems.		
<b>Plan for Implementation and Administration:</b>	Emergency management officials shall meet to discuss current warning systems within jurisdictions and investigate countywide warning systems for severe weather.		
<b>Lead Agency:</b>	Emergency Management		
<b>Funding Description:</b>	Homeland Security Grant; National Weather Service Grants		
<b>Total Cost:</b>	Staff time (10 staff @ \$75 * 8 hours = \$6,000); Purchase cost of Sirens		
<b>Benefits (Losses Avoided):</b>	Improved warning, increased lead time on warning systems and mitigation efforts, reduced losses, life-safety		
<b>Completion Date:</b>	Within 1 year		

Countywide-11	Community Shelters
<b>Project Description:</b>	Identify additional community shelters
<b>Jurisdiction:</b>	Countywide
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	Tornado, Severe Weather
<b>Issue/Background:</b>	Tornadoes and severe weather in Kingman County pose a serious threat to buildings and their occupants. Residential structures may be built to existing code requirements, but that does not mean the structure can withstand winds from extreme events such as tornadoes. The purpose of a community shelter is to provide a space where citizens can seek refuge, when away from their homes, that provides a high level of protection.
<b>Plan for Implementation and Administration:</b>	Emergency managers shall meet to identify potential locations for additional community shelters. Both stand-alone and internal community shelters may be constructed near or within school buildings, hospitals and other critical care facilities, nursing homes, commercial buildings, disaster recovery shelters, and other buildings or facilities occupied by large numbers of people. Stand-alone community shelters may be constructed in neighborhoods where existing homes lack shelters.
<b>Lead Agency:</b>	Emergency Management; School District Officials
<b>Funding Description:</b>	HMGP; PDM; staff time; existing budget
<b>Total Cost:</b>	Staff time (10 staff @ \$75 * 8 hours = \$6,000); Construction cost of FEMA 361 Shelter
<b>Benefits (Losses Avoided):</b>	Life-safety
<b>Completion Date:</b>	Within 1 year

Countywide-12		WUI Fire Training	
<b>Project Description:</b>	Increase public and fire department training on wildland urban interface fires		
<b>Jurisdiction:</b>	Countywide		
<b>Local Prioritization:</b>	Medium		
<b>Primary Hazard:</b>	Wildfire		
<b>Issue/Background:</b>	Wildfires in the Wildland Urban Interface (WUI), or any location where a fire can spread from vegetation (wildland fuels) to man-made (urban fuels) presents a unique and potentially very dangerous set of hazards to the firefighters that respond to them as well as the public that lives in areas where such fires occur.		
<b>Plan for Implementation and Administration:</b>	Several trainings can be implemented to increase the general, tactical, and safety knowledge of anyone living in or responding to fires in the WUI. Topics from tactical decision making to assistance with pre-incident assessments of properties that may be impacted should be covered in these training sessions.		
<b>Lead Agency:</b>	Kansas Forest Service; Local Fire Departments, and Communities		
<b>Funding Description:</b>	The Kansas Forest Service along with its state and federal partners can assist with providing such training opportunities.		
<b>Total Cost:</b>	\$30 per student per training session		
<b>Benefits (Losses Avoided):</b>	Additional training on the specific tactics and strategies to use in the WUI will increase public and emergency responder safety.		
<b>Completion Date:</b>	On-Going		

Countywide-13	Hazardous Fuels Reduction
<b>Project Description:</b>	Reduce hazardous fuels in prioritized wildfire risk areas
<b>Jurisdiction:</b>	Countywide
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	Wildfire
<b>Issue/Background:</b>	Past experience has shown that there is a threat of having wildland/urban interface fire problems in this area. The Wildland Urban Interface (WUI) is any location where a fire can spread from vegetation (wildland fuels) to man-made (urban fuels). As part of the planning process a wildfire hazard assessment has been conducted to begin to identify those locations that might be in need of some hazard fuel reduction work.
<b>Plan for Implementation and Administration:</b>	In those areas that have been prioritized as posing a threat for wildland/urban interface fires, fuel reduction will be used to create fuel breaks between the wildland fuels and the urban environment. Methods used will be mechanical removal of fuel, mechanical thinning of fuel, and/or prescribed fire.
<b>Lead Agency:</b>	Kansas Forest Service and the Local Fire Departments; Home Owners Associations and Rural Communities
<b>Funding Description:</b>	The Kansas Forest Service will assist qualifying communities with pursuing federal WUI grant dollars for hazardous fuel reduction projects.
<b>Total Cost:</b>	Approximately \$85/ac for hazardous fuel reduction projects.
<b>Benefits (Losses Avoided):</b>	Hazardous fuel reduction will enable local fire departments to more safely engage and suppress wild fires without the added concern of those fires impacting the wildland/urban interface.
<b>Completion Date:</b>	On-going

Countywide-14	Public Education – WUI
<b>Project Description:</b>	Provide homeowner education on wildfire mitigation in wildland-urban interface
<b>Jurisdiction:</b>	Countywide
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	Wildfire
<b>Issue/Background:</b>	Before times and conditions of wildfire danger occur homeowners living in the wildland/urban interface need to have the knowledge to prepare their homes and property to be as safe and defensible as possible.
<b>Plan for Implementation and Administration:</b>	Educational workshops be put on for homeowners associations and/or in rural communities to provide homeowners with property in the wildland/urban interface information on steps that they can take on their own to defend their property from wildfire. Existing programs such as the FIREWISE Communities USA program could be used to supplement local knowledge and expertise provided by the local fire departments and the Kansas Forest Service in providing the needed information at these workshops.
<b>Lead Agency:</b>	Kansas Forest Service and local Fire Departments; Home owners associations, rural communities
<b>Funding Description:</b>	Kansas Forest Service and federal grants
<b>Total Cost:</b>	Materials and presenter time per workshop is estimated to be approximately \$500.
<b>Benefits (Losses Avoided):</b>	Losses avoided would be lessening the chances for a fire to spread from vegetation (wildland fuels) to man-made (urban fuels).
<b>Completion Date:</b>	On-going

Countywide-15	Animal Response Plan
<b>Project Description:</b>	Develop a countywide Animal Response Plan
<b>Jurisdiction:</b>	Countywide
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	All hazards
<b>Issue/Background:</b>	Develop a countywide Animal Response Plan to deal with displaced, diseased, injured and dead animals resulting from all hazards. The plan would address both livestock and companion animals. Animals may be affected by fire, flood, tornado, blizzard, chemical, biological, explosive, radiological or nuclear events. HR3858 amends the Stafford Disaster Relief and Emergency Assistance Act to require the Director of FEMA to study and develop plans and make financial contributions based on the programs and projects approved by the Director. This Act applies to pets and service animals only.
<b>Plan for Implementation and Administration:</b>	In addition to developing a comprehensive county plan to respond to animal needs during emergencies, the County Emergency Manager may utilize the assets provided by the County Animal Response Team, the State Animal Response Team, the Kansas Veterinary Medical Association, and the Kansas Animal Health Department.
<b>Lead Agency:</b>	Emergency Management
<b>Funding Description:</b>	Existing budget; FEMA; donations
<b>Total Cost:</b>	Volunteer participation; Staff time to complete countywide plan (1 staff @ \$75 * 40 hours = \$3,000);
<b>Benefits (Losses Avoided):</b>	Health/safety; low cost; multi-hazard
<b>Completion Date:</b>	Annually

Countywide-16	Roadway Overtopping
<b>Project Description:</b>	Investigate and update existing roadway overtopping design standards
<b>Jurisdiction:</b>	Countywide
<b>Local Prioritization:</b>	Low
<b>Primary Hazard:</b>	Flooding
<b>Issue/Background:</b>	During previous flood events, roadway overtopping was repeatedly noted as a problem within the County. Roadway design standards within Kingman County should be compared against state design standards and flood elevations.
<b>Plan for Implementation and Administration:</b>	Public Works Department shall review current design standards and noted roadway overtopping issues.
<b>Lead Agency:</b>	Public Works Department; Township Board Members
<b>Funding Description:</b>	Staff Time; existing budget
<b>Total Cost:</b>	Staff time (5 staff @ \$75 * 8 hours = \$3,000)
<b>Benefits (Losses Avoided):</b>	Life-safety
<b>Completion Date:</b>	Within 1 year

Countywide-17	Extreme Temperature
<b>Project Description:</b>	Coordinate with Red Cross/Salvation Army during extreme temperature events
<b>Jurisdiction:</b>	Countywide
<b>Local Prioritization:</b>	Low
<b>Primary Hazard:</b>	Extreme Temperatures
<b>Issue/Background:</b>	During extreme temperature events (both cold and hot weather), there are many citizens within Kingman County who need assistance. Assistance may include providing water, blankets, fans, etc.
<b>Plan for Implementation and Administration:</b>	Emergency Management shall coordinate with the Red Cross on existing capabilities and potential partnerships.
<b>Lead Agency:</b>	Emergency Management; local American Red Cross; local Salvation Army
<b>Funding Description:</b>	Existing budget
<b>Total Cost:</b>	Staff time (10 staff @ \$75 * 8 hours = \$6,000)
<b>Benefits (Losses Avoided):</b>	Life-safety
<b>Completion Date:</b>	Within 1 year

Countywide-18	Communication Network for Public
<b>Project Description:</b>	Develop communication network for elderly and isolated population
<b>Jurisdiction:</b>	Countywide
<b>Local Prioritization:</b>	Low
<b>Primary Hazard:</b>	All hazards
<b>Issue/Background:</b>	Several citizens within Kingman County often become isolated during hazard events. Isolation may include inability to communicate with County emergency services and/or inability to travel outside of the home to purchase food, water, etc.
<b>Plan for Implementation and Administration:</b>	Emergency Managers and Community Development individuals shall meet to discuss the identification of potentially isolated population. Community Development shall also develop communication network and/or outreach program.
<b>Lead Agency:</b>	Emergency Management; Community Development; Council on the Aging
<b>Funding Description:</b>	Existing budget
<b>Total Cost:</b>	Staff time (10 staff @ \$75 * 8 hours = \$6,000)
<b>Benefits (Losses Avoided):</b>	Life-safety
<b>Completion Date:</b>	Within 3 years

<b>Countywide-19</b>		<b>Public Education – Noxious Weeds</b>	
<b>Project Description:</b>	Educate townships on benefits of roadside spraying programs		
<b>Jurisdiction:</b>	Countywide		
<b>Local Prioritization:</b>	Low		
<b>Primary Hazard:</b>	Wildfire; Agricultural Infestation		
<b>Issue/Background:</b>	The Kansas Noxious Weed Law was first enacted in 1937. It is designed to control, manage and eradicate 14 plants designated as noxious weeds by the Kansas Legislature. The Kingman County Board of Commissioners and the County Weed Supervisor are responsible for conducting the noxious weed control program in the County. Additional support and participation by the County townships would help control and eradicate all noxious weeds.		
<b>Plan for Implementation and Administration:</b>	County Weed Supervisor and Public Information Officer shall meet to discuss public educational opportunities and outlets to reach the townships regarding noxious weeds.		
<b>Lead Agency:</b>	County Weed Supervisor; Public Information Officer		
<b>Funding Description:</b>	Staff time; HMGP, and PDM		
<b>Total Cost:</b>	Staff time (5 staff @ \$75 * 8 hours = \$3,000); \$5-\$20,000 depending upon printing and mailing costs, level of volunteer participation, and scope and frequency of events.		
<b>Benefits (Losses Avoided):</b>	Life-safety		
<b>Completion Date:</b>	Within 3 years		

Countywide-20	Bio-Security
<b>Project Description:</b>	Educate livestock owners on bio-security
<b>Jurisdiction:</b>	Countywide
<b>Local Prioritization:</b>	Low
<b>Primary Hazard:</b>	Agricultural Infestation
<b>Issue/Background:</b>	Bio-security is the implementation of measures to reduce the chances of an infectious disease being carried onto private farmland by people, animals, equipment, or vehicles. It also includes implementation measures to reduce the chance of disease leaving private farmland and entering the public sector.
<b>Plan for Implementation and Administration:</b>	County Agricultural Extension Office shall meet with the Public Information Officer to research and/or develop public education materials regarding livestock bio-security which can be distributed to the agricultural community within Kingman County.
<b>Lead Agency:</b>	County Agricultural Extension Office
<b>Funding Description:</b>	Existing budget; USDA
<b>Total Cost:</b>	Staff time (5 staff @ \$75 * 8 hours = \$3,000); \$5-\$20,000 depending upon printing and mailing costs, level of volunteer participation, and scope and frequency of events.
<b>Benefits (Losses Avoided):</b>	Disease prevention
<b>Completion Date:</b>	Within 3 years

Countywide - 21	Update FIRM
<b>Project Description:</b>	Update current effective Flood Insurance Rate Maps (FIRMs)
<b>Jurisdiction:</b>	Countywide
<b>Local Prioritization:</b>	Low
<b>Primary Hazard:</b>	Flooding
<b>Issue/Background:</b>	The current effective flood insurance rate maps (FIRMS) for Kingman County are dated 1988 and do not accurately reflect the current flood hazard, topography, etc.
<b>Plan for Implementation and Administration:</b>	Assist the study contractor in preparing Digital Flood Insurance Rate Maps (DFIRMs) for Kingman County by identifying local mapping needs and participating in planning and review process. Provide topographic data, contour data, other GIS data, as needed.
<b>Lead Agency:</b>	Local Floodplain Managers; Land Use
<b>Funding Description:</b>	Staff Time; FEMA
<b>Total Cost:</b>	Staff time (4 staff @ \$75 * 16 hours = \$4,800)
<b>Benefits (Losses Avoided):</b>	Updated and more accurate floodplain maps; reduced risk of property damage
<b>Completion Date:</b>	Within 3 years

Countywide-22	Grant Application Preparation
<b>Project Description:</b>	Apply annually for potentially available HMGP, PDM, and FMA grants
<b>Jurisdiction:</b>	Countywide
<b>Local Prioritization:</b>	Low
<b>Primary Hazard:</b>	All hazards
<b>Issue/Background:</b>	FEMA offers multiple programs to assist local communities with reducing future loss of lives and properties due to disasters. The Hazard Mitigation Grant Program (HMGP) provides grants to local communities to implement long-term hazard mitigation measures such as elevation, acquisition, or relocation of flood-prone structures after a major disaster declaration. The Pre-Disaster Mitigation (PDM) program provides funds to communities for hazard mitigation planning and the implementation of mitigation projects prior to a disaster event. The Flood Mitigation Assistance (FMA) program provides grants to communities for projects that reduce the risk of flood damage to structures that have flood insurance coverage. FEMA's mitigation grant programs are administered by KDEM, which prioritizes and selects project applications developed and submitted by local jurisdictions.
<b>Plan for Implementation and Administration:</b>	Emergency Managers shall meet annually to review local hazard mitigation plan and needs within the community, and prepare applications to secure federal funding.
<b>Lead Agency:</b>	Emergency Management
<b>Funding Description:</b>	Existing budget
<b>Total Cost:</b>	Staff time to complete grant applications (1 staff @ \$75 * 8 hours = \$600)
<b>Benefits (Losses Avoided):</b>	Potential funding sources for action items of this mitigation plan
<b>Completion Date:</b>	Annually and following disaster declarations

## Community Specific Recommended Action Items

### City of Cunningham

Cunningham-1	FIRM Update
<b>Project Description:</b>	Assist the study contractor in preparing revised Digital Flood Insurance Rate Maps (DFIRMs) by identifying local mapping needs
<b>Jurisdiction:</b>	City of Cunningham
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	Flood
<b>Issue/Background:</b>	The most recent effective flood insurance rate maps (FIRMS) for the City of Cunningham are dated 1976 and do not accurately reflect the current flood hazard, topography, etc.
<b>Plan for Implementation and Administration:</b>	Assist the study contractor in preparing Digital Flood Insurance Rate Maps (DFIRMs) for Kingman County by identifying local mapping needs and participating in planning and review process. Provide topographic data, contour data, other GIS data, as needed.
<b>Lead Agency:</b>	Local Floodplain Manager; Land Use Departments; GIS Staff
<b>Funding Description:</b>	Staff time; FEMA
<b>Total Cost:</b>	Staff time (5 staff @ \$75 * 24 hours = \$9,000)
<b>Benefits (Losses Avoided):</b>	Updated and more accurate floodplain maps; reduced risk of property damage
<b>Completion Date:</b>	Within 5 years

Cunningham-2	Floodplain Ordinance
<b>Project Description:</b>	Strengthen floodplain ordinance, as appropriate, following DFIRM development
<b>Jurisdiction:</b>	City of Cunningham
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	Flood
<b>Issue/Background:</b>	The current effective flood insurance rate maps (FIRMS) for the City of Cunningham are dated 1976. The FEMA Map Modernization process may identify new areas of flooding, flood elevations, etc.
<b>Plan for Implementation and Administration:</b>	Update current floodplain ordinance to reflect updated Flood Insurance Rate Maps.
<b>Lead Agency:</b>	Local Floodplain Manager
<b>Funding Description:</b>	Staff time
<b>Total Cost:</b>	Staff time (1 staff @ \$75 * 8 hours = \$600)
<b>Benefits (Losses Avoided):</b>	Life-safety; reduced risk of property damage
<b>Completion Date:</b>	Within 5 years

<b>Cunningham-3</b>		<b>Hazard Mitigation Plan Update</b>	
<b>Project Description:</b>	Participate in annual review of status of Hazard Mitigation Strategy and 5-year plan update		
<b>Jurisdiction:</b>	City of Cunningham		
<b>Local Prioritization:</b>	Medium		
<b>Primary Hazard:</b>	All Hazards		
<b>Issue/Background:</b>	The Hazard Mitigation Plan is required to be monitored, evaluated, and updated every five years (See Section 5).		
<b>Plan for Implementation and Administration:</b>	The Hazard Mitigation Planning Committee shall meet annually to review status of Hazard Mitigation Strategy and individual action items. The annual review will assist in identifying success and needs for implementation.		
<b>Lead Agency:</b>	The Kingman County emergency manager is responsible for initiating these plan reviews.		
<b>Funding Description:</b>	Existing budget		
<b>Total Cost:</b>	Staff Time (20 * \$75 @ 4 hours = \$6,000)		
<b>Benefits (Losses Avoided):</b>	Reduction in future hazard related losses of life and property.		
<b>Completion Date:</b>	Annually		

## City of Kingman

Kingman-1	Evacuation Routes
<b>Project Description:</b>	Identify and develop potential evacuation and transportation routes for the southern portion of the City of Kingman during flood events
<b>Jurisdiction:</b>	City of Kingman
<b>Local Prioritization:</b>	High
<b>Primary Hazard:</b>	Flooding
<b>Issue/Background:</b>	During extreme flood events, the City of Kingman can potentially be divided by the floodwaters of the South Fork Ninnescah River. The floodwaters may divide the City and separate citizens from necessary emergency management services.
<b>Plan for Implementation and Administration:</b>	The local floodplain manager, emergency management, and public works personnel shall meet to determine potential evacuation routes for the citizens of the City of Kingman that live south of the crossing of the South Fork Ninnescah River.
<b>Lead Agency:</b>	Local Floodplain Manager; Emergency Management; Public Works
<b>Funding Description:</b>	Existing budget
<b>Total Cost:</b>	Staff time (20 * \$75 @ 4 hours = \$6,000)
<b>Benefits (Losses Avoided):</b>	Life-safety
<b>Completion Date:</b>	Within 3 years

<b>Kingman-2</b>		<b>FIRM Update</b>	
<b>Project Description:</b>	Assist the study contractor in preparing revised Digital Flood Insurance Rate Maps (DFIRMs) by identifying local mapping needs		
<b>Jurisdiction:</b>	City of Kingman		
<b>Local Prioritization:</b>	Medium		
<b>Primary Hazard:</b>	Flood		
<b>Issue/Background:</b>	The most recent effective flood insurance rate maps (FIRMS) for the City of Kingman are dated 1980 and do not accurately reflect the current flood hazard, topography, etc.		
<b>Plan for Implementation and Administration:</b>	Assist the study contractor in preparing Digital Flood Insurance Rate Maps (DFIRMs) for Kingman County by identifying local mapping needs and participating in planning and review process. Provide topographic data, contour data, other GIS data, as needed.		
<b>Lead Agency:</b>	Local Floodplain Manager; Land Use Departments; GIS Staff		
<b>Funding Description:</b>	Staff time; FEMA		
<b>Total Cost:</b>	Staff time (5 staff @ \$75 * 24 hours = \$9,000)		
<b>Benefits (Losses Avoided):</b>	Updated and more accurate floodplain maps; reduced risk of property damage		
<b>Completion Date:</b>	Within 5 years		

Kingman-3	Floodplain Ordinance
<b>Project Description:</b>	Strengthen floodplain ordinance, as appropriate, following DFIRM development
<b>Jurisdiction:</b>	City of Kingman
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	Flood
<b>Issue/Background:</b>	The current effective flood insurance rate maps (FIRMS) for the City of Kingman are dated 1980. The FEMA Map Modernization process may identify new areas of flooding, flood elevations, etc.
<b>Plan for Implementation and Administration:</b>	Update current floodplain ordinance to reflect updated Flood Insurance Rate Maps.
<b>Lead Agency:</b>	Local Floodplain Manager
<b>Funding Description:</b>	Staff time
<b>Total Cost:</b>	Staff time (1 staff @ \$75 * 8 hours = \$600)
<b>Benefits (Losses Avoided):</b>	Life-safety; reduced risk of property damage
<b>Completion Date:</b>	Within 5 years

<b>Kingman-4 Hazard Mitigation Plan Update</b>	
<b>Project Description:</b>	Participate in annual review of status of Hazard Mitigation Strategy and 5-year plan update.
<b>Jurisdiction:</b>	City of Kingman
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	All Hazards
<b>Issue/Background:</b>	The Hazard Mitigation Plan is required to be monitored, evaluated, and updated every five years (See Section 5).
<b>Plan for Implementation and Administration:</b>	The Hazard Mitigation Planning Committee shall meet annually to review status of Hazard Mitigation Strategy and individual action items. The annual review will assist in identifying success and needs for implementation.
<b>Lead Agency:</b>	The Kingman County emergency manager is responsible for initiating these plan reviews.
<b>Funding Description:</b>	Existing budget
<b>Total Cost:</b>	Staff time (20 * \$75 @ 4 hours = \$6,000)
<b>Benefits (Losses Avoided):</b>	Reduction in future hazard related losses of life and property.
<b>Completion Date:</b>	Annually

## City of Nashville

Nashville-1	Fire Protection Capability
<b>Project Description:</b>	Update and improve fire protection capability of the City of Nashville.
<b>Jurisdiction:</b>	City of Nashville
<b>Local Prioritization:</b>	High
<b>Primary Hazard:</b>	Wildfire
<b>Issue/Background:</b>	The current City well does not provide adequate water supply necessary for demands of wildfire protection within the community.
<b>Plan for Implementation and Administration:</b>	Local Fire Department shall investigate increasing water supply and pumping potential. Local Fire Department shall also update existing mutual aid agreement with neighboring Zenda for fire protection services
<b>Lead Agency:</b>	Local Fire Department
<b>Funding Description:</b>	Community Development Block Grant; U.S. Forest Service
<b>Total Cost:</b>	\$15,000
<b>Benefits (Losses Avoided):</b>	Wildfire protection; life-safety; increased fire protection rating
<b>Completion Date:</b>	Within 3 years

Nashville-2	Storm Sirens
<b>Project Description:</b>	Provide storm sirens for the City of Nashville
<b>Jurisdiction:</b>	City of Nashville
<b>Local Prioritization:</b>	High
<b>Primary Hazard:</b>	All hazards
<b>Issue/Background:</b>	The City of Nashville does not currently have a storm siren system.
<b>Plan for Implementation and Administration:</b>	Emergency Managers shall prepare grant applications for the purchase and installation of a storm siren within the City of Nashville.
<b>Lead Agency:</b>	Emergency Management; local Fire Department
<b>Funding Description:</b>	Staff time; existing budget; Homeland Security Grant; NWS Grants
<b>Total Cost:</b>	Staff time (10 staff @ \$75 * 8 hours = \$6,000); purchase cost of storm siren.
<b>Benefits (Losses Avoided):</b>	Improved warning, increased lead time on warning systems and mitigation efforts, reduced losses, life-safety
<b>Completion Date:</b>	Within 3 years

<b>Nashville-3</b>		<b>FIRM Update</b>	
<b>Project Description:</b>	Assist the study contractor in preparing revised Digital Flood Insurance Rate Maps (DFIRMs) by identifying local mapping needs		
<b>Jurisdiction:</b>	City of Nashville		
<b>Local Prioritization:</b>	Medium		
<b>Primary Hazard:</b>	Flood		
<b>Issue/Background:</b>	The City of Nashville does not have a current effective Flood Insurance Rate Map or a map of identified flooding areas.		
<b>Plan for Implementation and Administration:</b>	Assist the study contractor in preparing Digital Flood Insurance Rate Maps (DFIRMs) for Kingman County by identifying local mapping needs and participating in planning and review process. Provide topographic data, contour data, other GIS data, as needed.		
<b>Lead Agency:</b>	Local Floodplain Manager; Land Use Departments; GIS Staff		
<b>Funding Description:</b>	Staff time; FEMA		
<b>Total Cost:</b>	Staff time (5 staff @ \$75 * 24 hours = \$9,000)		
<b>Benefits (Losses Avoided):</b>	Updated and more accurate floodplain maps; reduced risk of property damage		
<b>Completion Date:</b>	Within 5 years		

<b>Nashville-4</b>		<b>Floodplain Ordinance</b>	
<b>Project Description:</b>	Strengthen floodplain ordinance, as appropriate, following DFIRM development		
<b>Jurisdiction:</b>	City of Nashville		
<b>Local Prioritization:</b>	Medium		
<b>Primary Hazard:</b>	Flood		
<b>Issue/Background:</b>	The FEMA map modernization process may identify new areas of flooding, flood elevations, etc. within the City of Nashville.		
<b>Plan for Implementation and Administration:</b>	Update current floodplain ordinance to reflect updated Flood Insurance Rate Maps.		
<b>Lead Agency:</b>	Local Floodplain Manager		
<b>Funding Description:</b>	Staff time		
<b>Total Cost:</b>	Staff time (1 staff @ \$75 * 8 hours = \$600)		
<b>Benefits (Losses Avoided):</b>	Life-safety; reduced risk of property damage		
<b>Completion Date:</b>	Within 5 years		

<b>Nashville-5</b>		<b>Hazard Mitigation Plan Update</b>	
<b>Project Description:</b>	Participate in annual review of status of Hazard Mitigation Strategy and 5-year plan update		
<b>Jurisdiction:</b>	City of Nashville		
<b>Local Prioritization:</b>	Medium		
<b>Primary Hazard:</b>	All Hazards		
<b>Issue/Background:</b>	The Hazard Mitigation Plan is required to be monitored, evaluated, and updated every five years (See Section 5).		
<b>Plan for Implementation and Administration:</b>	The Hazard Mitigation Planning Committee shall meet annually to review status of Hazard Mitigation Strategy and individual action items. The annual review will assist in identifying success and needs for implementation.		
<b>Lead Agency:</b>	The Kingman County emergency manager is responsible for initiating these plan reviews.		
<b>Funding Description:</b>	Existing budget		
<b>Total Cost:</b>	Staff Time (20 * \$75 @ 4 hours = \$6,000)		
<b>Benefits (Losses Avoided):</b>	Reduction in future hazard related losses of life and property.		
<b>Completion Date:</b>	Annually		

## City of Norwich

Norwich-1	FIRM Update
<b>Project Description:</b>	Assist the study contractor in preparing revised Digital Flood Insurance Rate Maps (DFIRMs) by identifying local mapping needs
<b>Jurisdiction:</b>	City of Norwich
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	Flood
<b>Issue/Background:</b>	The City of Norwich does not have a current effective Flood Insurance Rate Map or a map of identified flooding areas.
<b>Plan for Implementation and Administration:</b>	Assist the study contractor in preparing Digital Flood Insurance Rate Maps (DFIRMs) for Kingman County by identifying local mapping needs and participating in planning and review process. Provide topographic data, contour data, other GIS data, as needed.
<b>Lead Agency:</b>	Local Floodplain Manager; Land Use Departments; GIS Staff
<b>Funding Description:</b>	Staff time; FEMA
<b>Total Cost:</b>	Staff time (5 staff @ \$75 * 24 hours = \$9,000)
<b>Benefits (Losses Avoided):</b>	Updated and more accurate floodplain maps; reduced risk of property damage
<b>Completion Date:</b>	Within 5 years

Norwich-2		Floodplain Ordinance	
<b>Project Description:</b>	Strengthen floodplain ordinance, as appropriate, following DFIRM development		
<b>Jurisdiction:</b>	City of Norwich		
<b>Local Prioritization:</b>	Medium		
<b>Primary Hazard:</b>	Flood		
<b>Issue/Background:</b>	The FEMA map modernization process may identify new areas of flooding, flood elevations, etc. within the City of Norwich.		
<b>Plan for Implementation and Administration:</b>	Update current floodplain ordinance to reflect updated Flood Insurance Rate Maps.		
<b>Lead Agency:</b>	Local Floodplain Manager		
<b>Funding Description:</b>	Staff time		
<b>Total Cost:</b>	Staff time (1 staff @ \$75 * 8 hours = \$600)		
<b>Benefits (Losses Avoided):</b>	Life-safety; reduced risk of property damage		
<b>Completion Date:</b>	Within 5 years		

<b>Norwich-3</b>		<b>Hazard Mitigation Plan Update</b>	
<b>Project Description:</b>	Participate in annual review of status of Hazard Mitigation Strategy and 5-year plan update		
<b>Jurisdiction:</b>	City of Norwich		
<b>Local Prioritization:</b>	Medium		
<b>Primary Hazard:</b>	All Hazards		
<b>Issue/Background:</b>	The Hazard Mitigation Plan is required to be monitored, evaluated, and updated every five years (See Section 5).		
<b>Plan for Implementation and Administration:</b>	The Hazard Mitigation Planning Committee shall meet annually to review status of Hazard Mitigation Strategy and individual action items. The annual review will assist in identifying success and needs for implementation.		
<b>Lead Agency:</b>	The Kingman County emergency manager is responsible for initiating these plan reviews.		
<b>Funding Description:</b>	Existing budget		
<b>Total Cost:</b>	Staff Time (20 * \$75 @ 4 hours = \$6,000)		
<b>Benefits (Losses Avoided):</b>	Reduction in future hazard related losses of life and property.		
<b>Completion Date:</b>	Annually		

## City of Penalosa

Penalosa-1	FIRM Update
<b>Project Description:</b>	Assist the study contractor in preparing revised Digital Flood Insurance Rate Maps (DFIRMs) by identifying local mapping needs
<b>Jurisdiction:</b>	City of Penalosa
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	Flood
<b>Issue/Background:</b>	The City of Penalosa does not have a current effective Flood Insurance Rate Map or a map of identified flooding areas.
<b>Plan for Implementation and Administration:</b>	Assist the study contractor in preparing Digital Flood Insurance Rate Maps (DFIRMs) for Kingman County by identifying local mapping needs and participating in planning and review process. Provide topographic data, contour data, other GIS data, as needed.
<b>Lead Agency:</b>	Local Floodplain Manager; Land Use Departments; GIS Staff
<b>Funding Description:</b>	Staff time; FEMA
<b>Total Cost:</b>	Staff time (5 staff @ \$75 * 24 hours = \$9,000)
<b>Benefits (Losses Avoided):</b>	Updated and more accurate floodplain maps; reduced risk of property damage
<b>Completion Date:</b>	Within 5 years

Penalosa-2	Floodplain Ordinance
<b>Project Description:</b>	Strengthen floodplain ordinance, as appropriate, following DFIRM development
<b>Jurisdiction:</b>	City of Penalosa
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	Flood
<b>Issue/Background:</b>	The FEMA map modernization process may identify new areas of flooding, flood elevations, etc. within the City of Penalosa.
<b>Plan for Implementation and Administration:</b>	Update current floodplain ordinance to reflect updated Flood Insurance Rate Maps.
<b>Lead Agency:</b>	Local Floodplain Manager
<b>Funding Description;</b>	Staff time
<b>Total Cost:</b>	Staff time (1 staff @ \$75 * 8 hours = \$600)
<b>Benefits (Losses Avoided):</b>	Life-safety; reduced risk of property damage
<b>Completion Date:</b>	Within 5 years

<b>Penalosa-3 Hazard Mitigation Plan Update</b>	
<b>Project Description:</b>	Participate in annual review of status of Hazard Mitigation Strategy and 5-year plan update
<b>Jurisdiction:</b>	City of Penalosa
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	All Hazards
<b>Issue/Background:</b>	The Hazard Mitigation Plan is required to be monitored, evaluated, and updated every five years (See Section 5).
<b>Plan for Implementation and Administration:</b>	The Hazard Mitigation Planning Committee shall meet annually to review status of Hazard Mitigation Strategy and individual action items. The annual review will assist in identifying success and needs for implementation.
<b>Lead Agency:</b>	The Kingman County emergency manager is responsible for initiating these plan reviews.
<b>Funding Description:</b>	Existing Budget
<b>Total Cost:</b>	Staff Time (20 * \$75 @ 4 hours = \$6,000)
<b>Benefits (Losses Avoided):</b>	Reduction in future hazard related losses of life and property.
<b>Completion Date:</b>	Annually

## City of Spivey

Spivey-1	FIRM Update
<b>Project Description:</b>	Assist the study contractor in preparing revised Digital Flood Insurance Rate Maps (DFIRMs) by identifying local mapping needs
<b>Jurisdiction:</b>	City of Spivey
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	Flood
<b>Issue/Background:</b>	The City of Spivey does not have a current effective Flood Insurance Rate Map or a map of identified flooding areas.
<b>Plan for Implementation and Administration:</b>	Assist the study contractor in preparing Digital Flood Insurance Rate Maps (DFIRMs) for Kingman County by identifying local mapping needs and participating in planning and review process. Provide topographic data, contour data, other GIS data, as needed.
<b>Lead Agency:</b>	Local Floodplain Manager; Land Use Departments; GIS Staff
<b>Funding Description:</b>	Staff time; FEMA
<b>Total Cost:</b>	Staff time (5 staff @ \$75 * 24 hours = \$9,000)
<b>Benefits (Losses Avoided):</b>	Updated and more accurate floodplain maps; reduced risk of property damage
<b>Completion Date:</b>	Within 5 years

<b>Spivey-2 Floodplain Ordinance</b>	
<b>Project Description:</b>	Strengthen floodplain ordinance, as appropriate, following DFIRM development
<b>Jurisdiction:</b>	City of Spivey
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	Flood
<b>Issue/Background:</b>	The FEMA map modernization process may identify new areas of flooding, flood elevations, etc. within the City of Spivey.
<b>Plan for Implementation and Administration:</b>	Update current floodplain ordinance to reflect updated Flood Insurance Rate Maps.
<b>Lead Agency:</b>	Local Floodplain Manager
<b>Funding Description:</b>	Staff time
<b>Total Cost:</b>	Staff time (1 staff @ \$75 * 8 hours = \$600)
<b>Benefits (Losses Avoided):</b>	Life-safety; reduced risk of property damage
<b>Completion Date:</b>	Within 5 years

<b>Spivey-3 Hazard Mitigation Plan Update</b>	
<b>Project Description:</b>	Participate in annual review of status of Hazard Mitigation Strategy and 5-year plan update
<b>Jurisdiction:</b>	City of Spivey
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	All Hazards
<b>Issue/Background:</b>	The Hazard Mitigation Plan is required to be monitored, evaluated, and updated every five years (See Section 5).
<b>Plan for Implementation and Administration:</b>	The Hazard Mitigation Planning Committee shall meet annually to review status of Hazard Mitigation Strategy and individual action items. The annual review will assist in identifying success and needs for implementation.
<b>Lead Agency:</b>	The Kingman County emergency manager is responsible for initiating these plan reviews.
<b>Funding Description:</b>	Existing budget
<b>Total Cost:</b>	Staff time (20 * \$75 @ 4 hours = \$6,000)
<b>Benefits (Losses Avoided):</b>	Reduction in future hazard related losses of life and property.
<b>Completion Date:</b>	Annually

## City of Zenda

Zenda-1	Storm Sirens
<b>Project Description:</b>	Provide storm sirens for the City of Zenda
<b>Jurisdiction:</b>	City of Zenda
<b>Local Prioritization:</b>	High
<b>Primary Hazard:</b>	All hazards
<b>Issue/Background:</b>	The City of Zenda does not currently have a storm siren system.
<b>Plan for Implementation and Administration:</b>	Emergency Managers shall prepare grant applications for the purchase and installation of a storm siren within the City of Zenda.
<b>Lead Agency:</b>	Emergency Management
<b>Funding Description:</b>	Staff time; existing budget; Homeland Security Grant; NWS Grants
<b>Total Cost:</b>	Staff time (10 staff @ \$75 * 8 hours = \$6,000); purchase cost of storm siren
<b>Benefits (Losses Avoided):</b>	Improved warning, increased lead time on warning systems and mitigation efforts, reduced losses, life-safety
<b>Completion Date:</b>	Within 3 years

Zenda-2	FIRM Update
<b>Project Description:</b>	Assist the study contractor in preparing revised Digital Flood Insurance Rate Maps (DFIRMs) by identifying local mapping needs
<b>Jurisdiction:</b>	City of Zenda
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	Flood
<b>Issue/Background:</b>	The City of Zenda does not have a current effective Flood Insurance Rate Map or a map of identified flooding areas.
<b>Plan for Implementation and Administration:</b>	Assist the study contractor in preparing Digital Flood Insurance Rate Maps (DFIRMs) for Kingman County by identifying local mapping needs and participating in planning and review process. Provide topographic data, contour data, other GIS data, as needed.
<b>Lead Agency:</b>	Local Floodplain Manager; Land Use Departments; GIS Staff
<b>Funding Description:</b>	Staff time; FEMA
<b>Total Cost:</b>	Staff time (5 staff @ \$75 * 24 hours = \$9,000)
<b>Benefits (Losses Avoided):</b>	Updated and more accurate floodplain maps; reduced risk of property damage
<b>Completion Date:</b>	Within 5 years

Zenda-3	Floodplain Ordinance
<b>Project Description:</b>	Strengthen floodplain ordinance, as appropriate, following DFIRM development
<b>Jurisdiction:</b>	City of Zenda
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	Flood
<b>Issue/Background:</b>	The FEMA map modernization process may identify new areas of flooding, flood elevations, etc. within the City of Zenda.
<b>Plan for Implementation and Administration:</b>	Update current floodplain ordinance to reflect updated Flood Insurance Rate Maps.
<b>Lead Agency:</b>	Local Floodplain Manager
<b>Funding Description:</b>	Staff time
<b>Total Cost:</b>	Staff time (1 staff @ \$75 * 8 hours = \$600)
<b>Benefits (Losses Avoided):</b>	Life-safety; reduced risk of property damage
<b>Completion Date:</b>	Within 5 years

<b>Zenda-4 Hazard Mitigation Plan Update</b>	
<b>Project Description:</b>	Participate in annual review of status of Hazard Mitigation Strategy and 5-year plan update
<b>Jurisdiction:</b>	City of Zenda
<b>Local Prioritization:</b>	Medium
<b>Primary Hazard:</b>	All Hazards
<b>Issue/Background:</b>	The Hazard Mitigation Plan is required to be monitored, evaluated, and updated every five years (See Section 5).
<b>Plan for Implementation and Administration:</b>	The Hazard Mitigation Planning Committee shall meet annually to review status of Hazard Mitigation Strategy and individual action items. The annual review will assist in identifying success and needs for implementation.
<b>Lead Agency:</b>	The Kingman County emergency manager is responsible for initiating these plan reviews.
<b>Funding Description:</b>	Existing budget
<b>Total Cost:</b>	Staff time (20 * \$75 @ 4 hours = \$6,000)
<b>Benefits (Losses Avoided):</b>	Reduction in future hazard related losses of life and property.
<b>Completion Date:</b>	Annually