



4 MITIGATION STRATEGY

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 general goal statements and objectives to guide the jurisdictions in efforts to lessen disaster impacts as well as specific mitigation actions that can be put in place to directly reduce vulnerability to hazards and losses. The following definitions are based upon those found in FEMA publication 386-3, *Developing a 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

44 CFR Requirement 201.6(c)(3)(i): [The hazard mitigation strategy shall include a] description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

The HMPC developed goals to provide direction for reducing hazard-related losses in Sumner County. These were based upon the results of the risk assessment and a review of mitigation goals from other state and local plans, specifically, the Kansas Hazard Mitigation Plan, 2007 and the Sumner County Basic Operations Plan. This review was to ensure that this plan's mitigation strategy was integrated or aligned with existing plans and policies.

Through a brainstorming process at their second meeting, the HMPC came to a consensus on three main goals. The Goals and objectives of the mitigation strategy are listed below, in no particular order:

- **Goal #1:** Increase capabilities and develop strategies to assure that vulnerable populations, buildings, and critical facilities within Sumner County are protected from hazards and reduce the damaging effects of those hazards.
 - Reduce property losses due to flood, wildfire, winter storms, and other hazards.
 - Increase the level of protection for critical facilities, infrastructure, and utility systems.

- Assure that vulnerable populations such as the elderly, homeless, low income or those with Limited English Proficiency are included in mitigation and response planning.
- Goal #2: Improve the level of responder, government, business, and citizen awareness and preparedness for disaster.
 - Strengthen outreach and partnerships with the private sector, nonprofit organizations and the public.
 - Improve public understanding of hazards and risk by providing public awareness, preparedness, and mitigation information through various channels of communication.
 - Educate property and business owners on affordable mitigation and preparedness measures that can be taken to reduce property loss.
- Goal #3: Promote a policy framework that assures effective hazard mitigation programs are implemented and promoted.
 - Assure continued participation in the National Flood Insurance Program, including the Community Rating System (CRS) Program.
 - Promote the adoption of ordinances that reduce damages from natural hazards.

4.2 Identification and Analysis of Mitigation Actions

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.

During the second meeting of the HMPC, the results of the risk assessment were provided to the HMPC members for review. After reviewing the results of the risk assessment, the committee discussed the key issues that were identified for specific hazards. In addition, AMEC provided the HMPC with information on the Kansas division of Emergency Management HMGP funding priorities and the types of mitigation actions generally recognized by FEMA. A handout was provided with the following types of mitigation actions, which originated from the National Flood Insurance Program’s Community Rating System, as well as definitions and examples for each type of action:

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

Committee members engaged in discussion regarding the types of mitigation actions or projects that could be implemented in the planning area. Consideration was given to the identified key issues and the anticipated success of each project type. This type of group discussion allowed the committee as a whole to understand the broad priorities and discussion of the types of projects most beneficial to all jurisdictions within Sumner County. After meeting 2, coordination with HMPC members continued to fully develop the mitigation strategy. Appendix C contains a comprehensive list of the types of actions discussed that resulted in the final mitigation strategy for this mitigation plan.

4.3 Implementation of Mitigation Actions

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.

Projects were discussed within the context of the STAPLEE criteria and the likelihood of success/failure for each action. STAPLEE is a tool used to assess the costs and benefits, and overall feasibility of mitigation actions. STAPLEE stands for the following:

- **Social:** Will the action be acceptable to the community? Could it have an unfair effect on a particular segment of the population?
- **Technical:** Is the action technically feasible? Are there secondary impacts? Does it offer a long-term solution?
- **Aministrative:** Are there adequate staffing, funding, and maintenance capabilities to implement the project?
- **Political:** Will there be adequate political and public support for the project?
- **Legal:** Does your jurisdiction have the legal authority to implement the action?
- **Economic:** Is the action cost-beneficial? Is there funding available? Will the action contribute to the local economy?
- **Environmental:** Will there be negative environmental consequences from the action? Does it comply with environmental regulations? Is it consistent with community environmental goals?

Throughout the discussion of the types of projects that the committee would include in the mitigation plan, emphasis was placed on the importance of a benefit-cost analysis in determining project priority. 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 Kansas Hazard Mitigation Plan. Due to many variables that must be examined during project development, the benefit/cost review at the planning stage, will primarily consist of a qualitative analysis. For each action, the jurisdictions included a narrative describing the types of benefits that could be realized with implementation of the action. Where possible, the cost was estimated as closely as possible with further refinement to occur as project development occurs. Cost-effectiveness will be considered in additional detail when seeking FEMA mitigation grant funding for eligible projects identified in this plan. At that time, additional information will be researched to provide for a quantitative benefit-cost analysis.

After the group brainstorming session, individual jurisdictions were instructed to coordinate meetings with his or her jurisdictional planning team (where available) to discuss mitigation actions and to complete the mitigation action worksheets and STAPLEE Worksheets for each

action that they wanted to include in the plan. Committee members were instructed to return completed action worksheets to AMEC.

It was decided that each individual jurisdiction should separately prioritize the actions they chose to include in the plan. This decision was made to avoid “competition” among jurisdictions in prioritizing actions. Each jurisdiction used the STAPLEE worksheet and scoring system to assist in developing the priority level for each action. All actions submitted to the plan are indicated with a high, medium, or low priority level.

Table 4.1 summarize the mitigation actions that the participating jurisdictions selected to submit to the plan, including the priority level, the STAPLEE score, plan goals addressed, and the hazards addressed.. The mitigation action implementation worksheets follow the action table in the same order they are presented in the summary table.

Table 4.1. Mitigation Action Matrix

Action ID	Action	Priority	STAPLEE Score	Goals	Hazards Addressed
Sumner County and Multi-jurisdictional Actions					
SU-1	Acquire and install permanent back-up power generator for Sumner County EOC	H	43	1,2	Extreme Temperatures, Flood, Hailstorm, Lightning, Tornado, Utility /Infrastructure Failure, Windstorm, Winter Storm
SU-2	Enforce Floodplain Ordinance/Promote NFIP	M	39	3	Flood
Multi-1	Acquire and install outdoor warning sirens throughout the entire county, both incorporated and unincorporated	M	37	1	Tornado, Windstorm
Multi-2	Countywide Drainage Survey/Implementation/Maintenance Plan	H	36	1	Dam and Levee Failure, flood, Soil Erosion and Dust
Multi-3	Floodprone Property Buyout Program	M	34	1	Flood
Multi-4	Provide homeowner education on wildfire mitigation in wildland-urban interface	M	34	1,2	Wildfire
Multi-5	Reduce hazardous fuels in prioritized wildfire risk areas	M	35	1	Wildfire
Multi-6	Increase public and fire department training on wildland urban interface fires.	M	32	1,2	Wildfire
City of Argonia					
Argonia-1	Acquire outdoor tornado warning sirens for Argonia and rural area	H	37	1	Tornado, Windstorm
Argonia-2	Develop and implement a local disaster training plan.	H	37	1,2	All Hazards
Argonia-3	Enforce Floodplain Ordinance/Promote NFIP	H	35	3	Flood
Belle Plaine					
Belle Plaine-1	Acquire and install a permanently mounted emergency propane generator for the water well which supplies water to the city water tower	H	47	1	Extreme Temperatures, Flood, Hailstorm, Lightning, Tornado, Utility /Infrastructure Failure, Windstorm, Winter Storm
Belle Plaine-2	Create and construct a multi-purpose safe facility with kitchen services and generator	H	39	1	Tornado, Windstorm
Belle Plaine-3	Enforce Floodplain Ordinance/Promote NFIP	H	35	3	Flood

Action ID	Action	Priority	STAPLEE Score	Goals	Hazards Addressed
Caldwell					
Caldwell-1	Design and construct a saferoom at Friendship Village	H	40	1	Tornado, Windstorm
Caldwell-2	Community Saferoom	H	40	1	Tornado, Windstorm
Conway Springs					
Conway Springs-1	Construct a saferoom to provide the community with a safe and accessible shelter	H	38	1	Tornado, Windstorm
Geuda Springs					
Geuda Springs-1	Continued enforcement of floodplain management and promote NFIP	H	40	3	Flood
Mulvane					
Mulvane-1	Clean Silt out of Styx Creek drainage Canal	H	42	1	Flood, Soil Erosion and Dust
Mulvane-2	Enforce Floodplain Ordinance/Promote NFIP	M	34	3	Flood
Oxford					
Oxford-1	Design/Construct a tornado saferoom in Park	H	38	1	Tornado, Windstorm
South Haven					
South Haven-1	Upgrade Outdoor Warning Sirens	H	42	1	Tornado, Windstorm
South Haven-2	Acquire a permanent back-up generator for the north water well	H	34	1	Extreme Temperatures, Flood, Hailstorm, Lightning, Tornado, Utility /Infrastructure Failure, Windstorm, Winter Storm
South Haven-3	Enforce Floodplain Ordinance/Promote NFIP	M	39	3	Flood
South Haven-4	Provide adequate and accessible tornado saferoom(s) for citizens	H	37	1	Tornado, Windstorm
Wellington					
Wellington-1	Enforce Floodplain Ordinance/Promote NFIP	M	29	3	Flood
Wellington-2	Alternative method for sounding tornado sirens for the City of Wellington	H	21	1	Tornado, Windstorm
USD 356 Conway Springs Schools					
USD 356-1	Provide adequate and accessible tornado saferooms for students, staff and community	H	35	1	Tornado, Windstorm

Action ID	Action	Priority	STAPLEE Score	Goals	Hazards Addressed
	residents				
USD 357 Belle Plaine Schools					
USD 357-1	Provide adequate and accessible tornado saferooms for students, faculty and staff of USD 357. Provide adequate and accessible tornado saferooms for local residents.	H	39	1	Tornado, Windstorm
USD 359 Argonia Schools					
USD 359-1	Provide adequate and accessible tornado saferooms for students, faculty and staff.	H	35	1	Tornado, Windstorm
USD 509 South Haven Schools					
USD 509-1	Provide adequate and accessible tornado saferooms for students, faculty, and staff.	M	39	1	Tornado, Windstorm

The tables that follow provide additional details for each mitigation action identified by the planning committee. This information serves as the action plan describing how the actions will be prioritized, implemented, and administered by the local jurisdiction. The section on benefits or losses avoided if the action is implemented is primarily a qualitative review at this time. A more detailed and quantitative benefit-cost analysis was discussed and will be performed prior to implementation of actions when additional detailed project cost information has been developed.

Jurisdiction/City: Sumner County	Local Priority (high, medium, low)	High	Action ID: SU-1
Action Title:	Acquire and install permanent back-up power generator for Sumner County EOC.		
Issue/Background: Why is this action needed? What is the problem?	The county Emergency Operations Center needs to be fully functional during disaster response and recovery efforts. This facility provides disaster management at the county level and must maintain continuity of operations to guarantee necessary assistance to command staff in the field.		
Ideas for Implementation: How can the problem be solved?	Purchase and set a permanent back-up power generator to be connected to the EOC facility power panel to secure "always-on" electric power for the EOC building.		
Responsible Office: Which department would implement/track?	Sumner County Emergency Management Agency		
Partners: Who would help?	Kansas Division of Emergency Management, FEMA		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Hazard Mitigation Grant funds, County General funds.		
Cost Estimate:	\$ 30,000 to \$ 40,000		
Benefits: (Losses Avoided)	Will allow administrators to continue operations of recovery from a disaster within the county.		
Timeline: (How many months/years to complete?)	Approximately 60 days after securing revenue source funding.		
Completed by: (name/title)	James Fair / Director	Sumner County Emergency Management Agency	

Jurisdiction/City: Sumner County	Local Priority (high, medium, low)	Medium	Action ID: SU-2
Action Title:	Continue to participate in the National Flood Insurance Program and remain in good standing by actively managing the floodplain in accordance with currently adopted Floodplain Management Ordinance.		
Issue/Background: Why is this action needed? What is the problem?	Current ordinance dated July 2006 is currently enforced. Enforcement will continue so that floodplain is properly managed and so that flood insurance is available to citizens.		
Ideas for Implementation: How can the problem be solved?	Continue enforcement of current ordinance and update as appropriate. Issue floodplain development permits and maintain appropriate records. Promote the availability of Flood Insurance through media outlets such as internet, newspaper, and radio.		
Responsible Office: Which department would implement/track?	Sumner County Planning & Zoning Department		
Partners: Who would help?	Sumner County Emergency Management Agency		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Water Resources Board Grants, County General budget		
Cost Estimate:	N/A		
Benefits: (Losses Avoided)	Control future development in the floodplain and make flood insurance available to citizens.		
Timeline: (How many months/years to complete?)	Ongoing and continuing indefinitely		
Completed by: (name/title)	James Fair / Director	Sumner County Emergency Management	

Jurisdiction/City: Multi-jurisdictional	Local Priority (high, medium, low)	Medium	Action ID: Multi-1
Action Title:	Acquire and install outdoor warning sirens throughout the entire county, both incorporated and unincorporated areas.		
Issue/Background: Why is this action needed? What is the problem?	To lessen the loss of life during severe weather events, and to use as a warning device during hazardous materials spills for possible shelter-in-place or evacuation instructions to the public.		
Ideas for Implementation: How can the problem be solved?	Acquire outdoor warning sirens to be installed at various locations throughout the county that can be activated from remote locations.		
Responsible Office: Which department would implement/track?	Sumner County Emergency Management Agency		
Partners: Who would help?			
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Hazard Mitigation Grant funds, Community Development Block Grants, USDA Rural Development grants, County General funds.		
Cost Estimate:	\$ 500,000 to \$ 650,000		
Benefits: (Losses Avoided)	Could potentially reduce or prevent the loss of life during severe weather events.		
Timeline: (How many months/years to complete?)	Approximately 1 year after fund source approval.		
Completed by: (name/title)	James Fair/Director	Sumner County Emergency Management Agency	

Jurisdiction/City: Multi-jurisdictional	Local Priority (high, medium, low)	High	Action ID: Multi-2
Action Title:	Countywide Drainage Survey/Implementation/Maintenance Plan.		
Issue/Background: Why is this action needed? What is the problem?	To reduce the amount of or re-direct the amount of water flow from heavy rainfalls and lessen the impact of water flow on public roadways and private properties.		
Ideas for Implementation: How can the problem be solved?	Study drainage issues throughout the county and make recommendations for flood management procedures and implement an annual maintenance plan to prevent future damages and re-occurrences.		
Responsible Office: Which department would implement/track?	Sumner County Road & Bridge Department		
Partners: Who would help?	Sumner County Planning & Zoning Department Sumner County Emergency Management Agency		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Hazard Mitigation Grant program, Community Development Block Grants, USDA Rural Development grants, County General funds.		
Cost Estimate:	Unknown at this time.		
Benefits: (Losses Avoided)	Avoid future costs to repair flash flooding to public roads, culverts and ditches, and to help reduce flash flood run-off into creeks, tributaries and rivers which will reduce large-scale flooding throughout the entire county.		
Timeline: (How many months/years to complete?)	From approval of revenue source at least 8 – 10 years to be fully implemented.		
Completed by: (name/title)	James Fair / Director	Sumner County Emergency Management	

Jurisdiction/City: Multi-jurisdictional	Local Priority (high, medium, low)	Medium	Multi-3
Action Title:	Floodprone Property Buyout Program		
Issue/Background: Why is this action needed? What is the problem?	Purchase and remove structures from floodplain to prevent future damage to property and reduce loss of life risk to residents and rescuers.		
Ideas for Implementation: How can the problem be solved?	Apply for FEMA Mitigation Grant Buyout funds to purchase floodprone properties, demolish structures and return land to natural habitat.		
Responsible Office: Which department would implement/track?	Sumner County Emergency Management Agency		
Partners: Who would help?	Sumner County Planning & Zoning Department		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Hazard Mitigation Grant funds, Community Development Block Grants, County General funds.		
Cost Estimate:	Unknown at this time.		
Benefits: (Losses Avoided)	Avoid future property losses and reduce threat to resident's lives and rescuers lives.		
Timeline: (How many months/years to complete?)	Approximately one year after funding source is secured.		
Completed by: (name/title)	James Fair / Director	Sumner County Emergency Management Agency	

Jurisdiction/City: Multi-jurisdictional	Local Priority (high, medium, low)	Medium	Multi-4
Action Title:	Provide homeowner education on wildfire mitigation in wildland-urban interface		
Issue/Background: Why is this action needed? What is the problem?	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.		
Ideas for Implementation: How can the problem be solved?	Educational workshops put on for homeowners associations and/or in rural communities 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.		
Responsible Office: Which department would implement/track?	Kansas Forest Service and local Fire Departments		
Partners: Who would help?	Home owners associations, rural communities		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Kansas Forest Service and federal grants		
Cost Estimate:	Materials and presenter time per workshop is estimated to be approximately \$500.		
Benefits: (Losses Avoided)	Losses avoided would be lessening the chances for a fire to spread from vegetation (wildland fuels) to man-made (urban fuels).		
Timeline: (How many months/years to complete?)	On-going		
Completed by: (name/title)	Jason Hartman	Kansas Forest Service	

Jurisdiction/City: Multi-jurisdictional	Local Priority (high, medium, low)	Medium	Multi-5
Action Title:	Reduce hazardous fuels in prioritized wildfire risk areas		
Issue/Background: Why is this action needed? What is the problem?	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.		
Ideas for Implementation: How can the problem be solved?	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.		
Responsible Office: Which department would implement/track?	Kansas Forest Service and the Local Fire Departments		
Partners: Who would help?	Home Owners Associations and Rural Communities		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	The Kansas Forest Service will assist qualifying communities with pursuing federal WUI grant dollars for hazardous fuel reduction projects.		
Cost Estimate:	Approximately \$85/ac for hazardous fuel reduction projects.		
Benefits: (Losses Avoided)	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.		
Timeline: (How many months/years to complete?)	On-going		
Completed by: (name/title)	Jason Hartman	Kansas Forest Service	

Jurisdiction/City: Multi-jurisdictional	Local Priority (high, medium, low)	Medium	Multi-6
Action Title:	Increase public and fire dept. training on wildland urban interface fires		
Issue/Background: Why is this action needed? What is the problem?	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.		
Ideas for Implementation: How can the problem be solved?	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.		
Responsible Office: Which department would implement/track?	Kansas Forest Service		
Partners: Who would help?	Local Fire Departments, and Communities		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	The Kansas Forest Service along with its state and federal partners can assist with providing such training opportunities.		
Cost Estimate:	\$30 per student per training session		
Benefits: (Losses Avoided)	Additional training on the specific tactics and strategies to use in the WUI will increase public and emergency responder safety.		
Timeline: (How many months/years to complete?)	On-Going		
Completed by: (name/title)	Jason Hartman	Kansas Forest Service	

Jurisdiction/City: Argonia	Local Priority (high, medium, low)	High	Argonia-1
Action Title:	Acquire outdoor tornado warning sirens for the Argonia and rural area.		
Issue/Background: Why is this action needed? What is the problem?	Currently our tornado siren is 31 years old and is in need of electrical work on the control box. We would like to acquire 2 new sirens and place them at the North end of town and one at the South end of town in order to reach more people in the rural areas.		
Ideas for Implementation: How can the problem be solved?	Currently our State has submitted and been approved for the Warning Siren Project through the KDEM. We filled out a Notice of Interest and submitted the forms to Sumner County Emergency Management. If we get accepted for this program we intend to put in two new sirens with batter back ups that can warn of tornados, floods or even a hazardous spill from the rail road.		
Responsible Office: Which department would implement/track?			
Partners: Who would help?	Sumner County Emergency Management		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Capital Improvement Fund, then reimbursed by Tornado Warning System Grant		
Cost Estimate:			
Benefits: (Losses Avoided)	Protection for our citizens and more of the rural community.		
Timeline: (How many months/years to complete?)	Within one year (or less) of project approval.		
Completed by: (name/title)	Janet Etheridge	City Clerk	

Jurisdiction/City: Argonia	Local Priority (high, medium, low)	High	Action ID: Argonia-2
Action Title:	Develop and implement a local disaster training plan.		
Issue/Background: Why is this action needed? What is the problem?	Currently our city does not have a master local disaster plan, the Fire department, EMS and Police have procedures that they follow during an event, these need to be combined into one master plan that would involve several different kinds of disasters specifying what should happen and who does what tasks.		
Ideas for Implementation: How can the problem be solved?	Our Police Chief is currently meeting with EMS and Fire personnel to work on this disaster plan, she has also consulted with other small cities in our county and received copies of their disaster plan.		
Responsible Office: Which department would implement/track?	City of Argonia Police Department		
Partners: Who would help?	Sumner County Emergency Management		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Mitigation grant funds		
Cost Estimate:	TBD		
Benefits: (Losses Avoided)	Provide training to minimize the loss of life as well as additional damage to property resulting from unauthorized people entering the disaster area.		
Timeline: (How many months/years to complete?)	Ongoing		
Completed by: (name/title)	Janet Etheridge	City Clerk	

Jurisdiction/City: Argonia	Local Priority (high, medium, low)	High	Action ID: Argonia-3
Action Title:	Continue to participate in the National Flood Insurance Program and remain in good standing by actively managing the floodplain in accordance with currently adopted Floodplain Management Ordinance.		
Issue/Background: Why is this action needed? What is the problem?	Current ordinance dated 3/10/2009 is currently enforced. Enforcement will continue so that floodplain is properly managed and so that flood insurance is available to citizens.		
Ideas for Implementation: How can the problem be solved?	Continue enforcement of current ordinance and update as appropriate. Issue floodplain development permits and maintain appropriate records. Promote the availability of Flood Insurance through media outlets such as internet, newspaper, and radio.		
Responsible Office: Which department would implement/track?	City Clerk		
Partners: Who would help?	Kansas Division of Water Resources		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	General budget		
Cost Estimate:	N/A		
Benefits: (Losses Avoided)	Control future development in the floodplain and make flood insurance available to citizens.		
Timeline: (How many months/years to complete?)	Ongoing		
Completed by: (name/title)	Janet Etheridge	City Clerk	

Jurisdiction/City: City of Belle Plaine	Local Priority (high, medium, low)	High	Action ID: Belle Plaine-1
Action Title: Water Generator	Acquire and Install a permanently mounted emergency propane generator for the water well which supplies water to the city water tower during power outages.		
Issue/Background: Why is this action needed? What is the problem?	The current generator is a 1950's model, there have been several recent problems which we have discovered that there are limited/ to no replacement parts. The generator does not automatically turn on and off, so there is a concern of not supplying adequate water to the tower and overflowing the tower.		
Ideas for Implementation: How can the problem be solved?	Apply for a FEMA mitigation grant to purchase and install a propane generator at the main well and remove the existing outdated generator.		
Responsible Office: Which department would implement/track?	City of Belle Plaine Water Department		
Partners: Who would help?	Sumner County Emergency Management, Kansas Division of Emergency Management, FEMA		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Hazard Mitigation Grant Program, General and Reserve Funds.		
Cost Estimate:	18,000.00		
Benefits: (Losses Avoided)	Ensuring adequate water supply during times of power loss.		
Timeline: (How many months/years to complete?)	Immediately to one year		
Completed by: (name/title)	Gordon Fell Emergency Management City of Belle Plaine		

Jurisdiction/City: City of Belle Plaine	Local Priority (high, medium, low) High	High	Action ID: Belle Plaine-2
Action Title:	Create and construct a multi-purpose safe facility with kitchen services and generator.		
Issue/Background: Why is this action needed? What is the problem?	City of Belle Plaine does not have any FEMA safe rooms or facilities. In the event of a severe storm the local police open up two area churches and the basement at the middle school gym as shelters.		
Ideas for Implementation: How can the problem be solved?	Apply for a FEMA mitigation grant to Create and construct a multi-purpose safe facility with kitchen services and generator. This would provide the city with a safe facility for its 1800 citizens, which could serve as a storm shelter for the community, a multi-purpose facility with a kitchen for the senior meals program which provides meals to the elderly in several communities. The facility would also serve as a recreation center, which the community doesn't have.		
Responsible Office: Which department would implement/track?	City of Belle Plaine Emergency Management		
Partners: Who would help?	City Maintenance and City Zoning Administer		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Hazard Mitigation Grant Program, General Funds.		
Cost Estimate:	\$750,000.00		
Benefits: (Losses Avoided)	Provide a safe place for storm evacuation, for the citizens of the city		
Timeline: (How many months/years to complete?)	One to Three Years		
Completed by: (name/title)	Gordon Fell Emergency Management City of Belle Plaine		

Jurisdiction/City: City of Belle Plaine	Local Priority (high, medium, low)	High	Belle Plaine-3
Action Title:	Continue to participate in the National Flood Insurance Program and remain in good standing by actively managing the floodplain in accordance with currently adopted Floodplain Management Ordinance.		
Issue/Background: Why is this action needed? What is the problem?	Current ordinance is enforced. Enforcement will continue so that the floodplain is properly managed and so that flood insurance is available to citizens.		
Ideas for Implementation: How can the problem be solved?	Continue enforcement of current ordinance and update as appropriate. Issue floodplain development permits and maintain appropriate records. Promote the availability of Flood Insurance through media outlets such as internet, newspaper, and radio.		
Responsible Office: Which department would implement/track?	Sam Nelson, Zoning Administrator		
Partners: Who would help?	Kansas Division of Water Resources		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	General Funds.		
Cost Estimate:	N/A		
Benefits: (Losses Avoided)	Control future development in the floodplain and make flood insurance available to citizens.		
Timeline: (How many months/years to complete?)	On-going.		
Completed by: (name/title)	Gordon Fell Emergency Management City of Belle Plaine		

Jurisdiction/City: Caldwell	Local Priority (high, medium, low)	H	Action ID: Caldwell-1
Action Title:	Friendship Village Saferoom		
Issue/Background: Why is this action needed? What is the problem?	There is currently no saferoom available for this 12-unit apartment complex for the elderly and mildly disabled special needs population. The apartment complex is a public facility with oversight from the Caldwell Housing Authority		
Ideas for Implementation: How can the problem be solved?	Construct a saferoom on site in accordance with FEMA guidance		
Responsible Office: Which department would implement/track?	City of Caldwell		
Partners: Who would help?	Caldwell Housing Authority, Sumner County Emergency management, FEMA		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	FEMA Hazard Mitigation Assistance Grants		
Cost Estimate:	Approx \$40,000 (24 people x 5 sq. ft/person x \$120/sq. ft) + A&E fees		
Benefits: (Losses Avoided)	Life Safety for residents		
Timeline: (How many months/years to complete?)	1 year after project approval		
Completed by: (name/title)	Paul Falkenberg,	Caldwell Housing Authority	

Jurisdiction/City: City of Caldwell	Local Priority (high, medium, low)	High	Action ID: Caldwell-2
Action Title:	Community Saferoom		
Issue/Background: Why is this action needed? What is the problem?	No completely adequate tornado saferoom is available for residents that do not have adequate shelter.		
Ideas for Implementation: How can the problem be solved?	Construct new saferoom area to provide adequate sheltering in accordance with FEMA standards (per FEMA 361 guidance)		
Responsible Office: Which department would implement/track?	City of Caldwell-Administration		
Partners: Who would help?	Sumer County Emergency Management		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	FEMA Hazard Mitigation Assistance Grant		
Cost Estimate:	Approx. \$60,000.00(100 people x5 sq. ft/person x \$120/sq. ft) +25,000 A&E fees		
Benefits: (Losses Avoided)	Protection of residents		
Timeline: (How many months/years to complete?)	Within one-year (or less) of project approval.		
Completed by: (name/title)	Casie Risley City Clerk/ Administrator		

Jurisdiction/City: Conway Springs	Local Priority (high, medium, low)	High	Action ID: Conway Springs-1
Action Title:	Construct a saferoom to provide the community with a safe and accessible shelter		
Issue/Background: Why is this action needed? What is the problem?	Currently there is no tornado shelter available to the citizens of the community		
Ideas for Implementation: How can the problem be solved?	Construct a new storm shelter in accordance with FEMA standards		
Responsible Office: Which department would implement/track?	City Hall-City Clerk's Office		
Partners: Who would help?	Sumner County Emergency Management		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Grant funding-Hazard Mitigation Grant Program		
Cost Estimate:	\$200,000		
Benefits: (Losses Avoided)	Storm protection for the community with the potential to save lives.		
Timeline: (How many months/years to complete?)	Within one year or less of project approval		
Completed by: (name/title)	Kathy Barkley	City Clerk	

Jurisdiction/City: Geuda Springs	Local Priority (high, medium, low)	High	Geuda Springs-1
Action Title:	Continued enforcement of Floodplain Management Ordinance and promote NFIP		
Issue/Background: Why is this action needed? What is the problem?	Current ordinance is enforced. Enforcement will continue so that floodplain is properly managed and so that flood insurance is available to citizens.		
Ideas for Implementation: How can the problem be solved?	Continue enforcement of current ordinance and update as appropriate. Issue floodplain development permits and maintain appropriate records. Promote the availability of Flood Insurance through flyers in utility bills.		
Responsible Office: Which department would implement/track?	City of Geuda Springs.		
Partners: Who would help?	Kansas Division of Water Resources		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	General budget		
Cost Estimate:	N/A		
Benefits: (Losses Avoided)	Control future development in the floodplain and make flood insurance available to citizens.		
Timeline: (How many months/years to complete?)	Ongoing		
Completed by: (name/title)			

Jurisdiction/City: Mulvane	Local Priority (high, medium, low)	High	Action ID: Mulvane-1
Action Title:	Clean silt out of Styx Creek drainage canal.		
Issue/Background: Why is this action needed? What is the problem?	During heavy rainfall we have a flooding problem thru the center of town due to silt & trees growing up in Styx Creek drainage canal. This has occurred twice in the last four years.		
Ideas for Implementation: How can the problem be solved?	The silt and debris needs to be cleaned out and the channel re graded. This will help hold more runoff, thus slowing the flooding problem so water can get downstream and out of town faster.		
Responsible Office: Which department would implement/track?	The City of Mulvane Street Department is in charge of drainage issues.		
Partners: Who would help?	Private contractors would be needed to do the work. City engineer would plan and approve the project.		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Local funds would be used for this project; monies have been put aside for this project.		
Cost Estimate:	\$50,000		
Benefits: (Losses Avoided)	Residential, commercial & street flooding would be reduced.		
Timeline: (How many months/years to complete?)	4 to 6 months, depending on rainy weather.		
Completed by: (name/title)	Capt. Lowell Ester		

Jurisdiction/City: Mulvane	Local Priority (high, medium, low)	Medium	Action ID: Mulvane-2
Action Title:	Continue to participate in the National Flood Insurance Program and remain in good standing by actively managing the floodplain in accordance with currently adopted Floodplain Management Ordinance.		
Issue/Background: Why is this action needed? What is the problem?	Current ordinance dated October 2009 is currently enforced. Enforcement will continue so that floodplain is properly managed and so that flood insurance is available to citizens.		
Ideas for Implementation: How can the problem be solved?	Continue enforcement of current ordinance and update as appropriate. Issue floodplain development permits and maintain appropriate records. Promote the availability of Flood Insurance through media outlets such as internet, newspaper, and radio.		
Responsible Office: Which department would implement/track?	City building / zoning Inspector		
Partners: Who would help?			
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	General budget		
Cost Estimate:	N/A		
Benefits: (Losses Avoided)	Control future development in the floodplain and make flood insurance available to citizens.		
Timeline: (How many months/years to complete?)	Ongoing		
Completed by: (name/title)	Lowell Ester	Fire Captain	

Jurisdiction/City: City of Oxford	Local Priority (high, medium, low)	H	Action ID: Oxford-1
Action Title:	Tornado Saferoom in Park		
Issue/Background: Why is this action needed? What is the problem?	A hazard-related concern for the City is the vulnerability of the campers using the facilities of the Napawalla during storm season. We do not have a storm shelter that is available to those camping in the park. Currently, when a storm is approaching, we contact one of the churches to allow access to their basement. This is a major concern for the City, but funding has not been available to build a saferoom		
Ideas for Implementation: How can the problem be solved?	Construct a tornado saferoom in accordance with FEMA design standards.		
Responsible Office: Which department would implement/track?	City of Oxford		
Partners: Who would help?	Sumner County Emergency Management, FEMA		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Hazard Mitigation Assistance Grant from FEMA		
Cost Estimate:	Approx. \$54,000 (90 person occupancy)		
Benefits: (Losses Avoided)	Lives could potentially be saved if a tornado were to hit the area		
Timeline: (How many months/years to complete?)	Within 1 year of funding approval		
Completed by: (name/title)	Betty Oliver, City Clerk		

Jurisdiction/City: City of South Haven	Local Priority (high, medium, low) high	High	Action ID: South Haven-1
Action Title: Tornado Siren	Upgrade outdoor tornado warning sirens.		
Issue/Background: Why is this action needed? What is the problem?	<p>The current three city tornado sirens are almost 20 years old. Not all residents can hear the sirens from outside their homes. They are not omni-directional.</p> <p>The sirens have to be manually activated, which poses a danger for the person having to activate the sirens.</p>		
Ideas for Implementation: How can the problem be solved?	Purchase a new omni-directional siren that can be activated with a remote or by telephone to be placed on top of the city building/fire station. Siren to have a sound range of one mile in all directions so all citizens in the city limits can hear it if outside.		
Responsible Office: Which department would implement/track?	South Haven City Office, Mayor or Clerk		
Partners: Who would help?	Sumner County Emergency Management		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Grant Funding (Hazard Mitigation Grant Program), general funds, donations		
Cost Estimate:	\$20,000 to \$25,000		
Benefits: (Losses Avoided)	Protection of citizens. Potential to save lives.		
Timeline: (How many months/years to complete?)	3 –6 months		
Completed by: (name/title)	Amy Brown	City Clerk	

Jurisdiction/City: City of South Haven	Local Priority (high, medium, low)	High	Action ID: South Haven-2
Action Title: Water well generator	Acquire a permanent back-up generator for the north water well.		
Issue/Background: Why is this action needed? What is the problem?	The city has two water wells that alternate. The south well has a propane powered generator that will come on if the electricity goes out. The north well does not have a generator. If there was a natural disaster or a lightning strike to the south well generator, there would be no available power source to provide the city with water from the north well.		
Ideas for Implementation: How can the problem be solved?	Purchase a new Onan 3-phase propane powered generator similar in design and capabilities to the south well generator for the north well.		
Responsible Office: Which department would implement/track?	South Haven City Office, Mayor or Clerk		
Partners: Who would help?	N/A		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Grant Funding - possible sources of grant funding: Hazard Mitigation Grant Program, USDA Rural Development grant funds, CDBG grant funds general funds, donations		
Cost Estimate:	\$15,000 to \$25,000		
Benefits: (Losses Avoided)	Protection of citizens. Ensure ability to supply water during natural and man-made disasters. .		
Timeline: (How many months/years to complete?)	1 –2 years		
Completed by: (name/title)	Amy Brown	City Clerk	

Jurisdiction/City: City of South Haven	Local Priority (high, medium, low) Medium	Action ID: South Haven-3
Action Title: NFIP	Continue to participate in the National Flood Insurance Program and remain in good standing by actively managing the floodplain in accordance with currently adopted Floodplain Management Ordinance.	
Issue/Background: Why is this action needed? What is the problem?	Current ordinance dated 11-2-2009 is currently enforced. Enforcement will continue so that floodplain is properly managed and so that flood insurance is available to citizens.	
Ideas for Implementation: How can the problem be solved?	Continue enforcement of current ordinance and update as appropriate. Issue floodplain development permits and maintain appropriate records. Promote the availability of Flood Insurance through media outlets such as internet, newspaper, and radio.	
Responsible Office: Which department would implement/track?	South Haven City Office, Mayor or Clerk	
Partners: Who would help?	N/A	
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	General budget	
Cost Estimate:	N/A	
Benefits: (Losses Avoided)	Control future development in the floodplain and make flood insurance available to citizens.	
Timeline: (How many months/years to complete?)	Ongoing	
Completed by: (name/title)	Amy Brown	City Clerk

Jurisdiction/City: City of South Haven	Local Priority (high, medium, low)	High	Action ID: South Haven-4
Action Title: Safe Room	Provide adequate & accessible tornado saferoom(s) for citizens.		
Issue/Background: Why is this action needed? What is the problem?	No completely adequate tornado saferooms are currently available for citizens without basements or shelters of their own large enough that have the capacity to house the majority of the town.		
Ideas for Implementation: How can the problem be solved?	Acquire ownership of the vacant nursing home building in town. This structure has a large basement. Construct new saferoom areas to provide adequate sheltering in accordance with FEMA standards (per FEMA 361 guidance) for the basement of this structure with easy access when sheltering is required.		
Responsible Office: Which department would implement/track?	South Haven City Office, Mayor or Clerk		
Partners: Who would help?	Sumer County Emergency Management		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Grant funding (Hazard Mitigation Grant Program), general funds, donations		
Cost Estimate:	\$50,000 to \$75,000		
Benefits: (Losses Avoided)	Protection of citizens. Potential to save lives.		
Timeline: (How many months/years to complete?)	Within one-year (or less) of project approval.		
Completed by: (name/title)	Amy Brown	City Clerk	

Jurisdiction/City: Wellington	Local Priority (high, medium, low)	Medium	Action ID: Wellington-1
Action Title: Safe Room	Enforce Floodplain Ordinance/Promote NFIP		
Issue/Background: Why is this action needed? What is the problem?	The current ordinance dated October 6 th , 2009 is currently enforced. Enforcement will continue so that the floodplain is properly managed and so that flood insurance is available to citizens		
Ideas for Implementation: How can the problem be solved?	Continue enforcement of current ordinance and update as appropriate. Issue floodplain development permits and maintain appropriate records. Promote the availability of Flood Insurance through media outlets such as internet, newspaper, and radio		
Responsible Office: Which department would implement/track?	Engineering Office		
Partners: Who would help?	Kansas Division of Water Resources		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	General budget		
Cost Estimate:	N/A		
Benefits: (Losses Avoided)	Control future development in the floodplain and make flood insurance available to citizens		
Timeline: (How many months/years to complete?)	Ongoing		
Completed by: (name/title)	Tim Hay	Fire Chief	

Jurisdiction/City: Wellington	Local Priority (high, medium, low)	Medium	Action ID: Wellington-2
Action Title: Safe Room	Alternative method for sounding tornado sirens for the City of Wellington		
Issue/Background: Why is this action needed? What is the problem?	<p>Presently the sirens are either activated by the police department Monday through Friday 8-5, or by the Fire Chief or shift officer via a portable device which is plugged into the city radio.</p> <p>The problem is if the fire department is on other incidents, they may not be able to return to the station for the siren activation box. The police department has no one in the office at night, on holidays, or weekends to activate the sirens.</p>		
Ideas for Implementation: How can the problem be solved?	Have County dispatch activate the sirens. They are a 24/7 staffed agency		
Responsible Office: Which department would implement/track?	City of Wellington Fire Department and County 911 Dispatch		
Partners: Who would help?	A decision to be made by both city management and the County Commission.		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	General budget		
Cost Estimate:	\$500.00		
Benefits: (Losses Avoided)	Potential lives saved		
Timeline: (How many months/years to complete?)	1 year		
Completed by: (name/title)	Tim Hay	Fire Chief	

Jurisdiction/City: USD 356-Conway Springs Schools	Local Priority	High	Action ID: USD 356-1
Action Title:	Provide adequate and accessible tornado saferooms for students, staff and community residents.		
Issue/Background: Why is this action needed? What is the problem?	No completely adequate tornado saferooms are currently available for students and staff. In the past, school facilities have been used for residents of our manor when a tornado warning was issued. Our current facilities are lacking for this sort of event.		
Ideas for Implementation: How can the problem be solved?	Construct new saferoom areas to provide adequate sheltering in accordance with FEMA standards (per FEMA 361 guidance) for each school, and in some cases, community residents, with easy access when sheltering is required.		
Responsible Office: Which department would implement/track?	Superintendent's Office		
Partners: Who would help?	Sumner County Emergency Management		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Grant funding (Hazard Mitigation Grant Program)		
Cost Estimate:	\$150,000		
Benefits: (Losses Avoided)	Protection of students, Staff and community members. A strong potential to save lives.		
Timeline: (How many months/years to complete?)	Within one year of project approval.		
Completed by: (name/title)	Ron Ronnau Principal		

Jurisdiction/City: USD 357 Belle Plaine Schools	Local Priority (high, medium, low)	High	USD 357-1
Action Title:	Provide adequate & accessible tornado saferooms for students, faculty and staff of USD 357. Provide adequate & accessible tornado saferooms for local residents.		
Issue/Background: Why is this action needed? What is the problem?	No completely adequate tornado saferooms are currently available for students, faculty and staff. Citizens of Belle Plaine will also use the saferoom for shelter. There are many area residents who do not have adequate shelter in their homes.		
Ideas for Implementation: How can the problem be solved?	Construct saferoom areas to provide adequate sheltering in accordance with FEMA standards (per FEMA 361 guidance) for each school with easy access when sheltering is required. Provide access for local citizens in saferooms.		
Responsible Office: Which department would implement/track?	USD 357 District Office and Board of Education		
Partners: Who would help?	USD #357 Board of Education Belle Plaine City Council Sumner County Emergency Management		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Grant funding (Hazard Mitigation Grant Program)		
Cost Estimate:	(\$525,000.00) \$500,000.00 to construct a 4000 sq. ft. saferoom. \$25,000.00 to design the saferoom.		
Benefits: (Losses Avoided)	Protection of students, faculty and staff of USD 357. Protection of local residents. Potential to save lives.		
Timeline: (How many months/years to complete?)	Within one-year (or less) of project approval.		
Completed by: (name/title)	Monte Stewart Principal, Belle Plaine High School		

Jurisdiction/City: USD 359 Argonia Schools	Local Priority	High	Action ID: USD 359-1
Action Title:	Provide adequate & accessible tornado saferooms for students, faculty and staff.		
Issue/Background: Why is this action needed? What is the problem?	No completely adequate tornado saferooms are currently available for students, faculty and staff.		
Ideas for Implementation: How can the problem be solved?	Construct new saferoom areas to provide adequate sheltering in accordance with FEMA standards (per FEMA 361 guidance) for each school with easy access when sheltering is required.		
Responsible Office: Which department would implement/track?	USD 359 Argonia Public Schools		
Partners: Who would help?	Sumer County Emergency Management		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Grant funding (Hazard Mitigation Grant Program)		
Cost Estimate:	Approx. \$109,000 per saferoom		
Benefits: (Losses Avoided)	Protection of students, faculty and staff. Potential to save lives.		
Timeline: (How many months/years to complete?)	Within one-year (or less) of project approval.		
Completed by: (name/title)	Julie Dolley Superintendent of Schools		

Jurisdiction/City: USD 509 South Haven Schools	Local Priority	Medium	Action ID: USD 509-1
Action Title:	Provide adequate & accessible tornado saferooms for students, faculty and staff.		
Issue/Background: Why is this action needed? What is the problem?	No completely adequate tornado saferooms are currently available for students, faculty and staff. Do not have proper ADA access to present storm shelter.		
Ideas for Implementation: How can the problem be solved?	Construct new saferoom areas to provide adequate sheltering in accordance with FEMA standards (per FEMA 361 guidance) for all students, faculty and staff.		
Responsible Office: Which department would implement/track?	USD 509		
Partners: Who would help?	Sumer County Emergency Management		
Potential Funding Source: (Grants-specific if known, local funds, combination, etc.)	Grant funding (Hazard Mitigation Grant Program)		
Cost Estimate:	\$200,000		
Benefits: (Losses Avoided)	Protection of students, faculty and staff. Potential to save lives.		
Timeline: (How many months/years to complete?)	Within two years of project approval.		
Completed by: (name/title)	John Showman Superintendent, USD 509		