

6.0 Mitigation Strategy

6.1 – Introduction

As part of this planning effort, Kansas Region I and its participating jurisdictions worked to minimize the risk of future impacts from identified hazards to all citizens. In an attempt to shape future regulations, ordinances and policy decisions, the MPC reviewed and developed a hazard mitigation strategy. This comprehensive strategy includes:

- The consistent review and revision, as necessary, of obtainable goals and objectives
- The consistent review, revision, and development of a comprehensive list of potential hazard mitigation actions

The development of a robust mitigation strategy allows for:

- The ability to effectively direct limited resources for maximum benefit
- The ability to prioritize identified hazard mitigation projects to maximize positive outcomes
- The increase in public and private level participation in hazard mitigation through transparency and awareness
- The potential direction of future policy decisions through awareness and education
- The achievement of the ultimate goal of a safer Region I for all our citizens

Considering the factors listed above, the MPC continues to implement the following mitigation strategy:

- **Implement** the recommendations of this plan.
- **Utilize** existing regulations, policies, programs, procedures, and plans already in place.
- **Share** information on Funding opportunities.
- **Communicate** the information contained in this plan so all jurisdictions and citizens have a clearer understanding of the hazards facing the region and what can be done to mitigate their impacts.
- **Publicize** the success stories that have been achieved through the region's ongoing mitigation efforts.

6.2 – Emergency Management Accreditation Program Integration

As per requirements, in identifying and reviewing mitigation actions the following activities recommended by the EMAP were considered:

- The use of applicable building construction standards
- Hazard avoidance through appropriate land-use practices
- Relocation, retrofitting, or removal of structures at risk
- Removal or elimination of the hazard
- Reduction or limitation of the amount or size of the hazard
- Segregation of the hazard from that which is to be protected
- Modification of the basic characteristics of the hazard
- Control of the rate of release of the hazard
- Provision of protective systems or equipment for both cyber and physical risks





- Establishment of hazard warning and communication procedures
- Redundancy or duplication of essential personnel, critical systems, equipment, and information materials.

6.3 – Problem Statements

Based on the regionally identified hazards, problem statements have been developed to detail identified major concerns that can potentially be addressed through proposed mitigation actions. Problems statements were developed using the following inputs:

- Identify a key point of concern
- Is the problem getting worse, better, or staying the same?
- What are the identified or potential impacts?

The following table present regional problem statements to be utilized in informing the review, modification, and development of hazard mitigation actions.

Table 6.1: Kansas Region I Problem Statements

Identified Hazard	Problem Statement
Tornado/Windstorm	The number of community shelters is inadequate to protect all populations, especially in smaller communities

County specific problem statements were generated through discussions with participating jurisdictions within that county, to be utilized in informing the review, modification and development of hazard mitigation actions. Additionally, problem statements from the public survey are incorporated to provide a community wide view. Problems statements were developed using the following inputs:

- Location
- Identified hazard
- Key point of concern

The following table present problem statements for each county

Table 6.2: Kansas Region I Community Problem Statements

Jurisdiction	Identified Hazard	Problem Statement
Chase County	All Hazards	Areas of county are underserved by warning sirens.
Chase County	Utility Failure	Tree damage and downed limbs may cause loss of utilities.
Chase County	Utility Failure	County does not have an adequate number of generators for critical facilities.
Geary County	All Hazards	Public outreach initiatives need to be expanded concerning hazard mitigation.
Geary County	Wildfire	Equipment shortfalls may hamper fire response efforts.
Lyon County	Flood	Repeat flood areas are of concern to the county.
Lyon County	Wildfire	Mapping of wildfire areas in the county needs to be expanded.





Table 6.2: Kansas Region I Community Problem Statements

Jurisdiction	Identified Hazard	Problem Statement
Morris County	All Hazards	Public outreach initiatives need to be expanded concerning hazard mitigation.
Pottawatomie County	All Hazards	Public outreach initiatives need to be expanded concerning hazard mitigation.
Pottawatomie County	Utility Failure	County does not have an adequate number of generators for critical facilities.
Pottawatomie County	All Hazards	Areas of county are underserved by warning sirens.
Riley County	All Hazards	Public outreach initiatives need to be expanded concerning hazard mitigation.
Riley County	Flood	Repeat flood areas are of concern to the county.
Wabaunsee County	All Hazards	County does not have an adequate number of generators for critical facilities.
Wabaunsee County	All Hazards	Public outreach initiatives need to be expanded concerning hazard mitigation.

6.4 – Identification of Goals

44 CFR 201.6 (c)(3)(i) A description of mitigation goals to reduce or avoid long-term vulnerabilities to the identified hazards.

Through thorough discussions at stakeholder meetings, the MPC determined that the four previously identified primary hazard mitigation goals remained relevant and applicable. This was because the priorities of Kansas Region I in relation to hazard mitigation planning have not changed during the five-year planning cycle. These goals were reviewed through a well-established consideration process, instituted by the MPC during previous plan updates, which consisted of:

- A review of previously identified hazard mitigation goals
- A review of demographic and built environment data
- A review of identified hazards, hazard events, and vulnerabilities
- A review all identified hazard mitigation actions

The following goals represent the Kansas Region I vision for hazard mitigation and disaster resilience.

- **Goal 1:** Reduce or eliminate risk to the people and property of Kansas Region I from the impacts of the identified hazards in this plan.
- **Goal 2:** Strive to protect all vulnerable populations, structures, and critical facilities in Kansas Region I from the impacts of the identified hazards.
- **Goal 3:** Improve public outreach initiatives to include education, awareness and partnerships with all entities in order to enhance understanding of the risk Kansas Region I faces due to the impacts of the identified hazards.





- **Goal 4:** Enhance communication and coordination among all agencies and between agencies and the public.

6.5 – Completed Mitigation Actions

Sine the completion of the previous HMP, each jurisdiction has been tracking the completion status of all identified hazard mitigation actions. Each of the following completed actions should be viewed as a testament to the effectiveness of the HMP and a positive step in creating safer and more resilient communities.

Table 6.3: Region I Participating Jurisdictions Completed Hazard Mitigation Actions

Jurisdiction	Action Description
	None

Kansas Region I remains committed to investigating and obtaining all available grant funding for the completion of hazard mitigation projects.

6.6 – Review and Addition of Mitigation Actions

For this plan update, members of the MPC and participating jurisdictions were asked to complete a thorough review of all not completed mitigation actions. Additionally, MPC members and participating jurisdictions were provided with the opportunity to identify and incorporate newly identified actions based on:

- Hazard events that have occurred since the last plan revision
- Updated risk assessments
- Identified goals and objectives
- Changing local capabilities
- New vulnerabilities.

In identifying new, or reviewing existing mitigation actions, the following general categories were considered:

Local Plans and Regulations: Actions that influence the way land and buildings are developed or constructed. Actions may include:

- Revision or institution planning and zoning ordinances
- Revision or institution of building codes
- Open space preservation
- Revision or institution floodplain regulations
- Revision or institution stormwater management regulations
- Drainage system maintenance
- Requirements for riverine setbacks





Structure and Infrastructure Projects: Actions that involve the modification of existing structures to protect, or remove from, a hazard or hazard area., such as:

- Acquisition of hazard prone properties
- Relocation of hazard prone properties
- Revision or institution of building elevation requirements
- Critical facilities protection
- Installation or retrofitting of community safe rooms
- Requiring insurance
- Installation or update of warning systems

Natural Systems Protection: Actions that minimize hazard losses to natural systems. Actions may include:

- Mandatory floodplain area protection
- Revision or institution of comprehensive watershed management programs
- Requirements for riparian buffers
- Requirements for forest and shrub management
- Revision or institution of erosion and sediment control
- Wetland preservation and restoration
- Slope stabilization programs

Education and Awareness Programs: Actions to inform and educate about potential hazards and actions to mitigate against them. Actions may include:

- Educational outreach programs
- Speaker and/ or demonstration events
- Notifying citizens on where to get information
- School educational and event programs

Each action was reviewed using the following metrics, asking if it was:

- **Specific** – The action addresses a hazard or need
- **Measurable** – Achievement or progress can be measured
- **Attainable** – Accepted by those responsible for achieving it
- **Relevant** – Substantively addresses the problem
- **Time-bound** – Time period for achievement is clearly stated

Additionally, the MPC and each jurisdiction was instructed to provide a brief summary regarding the status of each of these actions using the following:

- **Not Started:** Action will provide reason(s) for lack of progress, which may include lack of Funding, differing priorities, changes in political climate, lack of technical skills, etc.





- **In progress:** Action will provide a summary, and if applicable, a of percentage work completed to date.
- **Deleted:** Actions deemed no longer viable were marked for deletion from the plan. These actions are detailed in the next section.

6.7 – Prioritization of Mitigation Actions

44 CFR 201.6 (c)(3)(iii) An action plan describing how the actions identified in paragraph (c)(3)(ii) of this section 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 benefit review of the proposed projects and their associated costs.

All participating jurisdictions worked together to review and prioritize both previously identified and newly created hazard mitigation actions, with a self-analysis method used for prioritization. This methodology takes all considerations into account to ensure that, based on capabilities, funding, public wishes, political climate, and legal framework and context, reasonable actions are determined. Major determining factors included the potential effects on the overall risk to life and property, ease of implementation, community and agency support, consistency with mitigation goals, and the availability of Funding.

Of major concern was the potential cost of each action. In general, identified actions were proposed to reduce future damages. As such, it is critical that selected and implemented actions provide a greater saving over the life of the action than the initial cost. For structural and property protection actions cost effectiveness is primarily assessed on:

- Likelihood of damages occurring
- Severity of the damages
- Potential effectiveness

For all other type of actions, including legislative actions, codes and ordinances, maintenance and education, cost effectiveness is primarily assessed on likely future benefits as these actions may not easily result in a quantifiable reduction in damage.

Based on this review, both previously identified and new action items were prioritized as per the following:

High priority:

- Actions that should be implemented as soon as possible
- Actions deemed most critical to achieve the identified mitigation goals

Medium priority:

- Actions that should be implemented in the long-term
- Actions deemed important to meet identified mitigation goals





Low priority

- Actions that should be implemented if Funding becomes available
- Actions that have lowest impact toward achieving mitigation goals

6.8 – Jurisdictional Mitigation Actions

44 CFR 201.6 (c)(3)(ii): 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.

44 CFR 201.6 (c)(3)(iv): For multi-jurisdictional plans, there must be identifiable action items specific to the jurisdiction requesting FEMA approval or credit of the plan.

The following tables identify mitigation action items for each participating jurisdiction, along with the following information:

- Hazard addressed
- Responsible party
- Overall priority
- Goal(s) addressed
- Estimated cost
- Potential Funding source
- Proposed completion timeframe
- Current status
- New actions that have been added to this plan update are identified as such.
- Actions that are in support of NFIP compliance are identified with a bold type **NFIP**





6.8.1 – Chase County Mitigation Actions

Table 6.4: Chase County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Chase County-1	Chase County is committed to continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local, State, Federal	Continuous	In progress
Chase County-2	Regularly contact owners identified in high-risk flood areas and inform them of potential availability of flood insurance, in addition to other flood protection measures. (NFIP)	Flood	Emergency Manager	High	1,2	Staff time	Local, State, Federal	Continuous	In progress
Chase County-3	Collect educational materials on individual and family preparedness and/or mitigation measures for property owners, and display at both the library and routinely visited jurisdiction offices.	All Hazards	Emergency Manager	High	3	Staff time	Local	Continuous	In progress
Chase County-4	Construct safe rooms and storm shelters in underserved areas of the county.	Tornado, Windstorm, Winter Storm	Emergency Manager	High	1,2	\$1,750,000=	Local, State, Federal	Three years	Not started, lack of funding
Chase County-5	Educate residents about driving in winter storms and handling winter-related health effects.	Winter Storm	Emergency Manager	High	3	Staff time	Local	Continuous	Not started, lack of funding
Chase County-6	Purchase and install emergency generators at Courthouse, Community Building, and all Fire Departments	Utility/ Infrastructure Failure	Emergency Manager	High	1,2	\$80,000	Local, State, Federal	Three years	Not started, lack of funding
Chase County-7	Develop and implement a wildfire prevention/education program.	Wildfire	Fire Chief, Emergency Manager	High	1,2,3	\$30 per attendee	Local	Continuous	Not started, lack of funding
Chase County-8	Identify flash-flood prone areas and implement flood reduction measures. (NFIP)	Flood	Road Supervisor	Medium	4	Staff time, per project cost	Local	Five years	Not started, lack of staff and funding
Chase County-9	Regularly host a hazards workshop in combination county events.	All Hazards	Emergency Manager	Medium	4	\$1,000 per workshop	Local	Continuous	In progress
Chase County-10	Conduct inventory/survey for the county's emergency response services to	All Hazards	Emergency Manager	Medium	1,2	Staff time, per	Local	Four years	Not started, lack of funding





Table 6.4: Chase County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
	identify any existing needs or shortfalls. Purchase identified equipment.					equipment cost			
Chase County-11	Work closely with Drainage District #2 to assist fund projects for storm water management and maintenance of water quality, flood control, and water conservation efforts. (NFIP)	Flood	Director Road and Bridge, Water District Commissioner	Medium	1,2	Dependent on severity of issue	Local, State, Federal	Five years	Not started, lack of funding
Chase County-12	Conduct security assessments for all rural water districts and water suppliers and complete all recommended upgrades.	All Hazards	Director RWD#1	Medium	1,2,4	Staff time	Local, State, Federal	Five years	Not started, lack of staff and funding
Chase County-13	Install a severe weather warning siren on the Camp Wood YMCA grounds.	All Hazards	Director Camp Woods	Medium	1,2	\$20,000	Local, State, Federal	Five years	Not started, lack of funding
Chase County-14	Design and construct a tornado safe room at Camp Wood Lodge.	Tornado, Windstorm	Director Camp Woods	Medium	1,2	\$500,000	Local, State, Federal	Five years	Not started, lack of funding
Chase County-15	Identify and develop alternate flood-proof route to evacuate children and/or provide emergency vehicle access road to Camp Wood. (NFIP)	Flood	Director Camp Woods	Medium	1,2	Dependent on severity of issue	Local, State, Federal	Five years	Not started, lack of funding
Chase County-16	Subsidize purchase and distribution of weather radios.	All Hazards	City Administrator	Medium	1,2	\$20,000	Local, State, Federal	Five years	Not started, lack of funding
Chase County-17	Regularly calculate and document the amount of flood prone property that is preserved as open space to reduce flood insurance burden to the county. (NFIP)	Flood	Road Supervisor	Low	1,2	Staff time	Local	Continuous	Not started, lack of staff
Chase County-18	Work with jurisdictions within the county to identify levee owners.	Dam and Levee Failure, Flood	Road Supervisor	Low	4	Staff time	Local	Five years	Not started, lack of staff
Chase County-19	Implement a study to determine the residual flood risk in levee-protected areas.	Dam and Levee Failure, Flood	County Planner	Low	1,2,4	Staff time	Local	Continuous	Not started, lack of staff
Cedar Point-1	The city of Cedar Point is committed to continued participation in the NFIP .	Flood	City Administrator	High	1,2	Staff time	Local	Continuous	In progress





Table 6.4: Chase County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Cedar Point-2	Seek funding for the Cedar Point potable water supply and develop a strategy to protect the well system from flooding, power failure, and potential contamination. (NFIP)	Flood	City Administrator	High	1,2	\$30,000	Local, State, Federal	Five years	Not started, lack of funding
Cedar Point-3	Seek funding to replace the existing all-weather outdoor warning siren in Cedar Point.	Tornado, Windstorm	City Administrator	High	1,2	\$20,000	Local, State, Federal	Five years	Not started, lack of funding
Cedar Point-4	Engineering study and the construction of a drainage system to protect the built environment and infrastructure in Cedar Point from flooding. (NFIP)	Flood	City Administrator	Medium	1,2	\$40,000	Local, State, Federal	Five years	Not started, lack of funding
Cedar Point-5	Design and build a tornado shelter for the community of Cedar Point.	Tornado, Windstorm	City Administrator	Medium	1,2	\$500,000	Local, State, Federal	Five years	Not started, lack of funding
Cottonwood Falls-1	The City of Cottonwood Falls is committed to continued participation in the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Cottonwood Falls-2	Acquire and demolish flood prone properties. (NFIP) .	Flood	NFIP Administrator	High	3	Market dependent	Local	Not started, lack of funding	Not started, lack of funding
Cottonwood Falls-3	Conduct regular bridge maintenance.	Utility/ Infrastructure Failure	City Clerk	High	1,2	\$150,000	Local, State, Federal	Continuous	Not started, lack of funding
Cottonwood Falls-4	Purchase and install outdoor warning sirens and upgrade current warning devices.	Tornado, Windstorm	City Clerk	High	1,2	\$30,000	Local, State, Federal	Five years	Not started, lack of funding
Cottonwood Falls-5	Purchase and install a permanently mounted emergency generator at community building.	Utility/ Infrastructure Failure	City Clerk	High	1,2	\$35,000	Local, State, Federal	Five years	Not started, lack of funding
Cottonwood Falls-6	Seek funding to design and build a safe room for the community of Cottonwood Falls.	Tornado, Windstorm	City Clerk	High	1,2	\$250,000	Local, State, Federal	Five years	Not started, lack of funding
Cottonwood Falls-7	Incorporate the inspection and management of trees into the city's	All Hazards	Utility Supervisor	Medium	1,2	\$8,000	local	Continuous	Not started, lack of funding





Table 6.4: Chase County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
	routine maintenance process to remove trees as required.								
Elmdale-1	The city of Elmdale is committed to continued participation in the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Elmdale-2	Conduct a study to determine the city's flood control levee is in compliance with applicable regulations and maintenance requirements. Seek funding for engineering studies and compliance upgrades. (NFIP).	Dam and Levee Failure, Flood	Mayor	High	1,2	\$80,000	Local, State, Federal	Continuous	Not started, lack of funding
Elmdale-3	Appoint a committee to establish efficacy of existing storm warning system. Seek funding to upgrade or replace the warning siren for the city.	Tornado, Windstorm	Mayor	High	1,2	\$25,000	Local, State, Federal	Five years	Not started, lack of funding
Matfield Green-1	Seek funding to purchase and install a storm warning siren	Tornado, Windstorm, Hail, Lightning	City Administrator	High	1,2	\$20,000	Local, State, Federal	Three years	Not started, lack of funding
Matfield Green-2	Purchase and install backup generators to maintain potable water supplies to the community during periods of power loss.	Winter Storm, Tornado	City Administrator	High	1,2	\$50,000	Local, State, Federal	Three years	Not started, lack of funding
Matfield Green-3	Construct a community tornado/storm shelter.	Tornado, Windstorm	City Administrator	High	1,2	\$350,000	Local, State, Federal	Three years	Not started, lack of funding
Matfield Green-4	Seek funding to perform an assessment of the two community well houses.	Terrorism/ Agri-terrorism	City Administrator	Medium	1,2	\$55,000	Local, State, Federal	Five years	Not started, lack of funding
Strong City-1	Continued participation in the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Strong City-2	Prepare and adopt an Outdoor Warning Sirens Plan for Strong City. Purchase all recommended equipment from the study.	Tornado, Windstorm	Planning Director	High	1,2	\$50,000	Local, State, Federal	Three years	Not started, lack of funding
Strong City-3	Construct community storm shelters for Strong City.	Tornado, Windstorm	Planning Director	High	1,2	\$350,000	Local, State, Federal	Three years	Not started, lack of funding





Table 6.4: Chase County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Strong City-4	Install backup generators to maintain potable water supplies and sewer lift stations during periods of power loss.	Utility/ Infrastructure Failure	Floodplain Manager	High	1,2	\$50,000	Local, State, Federal	Three years	Not started, lack of funding
Strong City-5	Replace the levee floodgate and pumps. (NFIP).	Flood	Floodplain Manager	Medium	1,2	\$300,000	Local, State, Federal	Five years	Not started, lack of funding
Strong City-6	Conduct a study to determine capacity requirements to maximize available water supply for firefighting services. Seek funding to upgrade raw water well pumps.	Wildfire	Fire Chief	Medium	1,2	\$25,000	Local, State, Federal	Five years	Not started, lack of funding
USD #284-1	Construct tornado safe rooms in Cottonwood Falls Elementary and High School.	Tornado, Windstorm	Superintendent	High	1,2	\$1,000,000	Local, State, Federal	Three years	Not started, lack of funding
USD #284-2	Develop a contingency plan for school operations following a loss of facilities from severe weather events and establish a reserve fund for damages repair due to natural hazards.	All Hazards	Superintendent	Medium	1,2	\$100,000	Local, State	Five years	Not started, lack of funding
USD #284-3	Seek funding to retain a professional to review and update the school's Security Plan for domestic violence, building security, and contagious disease response.	Terrorism/ Civil Disorder	Superintendent	Medium	1,2	\$40,000	Local, State, Federal	Five years	Not started, lack of funding
USD #284-4	Develop and implement a severe weather prevention/education program targeting school children, faculty, and staff. Program information can also be sent home to parents.	Windstorm, Tornados, Hail, Lightning	Superintendent	Medium	1,2	Staff time and \$3,000	Local, State, Federal	Continuous	Not started, lack of funding
Rural Water Districts (all)-1	Acquire a permanent back-up generator for each critical facility and pump station.	Drought	Director	Medium	3	\$200	Local	Five years	Not started, lack of funding
Rural Water Districts (all)-2	Replace existing waterlines in jeopardy of being damaged due to expansive soils.	Expansive Soils	Director	Medium	1,2	\$1,000,000	HMGP, PDM, Local, Other Grants	Five years	Not started, lack of funding





Table 6.4: Chase County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
PWWSO #26-1	Acquire a permanent back-up generator for each critical facility	Utility/ Infrastructure Failure	Director	Medium	3	\$500.00	Local	Five years	Not started, lack of funding
Flint Hill RECs-1	Enhance and upgrade all power lines within the County to better withstand all hazard events.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$4,000,000	Local, State, Federal	Five years	Not started, lack of funding
Lyon-Coffey - 1	Enhance and upgrade all power lines within the County to better withstand all hazard events.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	5,000,000	Local, State, Federal	Five years	Not started, lack of funding





6.8.2 – Geary County Mitigation Actions

Table 6.5: Geary County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Geary County-1	Geary County is committed to continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local, State, Federal	Continuous	In progress
Geary County-2	Regularly contact owners identified in high-risk flood areas and inform them of potential availability of flood insurance, in addition to other flood protection measures. (NFIP).	Flood	Emergency Manager	High	1,2	Staff time	Local, State, Federal	Continuous	In progress
Geary County-3	Collect educational materials on individual and family preparedness and/or mitigation measures for property owners, and display at both the library and routinely visited jurisdiction offices.	All Hazards	Emergency Manager	High	3	Staff time	Local	Continuous	In progress
Geary County-4	Regularly host a public hazards workshop in combination with local festivals, fairs, or other appropriate events.	All Hazards	Emergency Manager	High	3	\$500 per workshop	Local	Continuous	In progress
Geary County-5	Research, design and recommend an appropriate stream buffer ordinance to further protect the jurisdiction's water resources and to limit future flood damages adjacent to major waterways.	Flood	County Planner	High	1,2	Staff time	Local, State, Federal	Three years	On-going, no progress
Geary County-6	Construct safe rooms and storm shelters in underserved areas of the county.	Tornado, Windstorm, Winter Storm	Emergency Manager	High	1,2	\$1,000,000 per shelter	Local, State, Federal	Three years	Not started, lack of funding
Geary County-7	Educate residents about driving in winter storms and handling winter-related health effects.	Winter Storm	Emergency Manager	High	3	Staff time	Local	Continuous	In progress
Geary County-8	Research and recommend appropriate building codes for the County that include wind-resistant design techniques for new construction.	Tornados, Windstorms	County Planner	High	1,2	Staff time	Local	Three years	Not started, lack of staff





Table 6.5: Geary County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Geary County-9	Research and develop a Comprehensive Land Use Plan for Geary County. (NFIP).	Flood	Mitigation Officer, County Planner	High	1,2	\$35,000	Local	Three years	Not started, lack of funding
Geary County-10	Identify flash-flood prone areas to implement flood reduction measures. (NFIP).	Flood	County Planner	High	1,2	Staff time. per project cost	Local	Three years	Not started, lack of staff and funding
Geary County-11	Develop and recommend an amendment to the existing Flood Damage Prevention Ordinance to include a “no-rise (in base flood elevation)” clause for the county. (NFIP).	Flood	Floodplain Manager	High	1,2	Staff time	Local	Three years	Not started, lack of staff
Geary County-12	Conduct an inventory/survey for the emergency response services to identify any existing needs or shortfalls in terms of personnel, equipment or required resources.	All Hazards	Emergency Manager	High	1,2	Staff time, per equipment cost	Local, State, Federal	Continuous	Not started, lack of staff and funding
Geary County-13	Develop and implement a wildfire prevention/education program.	Wildfire	Fire Chief	High	3	Staff time and \$1,000	Local	Continuous	Not started, lack of staff and funding
Geary County-14	Examine the current agreements within the county and assess the need to expand or update cooperative agreements for firefighting resources. Include agreements with local, state and federal agencies.	Wildfire	Fire Chief	High	4	Staff time	Local	Continuous	Not started, lack of staff
Geary County-15	Evaluate the firefighting water supply resources within the County.	Wildfire	Fire Chiefs	High	4	Staff time	Local	Five years	Not started, lack of staff
Geary County-16	Develop an annex to the Local Emergency Operations Plan for dam/levee failure response and evacuation plans for high hazard dams/levees in Geary County.	Dam and Levee Failure	Emergency Manager	Medium	1,2	Staff time and \$15,000	Local	Five years	Not started, lack of staff and funding
Geary County-17	Purchase and install warning sirens in underserved areas of the county.	Tornados, Windstorms	Emergency Manager	Medium	1,2	\$100,000	Local, State, Federal	Five years	Not started, lack of funding





Table 6.5: Geary County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Geary County-18	Develop a program to acquire and preserve parcels of land subject to repetitive flooding from willing and voluntary property owners. (NFIP).	Flood	Mitigation Officer, County Planner	Low	1,2	Dependent upon number and fair market value	Local, State, Federal	Continuous	Not started, lack of funding
Geary County-19	Assess the impact of natural hazards on water distribution lines, systems, and equipment and seek funding sources to mitigate any damage to critical infrastructure.	Utility/ Infrastructure Failure	Superintendent Water District No. 4	Low	1,2	\$200,000	Local, State, Federal	Five years	Not started, lack of funding
Geary County-20	Establish a livestock disposal plan and compost team to address livestock fatality during extreme heat events.	Agricultural Infestation	Emergency Manager	Low	1,2	Staff time	Local, State, Federal	Five years	Not started, lack of staff
Grandview Plaza-1	Continued participation and compliance with the NFIP.	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Grandview Plaza-2	Purchase and demolish flood prone properties. (NFIP).	Flood	NFIP Administrator	High	1,2	\$2,000,000	Local, State, Federal	Five years	Not started, lack of funding
Grandview Plaza-3	Purchase and install warning storm sirens.	All Hazards	Public Works Director	High	1,2	\$27,000	Local, State, Federal	Five years	Not started, lack of funding
Grandview Plaza-4	Purchase and install backup power generator for the community shelter.	All Hazards	City Administrator	Medium	1,2	\$40,000	Local, State, Federal	Three years	Not started, lack of funding
Junction City-1	Junction City is committed to continued participation and compliance with the NFIP.	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Junction City-2	Seek funding for retention projects to decrease exposure to flooding. (NFIP).	Flood	City Administrator	Medium	1,2	\$2,000,000	Local, State, Federal	Five years	Not started, lack of funding
Junction City-3	Improve storm water management by completing projects throughout the city. (NFIP).	Flood	Assistant Manager, Finance Director	Medium	1,2	\$45,000,000	Local, State, Federal	Five years	Not started, lack of funding
Junction City-4	Seek funding to bring the GIS System improvements up to par.	All Hazards	Assistant Manager, Finance Director	Medium	1,2	\$1,000,000	Local, State, Federal	Five years	Not started, lack of funding





Table 6.5: Geary County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Junction City-5	Establish a disaster evacuation plan.	All Hazards	Assistant Manager, Finance Director	Medium	1,2	\$10,000	Local, State, Federal	Five years	Not started, lack of funding
Junction City-6	Improve traffic controls to improve safety during an event	Utility/ Infrastructure Failure	Assistant Manager, Finance Director	Medium	1,2	\$200,000	Local, State, Federal	Five years	Not started, lack of funding
Milford-1	Construct a community safe room for Milford citizens.	Tornados, Windstorms	City Clerk	High	1,2	\$350,000	Local, State, Federal	Five years	Not started, lack of funding
Milford-2	Seek funding for the purchase of backup generators for the water treatment plant, sewer lift station, and the wastewater lagoon lift station.	Utility/ Infrastructure Failure	City Clerk	Medium	1,2	\$60,000	Local, State, Federal	Five years	Not started, lack of funding
Milford-3	Seek funding to perform an assessment of the Milford Water Plant and Milford Waster Water Lagoon and develop an Emergency Response Plan.	Terrorism/ Agri-Terrorism	City Administrator	Low	1,2	\$50,000	Local, State, Federal	Five years	Not started, lack of funding
Milford-5	Develop and implement flood mitigation projects for the City of Milford. (NFIP) .	Flood	City Administrator	Low	1,2,4	Staff time, per project cost	Local, State, Federal	Five years	Not started, lack of funding
Cloud County Community College-1	Purchase and install an emergency communication and notification system.	All Hazards	Campus Vice-President	High	1,2	\$150,000	Local, State, Federal	Five years	Not started, lack of funding
Cloud County Community College -2	Design and construct a safe room.	Tornados, Windstorms	Campus Vice-President	High	1,2	\$750,000	Local, State, Federal	Five years	Not started, lack of funding
USD #475-1	Design and construct safe rooms for all USD #475 buildings.	All Hazards	Director of Operations	High	1,2	\$1,000,000 each	Local, State, Federal	Five years	Not started, lack of funding
USD #475-2	Install a generator at all USD #475 buildings.	Tornados, Windstorms	Director of Operations	High	1,2	\$50,000 each	Local, State, Federal	Five years	Not started, lack of funding
Rural Water Districts (all)-1	Replace water lines in jeopardy of being damaged due to expansive soils.	Expansive Soils	Operator	High	1,2	\$350,000	Local, State, Federal	Five years	Not started, lack of funding





Table 6.5: Geary County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Rural Water Districts (all)-1	Purchase and install automatic switchover on all booster station generators.	Multi-Hazard	Operator	Medium	1,2	\$10,000 each	Local, State, Federal	Five years	Not started, lack of funding
Rural Water Districts (all)-1	Purchase and install automatic switchover on all well generators.	Multi-Hazard	Operator	Medium	1,2	\$10,000 each	Local, State, Federal	Five years	Not started, lack of funding
Blue Stem REC-1	Enhance and upgrade all power lines within the County to better withstand all hazard events.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$75,000,000	Local, State, Federal	12/31/2025	Not started, lack of funding
DS&O REC-1	Enhance and upgrade all power lines within the County to better withstand all hazard events.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$75,000,000	Local, State, Federal	12/31/2025	Not started, lack of funding
Flint Hills REC-1	Enhance and upgrade all power lines within the County to better withstand all hazard events.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$5,000,000	Local, State, Federal	Five years	Not started, lack of funding





6.8.3 – Lyon County Mitigation Actions

Table 6.6: Lyon County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Lyon County-1	Lyon County is committed to continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local, State, Federal	Continuous	In progress
Lyon County-2	Regularly contact owners identified in high-risk flood areas and inform them of potential availability of flood insurance, in addition to other flood protection measures. (NFIP) .	Flood	Emergency Manager	High	1,2	Staff time	Local, State, Federal	Continuous	In progress
Lyon County-3	Collect educational materials on individual and family preparedness and/or mitigation measures for property owners, and display at both the library and routinely visited jurisdiction offices.	All Hazards	Emergency Manager	High	3	Staff time	Local	Continuous	In progress
Lyon County-4	Construct safe rooms and storm shelters in underserved areas of the county.	Tornado, Windstorm, Winter Storm	Emergency Manager	High	1,2	\$1,000,000 per shelter	Local, State, Federal	Three years	Not started, lack of funding
Lyon County-5	Educate residents about driving in winter storms and handling winter-related health effects.	Winter Storm	Emergency Manager	High	1,2,3	Staff time	Local	Continuous	Not started, lack of staff
Lyon County-6	Develop a public outreach program educating residents about the dangers of floods. (NFIP) .	Flood	Floodplain Manager, Emergency Manager	High	4	Staff time	local	Continuous	20% complete - on-going
Lyon County-7	Complete a Community Wildfire Protection Plan.	Wildfire	Fire Chief, Emergency Manager	High	4	Staff time	Local	Three years	Not started, lack of staff
Lyon County-8	Map hazardous wildfire areas in the county.	Wildfire	Fire Chief, Emergency Manager	High	4	Staff time	Local	Three years	Not started, lack of staff
Lyon County-9	Identify flash-flood prone areas to implement flood reduction measures. (NFIP) .	Flood	County Planner	High	1,2	Staff time. per project cost	Local	Three years	Not started, lack of funding
Lyon County-10	Research and design an appropriate stream buffer ordinance to further	Flood	County Planner	High	1,2	Staff time	Local	Three years	Not started, lack of staff





Table 6.6: Lyon County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
	protect the jurisdiction's water resources and to limit future flood damages adjacent to major waterways.								
Lyon County-11	Annually host a public hazards workshop in combination with local festivals, fairs, or other appropriate events.	All Hazards	Floodplain Manager, Emergency Manager	Medium	3	Staff time and \$1,000 per workshop	Local	Continuous	In progress
Lyon County-12	Promote and educate the jurisdiction's public and private sectors on potential agricultural terrorism and bio-terrorism issues that can severely impact the county and regional economies and develop and implement plans to address these issues.	Terrorism/ Agri-Terrorism	Directors, Health Department and County Extension	Medium	3	Staff time	Local	Continuous	20% complete - on-going
Lyon County-13	Identify the most at-risk critical facilities and implement all needed mitigation techniques for protecting each facility e.	All Hazards	Emergency Manager	Medium	1,2	Per project cost	Local	Five years	Not started, lack of funding
Lyon County-14	Develop a program to acquire and preserve parcels of land subject to repetitive flooding from willing and voluntary property owners. (NFIP) .	Flood	Floodplain Manager, Emergency Manager	Low	1,2	Dependent on number of properties and fair market value.	Local, State	Continuous	Not started, lack of funding.
Admire-1	City of Admire is committed to continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Admire-2	Assess flood prone areas and recommend floodplain ordinance updates to city planners. (NFIP) .	Flood	City Planner, City Manager	High	1,2	Staff time	Local	Three years	Not started, lack of staff
Admire-3	Install portable generators at city critical facilities.	Utility/ Infrastructure Failure	City Manager	Medium	1,2	\$60,000	Local, State, Federal	Five years	Not started, lack of funding
Admire-4	Seek funding to renovate fire station, including a community safe room.	Tornados, Windstorms	City Manager	Low	1,2	\$350,000	Local, State, Federal	Five years	60% complete. On-going





Table 6.6: Lyon County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Allen-1	Continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Allen-2	Seek funding to subsidize purchase and distribution of weather radios.	All Hazards	City Manager	High	1,2	\$10,000	Local, State, Federal	Three years	Not started, lack of funding
Allen-3	Assess flood prone areas and implement floodplain ordinance updates to city planners. (NFIP) .	Flood	City Manager	High	1,2	Staff time	Local	Three years	Not started, lack of staff
Allen-4	Complete a stormwater drainage study/plan for the City of Allen that will lead to a stormwater management ordinance. (NFIP) .	Flood	City Manager	Medium	1,2,4	\$35,000	Local, State, Federal	Three years	Not started, lack of funding
Allen-5	Perform improvements to minimize flood damage to existing development by maximizing the effectiveness of the storm sewer infrastructure. (NFIP) .	Flood	City Manager	Low	1,2	\$200,000	Local, State, Federal	Three years	Not started, lack of funding
Americus-1	Continued participation with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local, State	Continuous	In progress
Americus-2	Assess flood prone areas and implement floodplain ordinance updates. (NFIP) .	Flood	City Manager	High	1,2	Staff time	Local	Five years	Not started, lack of staff
Bushong-1	Construct a community safe room.	Tornados, Windstorms	Mayor	High	3	\$300,000	Local, State, Federal	Five years	Not started, lack of funding
Bushong-2	Purchase and install warning sirens for the city.	Tornados, Windstorms	Mayor	High	1,2	\$40,000	Local, State, Federal	Five years	Not started, lack of funding
Emporia-1	The City of Emporia is committed to continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Emporia-2	Construct a community safe room.	Tornados, Windstorms	City Administrator	High	1,2	\$500,000	Local, State, Federal	Five years	Not started, lack of funding
Emporia-3	Develop a public outreach program educating residents about the dangers of floods. (NFIP) .	Flood	Floodplain Manager, City Administrator	High	4	Staff time	Local	Continuous	Not started, lack of staff





Table 6.6: Lyon County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Emporia-6	Assess flood prone areas and implement floodplain ordinance. (NFIP) .	Flood	Floodplain Manager, City Administrator	High	1,2	Staff time	Local	Five years	Not started, lack of staff
Emporia-7	Develop projects and pursue funding for the repair and upgrade of stormwater infrastructure. (NFIP) .	Flood	Floodplain Manager, City Administrator	Low	1,2	\$300,000	Local, State, Federal	Three years	Not started, lack of funding
Hartford-1	The City of Hartford is committed to continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Hartford-2	Construct a community safe room for the protection of our citizens.	Tornados, Windstorms	City Administrator	High	1,2	\$500,000	Local, State, Federal	Five years	Not started, lack of funding
Hartford-3	Assess flood prone areas and implement floodplain ordinance updates. (NFIP) .	Flood	Floodplain Manager, City Administrator	High	1,2	Staff time	Local	Five years	Not started, lack of funding
Hartford-4	Subsidize purchase and distribution of weather radios.	All Hazards	City Administrator	High	1,2	\$8,000	Local, State, Federal	Five years	Not started, lack of funding
Hartford-5	Seek funding for the purchase of backup power generator.	Utility/ Infrastructure Failure	City Administrator	Medium	1,2	\$60,000	Local, State, Federal	Three years	Not started, lack of funding
Neosho Rapids-1	The City of Neosho Rapids is committed to continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Neosho Rapids-2	Construct a community safe room.	Tornados, Windstorms	City Administrator	High	1,2	\$500,000	Local, State, Federal	Three years	Not started, lack of funding
Neosho Rapids-3	Assess flood prone areas and implement floodplain ordinance updates. (NFIP) .	Flood	Floodplain Manager, City Administrator	High	1,2	Staff time	Local	Three years	Not started, lack of staff
Olpe-1	Construct a community safe room.	Tornados, Windstorms	City Manager	High	1,2	\$350,000	Local, State, Federal	Three years	Not started, lack of funding
Olpe-2	Purchase and install portable generators at city critical facilities.	Utility/ Infrastructure Failure	City Manager	Medium	1,2	\$60,000	Local, State, Federal	Five years	Not started, lack of funding





Table 6.6: Lyon County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Reading-1	Construct a community safe room.	Tornados, Windstorms	City Administrator	High	1,2	\$300,000	Local, State, Federal	Three years	Not started, lack of funding
Reading-2	Pursue funding for emergency oxygen for emergency services.	All Hazards	City Administrator	Medium	1,2	\$50,000	Local, State, Federal	Five years	Not started, lack of funding
Emporia State University-1	Construct safe rooms on the Emporia State University campus.	Tornados, Windstorms	President	Low	1,2	\$1,000,000	Local, State, Federal	Five years	Not started, lack of funding
Flint Hills Technical College-1	Purchase and install backup power sources for Flint Hills Technical College facilities.	Utility/Infrastructure Failure	President	Low	1,2	\$100,000	Local, State, Federal	Five years	Not started, lack of funding
USD #251-1	Construct safe rooms in the schools of USD #251.	Tornados, Windstorms	Superintendent	Low	1,2	\$1,000,000	Local, State, Federal	Five years	Not started, lack of funding
USD #252-1	Construct safe rooms in the schools of USD #252.	Tornados, Windstorms	Superintendent	Low	1,2	\$1,000,000	Local, State, Federal	Five years	Not started, lack of funding
USD #252-2	Purchase and install backup generators for all facilities.	Utility/Infrastructure Failure	Superintendent	Medium	1,2	\$100,000	Local, State, Federal	Five years	Not started, lack of funding
USD #253-1	Construct safe rooms in the schools of USD #253.	Tornados, Windstorms	Superintendent	Low	1,2	\$1,000,000	Local, State, Federal	Five years	Not started, lack of funding
Allen Creek Watershed District #89-1	Install increased diameter water lines and additional hydrants throughout county.	Utility/Infrastructure Failure	Assistant Manager	High	1,2	\$4,000,000	Local, State, Federal	Three years	Not started, lack of funding
Allen Creek Watershed District #89-2	Purchase and install generators for all facilities.	Utility/Infrastructure Failure	Operator	High	1,2	\$20,000 each	Local, State, Federal	Three years	Not started, lack of funding
Rural Water Districts (all)-1	Replace water lines in jeopardy of being damaged due to expansive soils.	Expansive Soils	Operator	High	1,2	\$350,000	Local, State, Federal	Three years	Not started, lack of funding
Rural Water Districts (all)-2	Purchase and install automatic switchover on all booster station generators.	Multi-Hazard	Operator	Medium	1,2	\$10,000 each	Local, State, Federal	Five years	Not started, lack of funding





Table 6.6: Lyon County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Rural Water Districts (all)-3	Purchase and install automatic switchover on all well generators.	Multi-Hazard	Operator	Medium	1,2	\$10,000 each	Local, State, Federal	Five years	Not started, lack of funding
Rural Water Districts (all)-4	Install increased diameter water lines and additional hydrants throughout county.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$4,000,000	Local, State, Federal	Three years	Not started, lack of funding
Rural Water Districts (all)-5	Purchase and install generators for all facilities.	Utility/ Infrastructure Failure	Operator	High	1,2	\$20,000 each	Local, State, Federal	Three years	Not started, lack of funding
Salt Creek Watershed Joint District #104-1	Install increased diameter water lines and additional hydrants throughout county.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$4,000,000	Local, State, Federal	Three years	Not started, lack of funding
Salt Creek Watershed Joint District #104-2	Purchase and install generators for all facilities.	Utility/ Infrastructure Failure	Operator	High	1,2	\$20,000 each	Local, State, Federal	Three years	Not started, lack of funding
Upper Marais Des Cygnes Watershed Joint District #101-1	Install increased diameter water lines and additional hydrants throughout county.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$4,000,000	Local, State, Federal	Three years	Not started, lack of funding
Upper Marais Des Cygnes Watershed Joint District #101-2	Purchase and install generators for all facilities.	Utility/ Infrastructure Failure	Operator	High	1,2	\$20,000 each	Local, State, Federal	Three years	Not started, lack of funding
Flint Hills REC-1	Enhance and upgrade all power lines within the County to better withstand all hazard events.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$5,000,000	Local, State, Federal	Ten years	Not started, lack of funding





6.8.4 – Morris County Mitigation Actions

Table 6.7: Morris County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Morris County-1	Collect educational materials on individual and family preparedness and/or mitigation measures for property owners, and display at both the library and routinely visited jurisdiction offices.	All Hazards	Emergency Manager	High	3	Staff time	Local	Continuous	In progress
Morris County-2	Construct safe rooms and storm shelters in underserved areas of the county.	Tornado, Windstorm, Winter Storm	Emergency Manager	High	1,2	\$1,000,000 per shelter	Local, State, Federal	Three years	Not started, lack of funding
Morris County-3	Educate residents about driving in winter storms and handling winter-related health effects.	Winter Storm	Emergency Manager	High	1,2,3	Staff time	Local	Continuous	Not started, lack of staff
Morris County-4	Host a public hazards workshop in combination with local festivals, fairs, or other public events.	All Hazards	Emergency Manager	High	1,2,3	Staff time	Local	Continuous	On-going, continuous
Morris County-5	Coordinate mitigation efforts with RECs, encourage identification of hazards and vulnerabilities potentially affecting their infrastructure, and identification of mitigation strategies.	All Hazards	Emergency Manager	High	1,2,4	Staff time	Local	Five years	Not started, lack of staff
Morris County-6	Examine the current agreements within the jurisdiction and assess the need to expand or update cooperative agreements for firefighting resources. Include agreements with local, state and federal agencies.	Wildfire	Fire Chief, Emergency Manager	High	1,2,4	Staff time	Local	Five years	Not started, lack of staff
Morris County-7	Develop an annex to the Local Emergency Operations Plan for dam failure response and evacuation plans for high hazard dams in the jurisdiction.	Dam and Levee Failure	Emergency Manager	High	1,2	Staff time	Local	Five years	Not started, lack of staff
Morris County-8	Conduct an inventory/survey for the county's emergency response services to identify any existing needs or shortfalls in terms of personnel, equipment or	All Hazards	Emergency Manager	High	1,2	Staff time, per equipment cost	Local, State, Federal	Five years	Not started, lack of funding and staff





Table 6.7: Morris County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
	required resources. Purchase needed equipment.								
Morris County-9	Inform the owners of the high hazard dams in the county of their responsibility to provide EAPs to the Morris County Emergency Management as prescribed by the KDA-DWR, Chief Engineer.	Dam and Levee Failure	Emergency Manager	High	1,2,4	Staff time	Local	Five years	Not started, lack of staff
Morris County-10	Promote and educate the jurisdiction's public and private sectors on potential agricultural terrorism and bio-terrorism issues that can severely impact the county and regional economies and develop and implement plans to address these issues.	Terrorism/ Agri-Terrorism	Director Health Department, Extension Officer, Emergency Manager	Medium	3	Staff time and \$5,000	Local, State, Federal	Five years	Not started, lack of funding and staff
Morris County-11	Identify the jurisdiction's most at-risk critical facilities and implement mitigation actions to protect each facility.	All Hazards	Emergency Manager	Medium	1,2	Staff time, per project cost	Local	Five years	Not started, lack of funding and staff
Morris County-12	Evaluate the firefighting water supply resources within the jurisdiction. This should include both fixed and mobile supply issues.	Wildfire	Fire Chief, Emergency Manager	Medium	1,2	Staff time	Local	Five years	Not started, lack of staff
Morris County-13	Developing a Land Use Plan for Morris County.	Flood	Emergency Manager	Medium	1,2	Staff time and \$35,000	Local	Five years	Not started, lack of funding and staff
Morris County-14	Purchase and install warning sirens in the White Memorial Camp area.	Tornados, Windstorms	Emergency Manager	Medium	1,2	\$500,000	Local, State, Federal	Five years	Not started, lack of funding
Morris County-15	Subsidize purchase and distribution of weather radios.	All Hazards	Emergency Manager	Medium	1,2	\$10,000	Local, State, Federal	Five years	Not started, lack of funding
Council Grove-1	The City of Council Grove is committed to continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress





Table 6.7: Morris County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Council Grove-2	Construct community safe rooms.	Tornados, Windstorms	City Manager	High	1,2	\$500,000	Local	Three years	Not started, lack of funding
Council Grove-3	Research funding options to assist in repairing the levees located in Council Grove. (NFIP) .	Flood	Roads and Parks Superintendent	High	1,2	Dependent on severity of repairs needed.	Local, State, Federal	Three years	Not started, lack of funding
Council Grove-4	Purchase and install a security fence around the water tower.	Utility/ Infrastructure Failure	Water Superintendent	High	1,2	\$50,000	Local, State, Federal	Three years	Not started, lack of funding
Council Grove-5	Purchase and install a water plant clarifier roof to protect the water supply.	Utility/ Infrastructure Failure	Water Superintendent	High	1,2	\$80,000	Local, State, Federal	Three years	Not started, lack of funding
Council Grove-6	Purchase and install a 200-amp backup electric generator.	Utility/ Infrastructure Failure	Water Superintendent	High	1,2	\$70,000	Local, State, Federal	Three years	Not started, lack of funding
Council Grove-7	Purchase and install a generator at the Council Grove Armory.	Utility/ Infrastructure Failure	Recreation Director	High	1,2	\$42,200	Local, State, Federal	Three years	Not started, lack of funding
Council Grove-8	Assess flood prone areas and implement flood reduction measures. (NFIP) .	Flood	City Manager	Medium	1,2	\$20,000	Local	Five years	Not started, lack of funding
Council Grove-9	Seek funding to upgrade and purchase and install new warning sirens.	Tornados, Windstorms	City Manager	Medium	1,2	\$90,000	Local, State, Federal	Five years	Not started, lack of funding
Dunlap-1	Continued participation and compliance in the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Dunlap-2	Construct community safe rooms to protect the population during weather events.	Tornados, Windstorms	City Manager	High	1,2	\$300,000	Local	Five years	Not started, lack of funding
Dunlap-3	Assess flood prone areas and implement flood reduction measures. (NFIP) .	Flood	City Manager	Medium	1,2	Staff time, per project cost	Local	Five years	Not started, lack of staff and funding
Dunlap-4	Purchase and install warning sirens in the City of Dunlap.	All Hazards	City Manager	Medium	1,2	\$90,000	Local, State, Federal	Five years	Not started, lack of funding





Table 6.7: Morris County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Dwight-1	Continued participation and compliance in the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Dwight-2	Construct community safe rooms to protect the population during weather events.	Tornados, Windstorms	City Manager	High	1,2	\$300,000	Local	Five years	Not started, lack of funding
Dwight-3	Conduct an inventory / survey for emergency response services within the City of Dwight to identify existing needs in terms of personnel, equipment, or required resources	All Hazards	City Manager	Medium	1,2	Staff time	Local	Five years	Not started, lack of staff
Dwight-4	Assess flood prone areas and implement flood reduction measures. (NFIP).	Flood	City Manager	Medium	1,2	Staff time, per project cost	Local	Five years	Not started, lack of staff and funding
Latimer-1	Construct community safe rooms.	Tornados, Windstorms	City Manager	High	1,2	\$300,000	Local	Five years	Not started, lack of funding
Latimer-2	Incorporate the inspection and management of trees that may pose a threat to the city's routine maintenance system process.	All Hazards	City Manager	Medium	1,2	Staff time and \$8,000	Local, State, Federal	Five years	Not started, lack of staff and funding
Parkerville-1	Construct community safe rooms to protect the population during weather events.	Tornados, Windstorms	City Manager	High	1,2	\$300,000	Local	Five years	Not started, lack of funding
Parkerville-2	Incorporate the inspection and management of trees that may pose a threat to the city's routine maintenance system process.	All Hazards	City Manager	Medium	1,2	\$8,000	Local, State, Federal	Five years	Not started, lack of staff and funding
White City-1	Construct community safe rooms to protect the population during weather events.	Tornados, Windstorms	City Manager	High	1,2	\$300,000	Local	Five years	Not started, lack of funding
White City-2	Purchase and install backup power generators and/or transfer switches for the city water supply.	Utility/ Infrastructure Failure	City Manager	Medium	1,2	\$60,000	Local, State, Federal	Five years	Not started, lack of funding
Wilsey-1	Continued participation and compliance in the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress





Table 6.7: Morris County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Wilsey-2	Construct community safe rooms.	Tornados, Windstorms	City Manager	High	1,2	\$300,000	Local	Five years	Not started, lack of funding
Wilsey-3	Assess flood prone areas and implement flood reduction measures. (NFIP) .	Flood	City Manager	Medium	1,2	Staff time, per project cost	Local	Five years	Not started, lack of staff and funding
USD #417-1	Construct safe rooms in all USD #417 buildings.	Tornados, Windstorms	Superintendent	Medium	1,2	\$1,000,000	Local, State, Federal	Five years	Not started, lack of funding
USD #417-2	Promote and educate the students and staff members of USD #417 on tornado safety in schools.	Tornados, Windstorms	Superintendent	High	1,2	Staff time	Local	Continuous	In progress
USD #481-1	Construct safe rooms in all USD #481 buildings.	Tornados, Windstorms	Superintendent	Medium	1,2	\$1,000,000	Local, State, Federal	Five years	Not started, lack of funding
USD #481-2	Purchase and install weather-resistant roofing for the school buildings of USD #481.	All Hazards	Superintendent	High	1,2	\$300,000	Local, State, Federal	Five years	Not started, lack of funding
Diamond Creek WJD #61-1	Purchase and install backup generators	Utility/ Infrastructure Failure	Operations Manager	Medium	1,2	\$300,000	Local, State, Federal	Five years	Not started, lack of funding
Lyon Creek WJD #41-1	Purchase and install backup generators	Utility/ Infrastructure Failure	Operations Manager	Medium	1,2	\$300,000	Local, State, Federal	Five years	Not started, lack of funding
Rock Creek WJD #84-1	Purchase and install backup generators	Utility/ Infrastructure Failure	Operations Manager	Medium	1,2	\$300,000	Local, State, Federal	Five years	Not started, lack of funding
Rural Water Districts (all)-1	Replace water lines in jeopardy of being damaged due to expansive soils.	Expansive Soils	Operator	High	1,2	\$350,000	Local, State, Federal	Five years	New
Rural Water Districts (all)-1	Purchase and install automatic switchover on all booster station generators.	Multi-Hazard	Operator	Medium	1,2	\$10,000 each	Local, State, Federal	Five years	New
Rural Water Districts (all)-1	Purchase and install automatic switchover on all well generators.	Multi-Hazard	Operator	Medium	1,2	\$10,000 each	Local, State, Federal	Five years	New





Table 6.7: Morris County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Flint Hills-1	Enhance and upgrade all power lines within the County to better withstand all hazard events.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$5,000,000	Local, State, Federal	Ten years	Not started, lack of funding





6.8.5 – Pottawatomie County Mitigation Actions

Table 6.8: Potawatomie County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Pottawatomie County-1	Pottawatomie County is committed to continued participation and compliance with the NFIP .	Flood	Emergency Manager	High	1,2	Staff time	Local	Continuous	In progress
Pottawatomie County-2	Regularly contact owners identified in high-risk flood areas and inform them of potential availability of flood insurance, in addition to other flood protection measures. (NFIP).	Flood	Emergency Manager	High	1,2	Staff time	Local, State, Federal	Continuous	In progress
Pottawatomie County-3	Collect educational materials on individual and family preparedness and/or mitigation measures for property owners, and display at both the library and routinely visited jurisdiction offices.	All Hazards	Emergency Manager	High	3	Staff time	Local	Continuous	In progress
Pottawatomie County-5	Construct safe rooms and storm shelters in underserved areas of the county.	Tornado, Windstorm, Winter Storm	Emergency Manager	High	1,2	\$1,000,000 per shelter	Local, State, Federal	Three years	Not started, lack of funding
Pottawatomie County-5	Collect educational materials on individual and family preparedness / mitigation measures for property owners, to include vulnerable needs.	All Hazards	Emergency Manager	High	3	Staff time and \$6,000 per year	Local	Continuous	In progress
Pottawatomie County-7	Regularly host a public hazards workshop in combination with local festivals, fairs, or other appropriate events.	All Hazards	Emergency Manager	High	3	Staff time and \$1,500 per workshop	Local, State	Continuous	In progress
Pottawatomie County-8	Construct safe rooms and storm shelters in underserved areas of the county.	Tornado, Windstorm, Winter Storm	Emergency Manager	High	1,2	\$1,000,000 per shelter	Local, State, Federal	Three years	Not started, lack of funding
Pottawatomie County-12	Install warning sirens in underserved areas of the county.	All Hazards	Emergency Manager	Low	1,2	\$90,000	Local, State, Federal	Three years	Not started, lack of funding
Pottawatomie County-11	Develop an annex to the Local Emergency Operations Plan for dam failure response and evacuation plans for	Dam and Levee Failure	Emergency Manager	High	1,2,4	Staff time	Local	Three years	Not started, lack of staff





Table 6.8: Potawatomi County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
	high hazard dams in Pottawatomie County.								
Pottawatomie County-14	Research and recommend an appropriate stream buffer ordinance to further protect the jurisdiction’s water resources and to limit future flood damages adjacent to major waterways. (NFIP) .	Flood	Zoning and Floodplain Manager	High	1,2	Staff time	Local	Three years	Not started, lack of staff
Pottawatomie County-16	Conduct an inventory/survey for the county’s emergency response services to identify any existing needs or shortfall and purchase recommended equipment.	All Hazards	Emergency Manager	High	1,2	Staff time, per equipment cost	Local	Three years	Not started, lack of staff and funding
Pottawatomie County-9	Educate residents about driving in winter storms and handling winter-related health effects.	Winter Storm	Emergency Manager	High	3	Staff time	Local	Continuous	Not started, lack of staff
Pottawatomie County-10	Promote and educate the jurisdiction’s public and private sectors on potential agricultural terrorism and bio-terrorism issues that can severely impact the county and regional economies and develop and implement plans to address these issues.	Terrorism/ Agri-terrorism	Director County Health Department, Emergency Manager, Extension Officer	Medium	3	Staff time and \$5,000	Local, State, Federal	Five years	Not started, lack of staff and funding
Pottawatomie County-19	Develop and implement a wildfire prevention/education program.	Wildfire	Fire Chief	Medium	3	Staff time and \$10,000 per year	Local, State, Federal	Continuous	Not started, lack of staff and funding
Pottawatomie County-21	Evaluate the firefighting water supply resources within the county.	Wildfire	Fire Chief	Medium	4	Staff time	Local	Five years	Not started, lack of staff
Pottawatomie County-22	Incorporate the inspection and management of hazardous trees into the county’s routine maintenance process.	All Hazards	Director Public Works	Low	1,2	\$10,000	Local, State, Federal	Five years	Not started, lack of funding
Pottawatomie County-13	Develop a program to acquire and preserve parcels of land subject to flooding from willing and voluntary property owners. (NFIP) .	Flood	Zoning and Floodplain Manager	Low	1,2	Dependent on fair market value	Local, State, Federal	Five years	Not started, lack of funding
Belvue-1	The City of Belvue is committed to continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress





Table 6.8: Potawatomi County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Belvue-2	Construct a community safe room.	Tornados, Windstorm	City Administrator	High	1,2	\$300,000	Local, State, Federal	Three years	Not started, lack of funding
Belvue-3	Repair, purchase and install new sirens as needed to ensure area coverage.	All Hazards	City Administrator	Medium	1,2	\$30,000	Local, State, Federal	Five years	Not started, lack of funding
Belvue-4	Assess flood prone areas and implement flood reduction measures. (NFIP) .	Flood	City Administrator	Medium	1,2	Staff time, per project cost	Local	Five years	Not started, lack of staff and funding
Belvue-5	Purchase and install generators at critical facilities.	Utility/ Infrastructure Failure	City Administrator	Low	1,2	\$50,000	Local, State, Federal	Five years	Not started, lack of funding
Emmett-1	Construct a community safe room.	Tornados, Windstorm	City Administrator	High	1,2	\$300,000	Local, State, Federal	Three years	Not started, lack of funding
Havensville-1	Continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Havensville-2	Construct a community safe room.	Tornados, Windstorm	City Administrator	High	1,2	\$300,000	Local, State, Federal	Three years	Not started, lack of funding
Havensville-3	Assess flood prone areas and implement flood reduction measures. (NFIP) .	Flood	City Administrator	Medium	1,2	Staff time, per project cost	Local	Five years	Not started, lack of staff and funding
Havensville-4	Purchase and install warning sirens.	Tornados, Windstorm	City Administrator	Medium	1,2	\$15,000	Local, State, Federal	Five years	New
Louisville-1	Continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Louisville-2	Construct a community safe room.	Tornados, Windstorm	City Administrator	High	1,2	\$300,000	Local, State, Federal	Three years	Not started, lack of funding
Louisville-3	Purchase emergency cones and barricades for the city.	All Hazards	City Administrator	Medium	1,2	\$20,000	Local, State, Federal	Five years	Not started, lack of funding
Louisville-4	Assess flood prone areas and implement flood reduction measures. (NFIP) .	Flood	City Administrator	Medium	1,2	Staff time, per project cost	Local	Five years	Not started, lack of staff and funding





Table 6.8: Potawatomi County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Olsburg-1	Construct a community safe room.	Tornados, Windstorm	City Administrator	High	1,2	\$300,000	Local, State, Federal	Three years	Not started, lack of funding
Olsburg-2	Purchase and install generators at critical city facilities.	Utility/ Infrastructure Failure	City Clerk	High	1,2	\$50,000 each	Local, State, Federal	Three years	Not started, lack of funding
Onaga-1	Continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Onaga-2	Construct a community safe room.	Tornados, Windstorm	Mayor	High	1,2	\$300,000	Local, State, Federal	Three years	Not started, lack of funding
Onaga-3	Purchase and install warning sirens.	Tornados, Windstorm	City Clerk	High	1,2	\$100,000	Local, State, Federal	Three years	Not started, lack of funding
Onaga-4	Purchase and install generators at lift station and wells	Utility/ Infrastructure Failure	City Clerk	High	1,2	\$50,000 each	Local, State, Federal	Three years	Not started, lack of funding
Onaga-5	Assess flood prone areas and implement flood reduction measures. (NFIP).	Flood	City Administrator	Medium	1,2	Staff time, per project cost	Local	Five years	Not started, lack of staff and funding
St. George-1	Continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
St. George-2	Construct a community safe room.	Tornados, Windstorm	City Administrator	High	1,2	\$300,000	Local, State, Federal	Three years	On-going, no funding
St. George-3	Assess flood prone areas and implement flood reduction measures. (NFIP).	Flood	City Administrator	High	1,2	Staff time, per project cost	Local	Three years	Not started, lack of staff and funding
St. Mary's-1	Continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
St. Mary's-2	Assess flood prone areas and implement flood reduction measures. (NFIP).	Flood	City Administrator	High	1,2	Staff time, per project cost	Local	Three years	Not started, lack of staff and funding
St. Mary's-3	Construct a community safe room.	Tornados, Windstorm	City Administrator	High	1,2	\$300,000	Local, State, Federal	Three years	Not started, lack of funding





Table 6.8: Potawatomi County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
St. Mary's-4	Seek funding to initiate a weather radio program by purchasing and subsidizing radios.	All Hazards	City Administrator	Medium	1,2	\$5,000	Local, State, Federal	Five years	Not started, lack of funding
St. Mary's-5	Supplement existing public works equipment to better respond to severe weather.	All Hazards	City Administrator	Low	1,2	\$25,000	Local, State, Federal	Five years	Not started, lack of funding
St. Mary's-6	Conduct an assessment of cities water supply system to evaluate potential hazard exposure, develop a plan to upgrade, and secure and protect the water supply. Seek funding to implement study results.	Utility/ Infrastructure Failure	City Administrator	Low	1,2	Dependent on study results.	Local, State, Federal	Five years	Not started, lack of funding
St. Mary's-7	Purchase and install generators at critical facilities.	Utility/ Infrastructure Failure	City Administrator	Low	1,2	\$50,000	Local, State, Federal	Five years	Not started, lack of funding
St. Mary's-8	The City will fund and repair deficiencies noted by the KDA-DWR dam inspection report for College Park Dam (FRD No. 2).	Dam and Levee Failure	City Administrator	Low	1,2	\$300,000	Local, State, Federal	Five years	Not started, lack of funding
Wamego-1	Continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Wamego-2	Assess flood prone areas and implement flood reduction measures. (NFIP).	Flood	City Administrator	High	1,2	Staff time, per project cost	Local	Three years	Not started, lack of staff and funding
Wamego-3	Construct a community safe room.	Tornados, Windstorm	City Administrator	High	1,2	\$300,000	Local, State, Federal	Five years	Not started, lack of funding
Westmoreland -1	Construct a community safe room.	Tornados, Windstorm	City Clerk	High	1,2	\$300,000	Local, State, Federal	Five years	On-going, funding not available
Wheaton-1	Construct a community safe room.	Tornados, Windstorm	Mayor	High	1,2	\$300,000	Local, State, Federal	Three years	Not started, lack of funding
USD #320-1	Construct safe rooms for all USD #320 facilities	Tornados, Windstorm	Superintendent	High	1,2	\$1,000,000 per shelter	Local, State, Federal	Three years	Not started, lack of funding





Table 6.8: Potawatomi County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
USD #320-2	Retain a professional to review and update the school's Security Plan and contagious disease response. Implement recommendations.	All Hazards	Operations Director	High	1,2	\$75,000	Bonds, State, Federal	Three years	Not started, lack of funding
USD #320-4	Replace sewer lines under the Wamego High School Locker rooms and West Elementary School.	Utility/ Infrastructure Failure	Operations Director	High	1,2	\$1,000,000	Local, State, Federal	Three years	Not started, lack of funding
USD #320-6	Replace metal roofs at all facilities.	Tornados, Windstorm, Winter Storm	Operations Director	High	1,2	\$1,500,000 - \$5,000,000	Local, State, Federal	Five years	Not started, lack of funding
USD #320-7	Re-key all interior doors in the Middle School.	Terrorism, Civil Disorder	Operations Director	Medium	1,2	\$35,000	Local, State, Federal	Five years	Not started, lack of funding
USD #320-8	Purchase and install an electronic access system for all school facilities.	Terrorism/, Civil Disorder	Operations Director	Medium	1,2	\$25,000	Local, State, Federal	Five years	Not started, lack of funding
USD #320-3	Purchase and install generators for USD #320 facilities	Utility/ Infrastructure Failure	Superintendent	Low	1,2	\$100,000	Local, State, Federal	Five years	Not started, lack of funding
USD #321-1	Construct safe rooms for USD #321 facilities	Tornados, Windstorm	Superintendent	High	1,2	\$1,000,000 per shelter	Local, State, Federal	Three years	Not started, lack of funding
USD #322-1	Construct safe rooms for USD #322 facilities	Tornados, Windstorm	Superintendent	High	1,2	\$1,000,000 per shelter	Local, State, Federal	Three years	Not started, lack of funding
USD #323-1	Construct safe rooms for USD #323 facilities	Tornados, Windstorm	Superintendent	High	1,2	\$1,000,000 per shelter	Local, State, Federal	Three years	Not started, lack of funding
USD #384-1	Construct safe rooms for USD #384 facilities	Tornados, Windstorm	Superintendent	High	1,2	\$1,000,000 per shelter	Local, State, Federal	Three years	Not started, lack of funding
Belvue Drainage District-1	Purchase equipment and institute program to clear brush off all dikes.	Dam/Levee Failure	Board Members	High	1,2	\$10,000	Local, State, Federal	Five years	Not started, lack of funding





Table 6.8: Potawatomi County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Cross Creek WJD #42-1	Purchase and install lightning suppression equipment at all facilities.	Utility/ Infrastructure Failure	Manager	High	1,2	\$50,000	Local, State, Federal	Five years	Not started, lack of funding
Cross Creek WJD #42-2	Purchase and install security fences, gates and video surveillance at all facilities.	Utility/ Infrastructure Failure	Manager	High	1,2	\$75,000 each facility	Local, State, Federal	Five years	Not started, lack of funding
Cross Creek WJD #42-3	Purchase and install backup generators and automatic switching for all facilities.	Utility/ Infrastructure Failure	Manager	High	1,2	\$200,000 each	Local, State, Federal	Five years	Not started, lack of funding
Cross Creek WJD #42-4	Construct water storage tanks near all subdivisions to ensure constant water flow.	Utility/ Infrastructure Failure	Manager	High	1,2	\$75,000 each facility	Local, State, Federal	Five years	Not started, lack of funding
Rural Water Districts (all)-1	Purchase and install lightning suppression equipment at all facilities.	Utility/ Infrastructure Failure	Manager	High	1,2	\$50,000	Local, State, Federal	Five years	Not started, lack of funding
Rural Water Districts (all)-2	Purchase and install security fences, gates and video surveillance at all facilities.	Utility/ Infrastructure Failure	Manager	High	1,2	\$75,000 each facility	Local, State, Federal	Five years	Not started, lack of funding
Rural Water Districts (all)-3	Purchase and install backup generators and automatic switching for all facilities.	Utility/ Infrastructure Failure	Manager	High	1,2	\$200,000 each	Local, State, Federal	Five years	Not started, lack of funding
Rural Water Districts (all)-4	Construct water storage tanks near all subdivisions to ensure constant water flow.	Utility/ Infrastructure Failure	Manager	High	1,2	\$75,000 each facility	Local, State, Federal	Five years	Not started, lack of funding
Blue Stem-1	Enhance and upgrade all power lines, utility poles and distribution line equipment to better withstand all hazard events.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$75,000,000	Local, State, Federal	Ten years	Not started, lack of funding
Nemaha-Marshall Electric-1	Enhance and upgrade all power lines within the County to better withstand all hazard events.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$55,000,000	Local, State, Federal	Ten years	Not started, lack of funding





6.8.6 – Riley County and Participating Jurisdiction Mitigation Actions

Table 6.9: Riley County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Riley County-1	Riley County is committed to continued participation and compliance with the NFIP .	Flood	Floodplain Manager, Mitigation Officer	High	1,2	Staff time	Local	Continuous	In progress
Riley County-2	Fund a reoccurring outreach program to educate citizens about the advantage of protecting their property from flooding and complying with NFIP .	Flood	Floodplain Manager, Mitigation Officer	High	1,2	\$10,000	Local, State, Federal	Continuous	In progress
Riley County-3	Fund a reoccurring outreach program to educate citizens about emergency preparedness and mitigation measures.	All Hazards	Emergency Management	High	3	\$10,000	Local, State, Federal	Continuous	In progress
Riley County-4	Seek funding for the construction of FEMA-approved safe rooms and storm shelters in public and private schools, day care centers, senior care facilities, mobile home parks, and multi-family residential.	Tornado, Windstorm	Floodplain Manager, Emergency Manager	High	1,2,3	\$2,000,000	Local, State, Federal	Three years	Not started, lack of funding
Riley County-5	Advertise and promote the availability of flood insurance to county property owners by direct mail once a year. (NFIP)	Flood	Floodplain Manager, Mitigation Officer	High	1,2	Staff time	Local	Continuous	In progress
Riley County-6	Fund a future conditions floodplain map that depicts the extent of the 1% floodplain following the build out of city of Manhattan to 2035. (NFIP)	Flood	GIS Department Director, Floodplain Manager	High	1,2	\$50,000	Local, State, Federal	Three years	On-going, lack of funds
Riley County-7	Fund the development of a fire management plan.	Wildfire	Fire Chief	High	4	\$20,000,000	Local, State, Federal	Three years	In progress
Riley County-8	Fund a study to identify the medium and high hazard dams in Riley County and develop a Dam Safety Plan for each.	Dam and Levee Failure	Emergency Manager, Planning and Development Supervisor	High	1,2	\$10,000	Local, State, Federal	Three years	Not started, lack of funding
Riley County-9	Fund the hiring of a consultant to develop higher standard floodplain regulations. (NFIP)	Flood	Planning and Development Supervisor	High	1,2	\$10,000	Local, State, Federal	Three years	Not started, lack of funding





Table 6.9: Riley County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Riley County-20	Fund the expansion of outdoor warning and notification systems.	All Hazards	Emergency Manager	High	1,2	\$200,000	Local, State, Federal	Three years	Not started, lack of funding
Riley County-11	Purchase and install an engineered radio system that allows county-wide interoperability with regional and state partners and train users on system.	All Hazards	Emergency Manager	High	1,2	\$11,000,000	Local, State, Federal	Three years	Not started, lack of funding
Riley County-12	Fund a reoccurring outreach program to educate public and private sectors to prepare for and mitigate against potential agricultural terrorism and bioterrorism.	Terrorism/ Agri-terrorism	County Health Department Director, Extension Officer, Emergency Manager, Police Chief	Medium	3	\$10,000	Local, State, Federal	Five years	Not started, lack of funding
Riley County-13	Fund a program for buyout/relocation. This would include the acquisition of parcels of land within the 1 percent annual chance floodplain from willing property owners, the relocation of structures and their occupants, demolition, and any necessary environmental remediation.	Flood	Planning and Development Supervisor, Emergency Manager	Medium	1,2	\$10,000,000	Local, State, Federal	Five years	Not started, lack of funding
Riley County-14	Fund a software program to conduct risk analysis and assessments for land use decision making	All Hazards	Public Works Supervisor, Planning and Development Supervisor, Emergency Manager	Medium	1,2	\$50,000	Local, State, Federal	Five years	Not started, lack of funding
Riley County-15	Fund the hiring of a consultant to develop zoning and subdivision regulations to mitigate hazards.	All Hazards	Planning and Development Supervisor	Medium	1,2	\$150,000	Local, State, Federal	Five years	Not started, lack of funding
Riley County-16	Fund the hiring of a consultant to develop a stormwater management plan for Riley County. (NFIP)	Flood	Planning and Development Supervisor	Medium	1,2	\$50,000	Local, State, Federal	Five years	Not started, lack of funding





Table 6.9: Riley County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Riley County-17	Create a working group to evaluate the firefighting water supply resources within the County. This should include both fixed and mobile supply issues.	Wildfire	Fire Chief	Medium	4	Staff time	Local	Five years	Not started, lack of staff
Riley County-18	Fund the formation of a Wildcat Creek Watershed District. (NFIP)	Flood	Planning and Development Supervisor	Low	1,2	\$25,000,000	Local, State, Federal	Five years	Not started, lack of funding
Riley County-19	Fund a study to identify the county's critical facilities and infrastructure and develop mitigation techniques for protecting each facility in a cost-effective manners	All Hazards	Emergency Manager, Public Works Director	Low	1,2	\$20,000	Local, State, Federal	Five years	Not started, lack of funding
Leonardville-1	Develop educational brochures for city residents to inform them of the availability of Community Center services during inclement weather.	All Hazards	City Administrator	High	1,2	Staff time	Local	Continuous	In progress
Leonardville-2	Purchase and install backup power sources for critical facilities in Leonardville.	Utility/ Infrastructure Failure	City Administrator	High	1,2	\$50,000	Local, State, Federal	Three years	Not started, lack of funding
Manhattan-1	The city of Manhattan is committed to continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Manhattan-2	Develop a program to acquire and preserve parcels of land subject to flooding from willing and voluntary property owners. (NFIP)	Flood	Mitigation Officer, Floodplain Manager, City Manager	High	1,2	Dependent upon fair market value and number of properties	Local, State, Federal	Three years	Not started, lack of funding
Manhattan-3	Identify and map flash-flood prone areas implement flood reduction measures. (NFIP)	Flood	Mitigation Officer, Floodplain Manager	High	1,2	Staff time, per project cost	Local	Three years	Not started, lack of staff and funding
Manhattan-4	Develop and implement standards designed to restrict development in natural hazard areas and	All Hazards	City Manager	High	1,2,4	Staff time	Local	Three years	Not started, lack of staff





Table 6.9: Riley County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
	environmentally sensitive areas as identified in the Comprehensive Plan.								
Manhattan-5	Develop and implement standards for open space dedication requirements.	Flood	City Manager	High	1,2,4	Staff time	Local	Three years	Not started, lack of staff
Manhattan-6	The city of Manhattan will complete PM 43 certification of the city levee according to the FEMA Provisionally Accredited Levee agreement.	Dam and Levee Failure	City Engineer, Director Planning and Zoning	High	1,2,4	\$200,000	Local, State, Federal	Three years	Not started, lack of funding
Ogden-1	The city of Ogden is committed to continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Ogden-2	Research and pursue funding for the purchase and installation of alternative forms of public warning and mass notification systems.	All Hazards	City Administrator	High	1,2	\$60,000	Local, State, Federal	Three years	Not started, lack of funding
Ogden-3	Develop a program to acquire and preserve parcels of land subject to flooding from willing and voluntary property owners. (NFIP)	Flood	City Administrator	High	1,2	Dependent upon fair market value and number of properties	Local, State, Federal	Three years	Not started, lack of funding
Ogden-4	Seek funding to design and construct a community safe room	Tornado, Windstorm	City Clerk, City Engineer	High	1,2	\$100,000 - \$200,000	Local, State, Federal	Three years	Not started, lack of funding
Ogden-5	Purchase and install backup generators for the Ogden Community Center and critical facilities.	Utility/ Infrastructure Failure	City Clerk	High	1,2	\$260,000	Local, State, Federal	Three years	Not started, lack of funding
Randolph-1	Purchase and install alternative forms of public warning and mass notification systems.	All Hazards	City Administrator	High	1,2	\$60,000	Local, State, Federal	Five years	Not started, lack of funding
City of Riley-1	The city of Riley is committed to continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
City of Riley-2	Develop a program to acquire and preserve parcels of land subject to	Flood	City Manager	High	1,2	Dependent upon fair market	Local, State, Federal	Five years	Not started, lack of funding





Table 6.9: Riley County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
	flooding from willing and voluntary property owners. (NFIP)					value and number of properties			
City of Riley-3	Research and pursue funding for the installation of alternative forms of public warning and mass notification systems.	All Hazards	City Manager	Medium	1,2	\$60,000	Local, State, Federal	Five years	Not started, lack of funding
City of Riley-4	Seek funding for the purchase of transfer switches for facilities designated as community shelters to be compatible with generator use	Utility/ Infrastructure Failure	City Manager	High	1,2	\$15,000	Local, State, Federal	Five years	Not started, lack of funding
City of Riley-5	Develop a city emergency operations plan	All Hazards	City Manager	Medium	1,2	Staff time	Local	Five years	Not started, lack of staff
KSU-1	Public Safety will research and implement enhancements to the University's early warning emergency notification systems (K-State Alerts) for faculty, staff, students and the general public for weather alerts and campus emergencies.	All Hazards	KSU Public Safety Director	Medium	1,2	\$100,000	Local, State, Federal	Five years	Not started, lack of staff
USD #378-1	Construct safe rooms for all USD #378 schools	Tornado, Windstorm	Superintendent	High	1,2	\$1,000,000	Local, State, Federal	Three years	Not started, lack of staff
USD #378-2	Review and design access features for all school buildings to determine appropriate upgrades to building entrances and exits, and passageways between facilities.	Terrorism/ Agri-terrorism	Superintendent	Medium	1,2	\$85,000	Local, State, Federal	Five years	Not started, lack of staff
USD #383-1	Construct safe rooms for USD #383 schools	Tornado, Windstorm	Superintendent	High	1,2	\$1,000,000	Local, State, Federal	Three years	Not started, lack of staff
USD #384-1	Construct safe rooms for USD #384 schools	Tornado, Windstorm	Superintendent	High	1,2	\$1,000,000	Local, State, Federal	Three years	Not started, lack of staff
Blue Stem-1	Enhance and upgrade all power lines, utility poles and distribution line equipment to better withstand all hazard events.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$75,000,000	Local, State, Federal	Ten years	Not started, lack of staff





Table 6.9: Riley County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Flint Hills-1	Enhance and upgrade all power lines within the County to better withstand all hazard events.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$10,000,00 0	Local, State, Federal	Ten years	Not started, lack of staff





6.8.7 – Wabaunsee County and Participating Jurisdictions Mitigation Actions

Table 6.10: Wabaunsee County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Wabaunsee County-1	Wabaunsee County is committed to continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Wabaunsee County-2	Regularly contact owners identified in high-risk flood areas and inform them of potential availability of flood insurance, in addition to other flood protection measures. (NFIP)	Flood	Emergency Manager	High	1,2	Staff time	Local, State, Federal	Continuous	In progress
Wabaunsee County-3	Collect educational materials on individual and family preparedness / mitigation measures for property owners, and display at both the library and routinely visited county offices.	All Hazards	Emergency Manager	High	3	Staff time	Local	Continuous	In progress
Wabaunsee County-4	Annually host a public hazards workshop for the residents of the jurisdiction, in combination with local festivals, fairs, or other appropriate events.	All Hazards	Emergency Manager	High	3	Staff time	Local	Continuous	In progress
Wabaunsee County-5	Construct FEMA-approved safe rooms and storm shelters in underserved areas of the county and care facilities.	Tornado, Windstorm	Emergency Manager	High	1,2	Staff time	Local	Continuous	Not started, lack of funding
Wabaunsee County-6	Educate residents about driving in winter storms and handling winter-related health effects.	Winter Storm	Emergency Manager	High	3	Staff time	Local	Continuous	In progress
Wabaunsee County-7	Promote and educate the jurisdiction's public and private sectors on potential agricultural terrorism and bio-terrorism issues that can severely impact the county and regional economies and develop and implement plans to address these issues.	Terrorism/ Agri-terrorism	Director County Health Department, Emergency Manager, Extension Officer	High	3	Staff time	Local, State, Federal	Five years	Not started, lack of staff
Wabaunsee County-8	Develop an annex to the Local Emergency Operations Plan for dam	Dam and Levee Failure	Emergency Manager	High	1,2	Staff time	Local	Five years	Not started, lack of staff





Table 6.10: Wabaunsee County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
	failure response and evacuation plans for high hazard dams in Wabaunsee County.								
Wabaunsee County-9	Research and recommend appropriate building codes for the County that include wind -resistant design techniques for new construction.	All Hazards	Emergency Manager	High	1,2	Staff time	Local	Five years	Not started, lack of staff
Wabaunsee County-10	Regularly calculate and document the amount of flood prone property that is preserved as open space to reduce flood insurance burden to the county. (NFIP).	Flood	Emergency Manager	High	1,2	Staff time	Local	Five years	Not started, lack of staff
Wabaunsee County-11	Research and recommend an ordinance/resolution to require tornado shelters for new major manufactured and/or mobile home parks with more than 10 mobile home spaces.	Tornado, Windstorm	Emergency Manager	High	1,2	Staff time	Local	Five years	Not started, lack of staff
Wabaunsee County-12	Examine the all current agreements within the county and assess the need to expand or update cooperative agreements for firefighting resources.	Wildfire	Fire Chief	High	4	Staff time	Local	Continuous	Not started, lack of staff
Wabaunsee County-13	Develop and implement a wildfire prevention/education program.	Wildfire	Fire Chief	Medium	3	Staff time and \$5,000	Local	Continuous	Not started, lack of staff and funding
Wabaunsee County-14	Evaluate the firefighting water supply resources within the County. This should include both fixed and mobile supply issues.	Wildfire	Fire Chief	Medium	4	Staff time	Local	Five years	Not started, lack of staff
Wabaunsee County-15	Contact owners of high hazard dams in Wabaunsee County and inform them of their responsibility to complete and provide EAPs to the Wabaunsee County Emergency Management Department as required by the KDA-DWR, Chief Engineer.	Dam and Levee Failure	Mill Creek WJD No 85 Manager, Emergency Manager	Medium	3,4	Staff time	Local	Five years	Not started, lack of staff
Alma-1	The City of Alma is committed to continued participation and compliance with the NFIP.	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	Not started, lack of staff





Table 6.10: Wabaunsee County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
Alma-2	Assess flood prone areas and implement flood reduction measures. (NFIP)	Flood	City Administrator	Medium	1,2	Staff time, per project cost	Local	Five years	Not started, lack of funding and staff
Alta Vista-1	Construct a community safe room.	Tornado, Windstorm	City Administrator	Medium	1,2	\$250,000	Local, State, Federal	Five years	Not started, lack of funding
Eskridge-1	The City of Eskridge is committed to continued participation and compliance with the NFIP.	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Eskridge-2	Assess flood prone areas and implement flood reduction measures. (NFIP)	Flood	City Administrator	High	1,2	Staff time	Local	Continuous	Not started, lack of funding and staff
Harveyville-1	The City of Harveyville is committed to continued participation and compliance with the NFIP.	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Harveyville-2	Assess flood prone areas and implement flood reduction measures. (NFIP)	Flood	City Administrator	High	1,2	Staff time	Local	Continuous	Not started, lack of funding and staff
Maple Hill-1	The City of Maple Hill is committed to continued participation and compliance with the NFIP.	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Maple Hill-2	Assess flood prone areas and implement flood reduction measures. (NFIP)	Flood	City Administrator	High	1,2	Staff time	Local	Continuous	Not started, lack of funding and staff
McFarland-1	The City of McFarland is committed to continued participation and compliance with the NFIP.	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
McFarland-2	Assess flood prone areas and implement flood reduction measures. (NFIP)	Flood	City Administrator	High	1,2	Staff time	Local	Continuous	Not started, lack of funding and staff





Table 6.10: Wabaunsee County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
McFarland-3	Develop and submit an EAP for the High Hazard Dam owned by the city.	Dam and Levee Failure	City Administrator	Medium	1,2	Staff time	Local	Five years	Not started, lack of staff
Paxico-1	The City of Paxico is committed to continued participation and compliance with the NFIP .	Flood	NFIP Administrator	High	1,2	Staff time	Local	Continuous	In progress
Paxico-2	Assess flood prone areas and implement flood reduction measures. (NFIP)	Flood	City Administrator	High	1,2	Staff time	Local	Continuous	Not started, lack of funding and staff
USD #329-1	Construct safe rooms in all USD #329 schools.	Tornado, Windstorm	Superintendent	High	1,2	\$1,000,000	Local, State, Federal	Three years	Not started, lack of funding
USD #329-2	Purchase and install backup generators in USD #329 schools.	Utility/ Infrastructure Failure	Superintendent	Medium	1,2	\$200,000	Local, State, Federal	Five years	Not started, lack of funding
USD #329-3	Assess elevations and water flow in the district to qualify the benefit of flood control projects in the District.	Flood	Superintendent	Medium	1,2	\$45,000	Local, State, Federal	Five years	Not started, lack of funding
USD #329-4	Purchase flood insurance for the school facilities located in the floodplain.	Flood	Superintendent	Medium	1,2	Staff time	Local	Five years	Not started, lack of funding
USD #330-1	Construct safe rooms in USD #330 schools.	Tornado, Windstorm	Superintendent	Low	1,2	\$1,000,000	Local, State, Federal	Five years	Not started, lack of funding
Rural Water Districts (all)-1	Replace water lines in jeopardy of being damaged due to expansive soils.	Expansive Soils	Operator	High	1,2	\$350,000	Local, State, Federal	Five years	Not started, lack of funding
Rural Water Districts (all)-2	Purchase and install automatic switchover on all booster station generators.	Multi-Hazard	Operator	Medium	1,2	\$10,000 each	Local, State, Federal	Five years	Not started, lack of funding
Rural Water Districts (all)-3	Purchase and install automatic switchover on all well generators.	Multi-Hazard	Operator	Medium	1,2	\$10,000 each	Local, State, Federal	Five years	Not started, lack of funding
Bluestem-1	Enhance and upgrade all power lines, utility poles and distribution line	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$8,000,000	Local, State, Federal	Ten years	Not started, lack of funding





Table 6.10: Wabaunsee County Mitigation Actions

Action Identification	Description	Hazard Addressed	Responsible Party	Overall Priority	Goal(s) Addressed	Estimated Cost	Potential Funding Source	Proposed Completion Timeframe	Current Status
	equipment to better withstand all hazard events.								
Flint Hills-1	Complete upgrades and enhancements of existing power lines to protect infrastructure and future exposure to natural hazards.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$4,000,000	Local, State, Federal	Ten years	Not started, lack of funding
Kaw Valley-1	Enhance and upgrade all power lines, utility poles and distribution line equipment to better withstand all hazard events.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$5,000,000	Local, State, Federal	Ten years	Not started, lack of funding
Lyon-Coffey - 1	Complete upgrades and enhancements of existing power lines to protect infrastructure and future exposure to natural hazards.	Utility/ Infrastructure Failure	Assistant Manager	High	1,2	\$2,000,000	Local, State, Federal	Ten years	Not started, lack of funding





6.9 –Mitigation Actions No Longer Under Consideration

For this plan update, members of the MPC and participating jurisdictions were asked to consider if all previous mitigation actions were still viable. Due to the thorough nature of the review, and the comprehensive updating of mitigation actions to meet both the needs of the participating jurisdictions and FEMA planning requirements, many actions were either modified or removed from consideration. A full comparison of jurisdictional actions may be completed by comparing the actions detailed in this plan against the actions from the 2014 regional hazard mitigation plan.

6.10 – Action Implementation and Monitoring

44 CFR 201.6 (c)(3)(iii) An action plan describing how the actions identified in paragraph (c)(3)(ii) of this section 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 benefit review of the proposed projects and their associated costs.

Kansas Region I and relevant participating jurisdictions are responsible for implementing their identified mitigation action(s). To foster accountability and increase the likelihood that actions will be implemented, every proposed action is assigned to an action champion. In general:

- The identified champion will be responsible for tracking and reporting on action status.
- The identified champion will provide input on whether the action as implemented is successful in reducing vulnerability.
- If the action is unsuccessful in reducing vulnerability, the identified champion will be tasked with identifying deficiencies and additional required actions.

Additionally, each action has been assigned a proposed completion timeframe to assist in tracking the continued viability of the action if not completed, and to assist participating jurisdictions in potentially programming Funding to complete the actions.

In general, each participating jurisdiction, along with the MPC, is responsible for monitoring the progress of mitigation activities and projects. To facilitate the tracking of mitigation actions the Kansas Region I MPC and KDEM, in conjunction with participating jurisdictions, will compile a list of projects funded and completed. Additionally, the MPC and participating jurisdictions will be solicited annually to provide information on any other mitigation projects that were not funded through hazard mitigation grants for tracking and update purposes.

To track mitigation projects from initiation to closeout, participating jurisdictions will use a project tracking methodology that includes, at a minimum, the following information:

- Applicant data
- Grant identifier
- Award date





- Awarded contractor
- Period of Performance
- Total project cost, including local share of project
- Quarterly Reports

Upon completion of a project the awarded participating jurisdiction will conduct a closeout site visit to:

- Review all project documents
- Review all procurement documents and contracts
- Photograph completed project

Project closeout packages will generally be submitted no more than 90 days after a project has been completed, and should include the following:

- All available documentation
- Photographs of completed project
- Materials, labor and equipment documentation
- Close-out certification

6.11 – Jurisdictional Compliance with NFIP

44 CFR 201.6 (c)(3)(ii) All plans approved by FEMA after October 1, 2008, must also address the jurisdiction's participation in the NFIP, and continued compliance with NFIP requirements, as appropriate.

Participating jurisdictions are committed to continued involvement and compliance with the **NFIP**. To help facilitate compliance, each participating jurisdiction:

- Adopts Floodplain regulations through local ordinance
- Enforces floodplain ordinances through building restrictions as detailed in relevant ordinance
- Regulates new construction in Special Flood Hazard Areas as outlined in their floodplain ordinance
- Utilizes FEMA FIRMs
- Monitors floodplain activities

Key to achieving across the board reduction in flood damages is a robust community assistance, education and awareness program. As such, Kansas Region I and its participating jurisdictions will continue to develop both electronic (including social media) and in person outreach activities.

Specific mitigation actions supporting regional commitment to both the NFIP and potential CRS application and compliance were identified above with a bold type **NFIP** in the subsequent mitigation action sections.





6.12 –Primary Mitigation Action Funding Sources

It is generally recognized that mitigation actions help communities realize long term savings by preventing future losses due to hazard events. However, many mitigation actions are beyond the budgetary capabilities a jurisdiction and Funding assistance, often in the form of grants, may be required. This following table provides a general description of some of the primary avenues available to jurisdictions to defray the cost of implementing mitigation actions.

Table 6.11: Primary Hazard Mitigation Funding Mechanisms

Program	Funding Agency	Funding Match Requirement	Program Description
Community Development Block Grant Program	Department of Housing and Urban Development	N/A	Program is a competitive grant process through which about half of the Funding goes to support the development of community facilities and water and sewer projects. grants in four categories, community improvement, urgent need, Kansas Small Towns Environment Program and economic development.
Federal Public Assistance	FEMA	Varied	Provides Funding used to restore the parts of a structure that was damaged during a disaster. The restoration must provide protection from subsequent events.
Federal Individual Assistance	FEMA	Varied	Provides assistance for qualified homeowners/renters whose primary residence was damaged or destroyed in a declared designated area.
Flood Mitigation Assistance	FEMA	Varied	Program provides funding to States, Territories, federally recognized tribes and local communities for projects and planning that reduces or eliminates long-term risk of flood damage to structures insured under the NFIP. Funding is also available for management costs.
Hazard Mitigation Grant Program	FEMA	25%	Program is to ensure that the opportunity to take critical mitigation measures to reduce the risk of loss of life and property from future disasters is not lost during the reconstruction process following a disaster. Funding is available, when authorized under the Presidential Major Disaster Declaration, in the areas of the state requested by the governor. The amount of Funding available to the applicant is based upon the total federal assistance provided by FEMA for disaster recovery under the major disaster declaration.
Pre-Disaster Mitigation Program	FEMA	25%	Program is designed to assist states, territories, Indian tribal governments, and local communities to implement a sustained pre-disaster natural hazard mitigation program to reduce overall risk to the population and structures from future hazard events, while also reducing reliance on federal Funding from future major disaster declarations.

6.13 – Additional Hazard Mitigation Funding Mechanisms

A wide variety of federal and state agencies offer mechanisms for funding mitigation projects. A thorough, but by no means complete, list of potential mitigaion funding sources are detailed in the following table along with a brief program description.





Table 6.12: Additional Potential Hazard Mitigation Funding Mechanisms

Department	Program	Program Description
FEMA	Fire Management Assistance Grant Program	Provides for the mitigation, management, and control of fires on publicly or privately-owned forests or grasslands. The process is initiated when the state requests federal assistance for an event where the threat of major disaster exists for either single fires or numerous small fires.
FEMA	Risk Mapping, Assessment, and Planning (Risk Map)	The Risk MAP strategy incorporates floodplain management with hazard mitigation by using tools such as DFIRMs, HAZUS reports, and risk assessment data to deliver quality data that increases public awareness and leads to action to reduce risk to life and property.
National Oceanic and Atmospheric Administration National Weather Service (NOAA NWS)	StormReady Program	StormReady is a voluntary program that was developed by NOAA NWS to help communities better prepare for and mitigate effects of all types of severe weather from tornadoes to flooding. The program encourages communities to take a new, proactive approach to improving local hazardous weather operations by providing emergency managers with clear-cut guidelines on how to improve their hazardous weather operations.
Mutual Aid	Kansas Water, Wastewater, Gas and Electric Utility Mutual Aid Program (KSMAP)	KSMAP has been developed to serve as the mutual aid program for Kansas utilities to help with provision of equipment, materials and personnel to assist in the restoration and continuation of utility service for those utilities needing assistance. The project is a joint effort of Kansas Municipal Utilities, Kansas Rural Water Association, the Kansas Section – American Water Works Association, the Kansas Water Environment Association, Kansas Corporation Commission, Kansas Department of Health & Environment and the Kansas Division of Emergency Management.
FEMA	Individual & Households, Other Needs Assistance (ONA) Program	The ONA program provides financial assistance to individuals or households who sustain damage or develop serious needs because of a natural or man-made disaster. The funding share is 75% federal funds and 25% state funds. The program gives funds for disaster-related necessary expenses and serious needs, including personal property, transportation, medical and dental, funeral, essential tools, flood insurance, and moving and storage. The current maximum allowable amount for any one disaster to individuals or families is \$25,000.
Kansas Department of Agriculture – Division of Conservation (KDA-DoC)	Multipurpose Small Lakes Program	Provides state cost-share assistance to a government entity for the construction or renovation of a dam for flood control and water supply and/or recreational purposes. It requires a general plan of works and a local nonpoint source pollution control plan. https://agriculture.ks.gov/divisions-programs/division-of-conservation/flood-control-and-lakes-programs
(KDA-DoC)	State Assistance to Watershed Dam Construction	Provides state cost-share assistance to a government entity for the construction or renovation of a dam for flood control and water supply and/or recreational purposes. It requires a general plan of works and a local nonpoint source pollution control plan.
(KDA-DoC)	State Assistance to Watershed Dam Construction	Provides cost-share assistance to organized watershed districts and other special purpose districts for the implementation of structural and nonstructural practices that reduce flood damage. Structural





Table 6.12: Additional Potential Hazard Mitigation Funding Mechanisms

Department	Program	Program Description
		practices must be approved by the chief engineer of the Division of Water Resources. https://agriculture.ks.gov/divisions-programs/division-of-conservation/flood-control-and-lakes-programs
(KDA-DoC)	Water Resources Cost Share Program	Provides state cost-share assistance to landowners for the establishment of enduring water conservation practices to protect and improve the quality and quantity of Kansas water resources. https://agriculture.ks.gov/divisions-programs/division-of-conservation/financial-assistance
(KDA-DoC)	Water Conservation Program	Provides financial incentives for voluntary retirements of private water rights in high priority areas. For more information about WRAP enrollment opportunities, please contact
Kansas Department of Agriculture – Division of Water Resources (KDA-DWR)	Community Assistance Program State Support Services Element	This program enhances the State’s capability to provide floodplain management information and technical assistance to help local officials in NFIP and CRS participating communities. It also encourages nonparticipating communities to join the NFIP and CRS.
KDA-DWR	Floodplain Management Program	Program provides technical assistance for local, state and federal floodplain management, including managing the NFIP and floodplain ordinances and regulations adopted by city and county governments. https://agriculture.ks.gov/divisions-programs/dwr/floodplain/flood-safety-2
Kansas Department of Commerce (KDC)	Community Service Tax Credit	Program offers Kansas tax credits to for nonprofit organizations for contributions to approved projects. Projects eligible for tax credit awards include community service, crime prevention and health care https://www.kansascommerce.gov/programs-services/community-development-assistance/community-service-tax-credit-program/
Kansas Department of Health and Environment—Bureau of Environmental Remediation (KDHE-BER)	Abandoned Mine Land Program	Program provides for the remediation of sites that are an immediate threat to the health and safety of the public. http://www.kdheks.gov/mining/abandoned_mineland.htm
Kansas Department of Commerce (KDC)	CDBG Urgent Need Grant Abandoned Mine Land Program	This funding is intended to resolve emergency issues created by a severe disaster that pose a threat to the health and safety of citizens. https://www.kansascommerce.gov/programs-services/community-development-assistance/community-development-block-grant-program/urgent-need/
KDHE-BER	Kansas Brownfields Program	Programs to assist communities with the redevelopment of brownfields properties http://www.kdheks.gov/brownfields/index.html
KDHE-BER	State Water Plan Contamination Remediation Orphan Sites Program	Program provides Funding for the evaluation, monitoring, and remediation of contaminated groundwater or surface water sites and provides Funding to supply alternate water sources as an emergency http://www.kdheks.gov/ars/swp/index.html
Kansas Department of Transportation	Transportation Alternative Program	This is an annual competitive Federal Transportation Alternatives program that can be used for transportation enhancement activities that include: Vegetation Management - improvement of roadway safety; prevention of invasive species; providing erosion control.





Table 6.12: Additional Potential Hazard Mitigation Funding Mechanisms

Department	Program	Program Description
		<p>Stormwater Mitigation - pollution prevention and abatement activities to address stormwater management; water pollution prevention related to highway construction or due to highway runoff. Wildlife Management - reduction of vehicle-caused wildlife mortality; restoration and maintenance of connectivity among terrestrial or aquatic habitats.</p> <p>http://www.ksdot.org/bureaus/burtransplan/TransAlt.asp</p>
Kansas Forest Service (KFS)	Community Forestry Program	<p>Program provides assistance, education, and support to communities and municipalities in organizing urban and community forestry programs, identifying resource needs, setting priorities of work, and training city employees.</p> <p>https://www.kansasforests.org/community_forestry/</p>
KFS	Rural Forestry Program	<p>Professional foresters provide on-site forest management and agro-forestry analysis and recommendations through inventory of forests, woodlands and windbreaks.</p> <p>https://www.kansasforests.org/rural_forestry/</p>
KFS	Firewise Program	<p>The Kansas Firewise program offers prevention materials for homeowners to reduce the threat of wildland fire in rural and high-risk areas.</p> <p>https://www.kansasforests.org/fire_management/fireprevention.html</p>
KFS	Forest Health Program	<p>Program monitors the impacts of insects, diseases, drought, flooding and other health issues in forests, woodlands, windbreaks and conservation tree plantings by providing diagnosis and control recommendations and mitigation and planning for Emerald Ash Borer, Asian Bush Honeysuckles and other invasive species.</p> <p>https://www.kansasforests.org/forest_health/</p>
KFS	Landowner Education	<p>Provides information and education to farmers regarding the benefits of good forest management. This includes information about federal cost share practices including the Environmental Quality Incentives Program, Conservation Reserve Program, and the Riparian and Wetland Protection Program.</p> <p>https://www.kansasforests.org/forest_health/</p>
KFS	Rural Fire Protection	<p>Program provides fire support services to rural fire departments, including wildfire training, Smokey Bear fire prevention materials, and the acquisition and distribution of excess military vehicles for conversion to firefighting units.</p>
Kansas Highway Patrol	Federal Preparedness Grant Program	<p>Through this program, the Department of Homeland Security/FEMA provides Funding to states to prevent, respond to, and recover from acts of terrorism by enhancing and sustaining capabilities.</p> <p>https://www.kansashighwaypatrol.org/</p>
Kansas State Fire Marshal's Office	Fire Prevention Program	<p>Program focuses on structural inspection to ensure compliance with the Kansas Fire Prevention Code.</p>
Kansas State Fire Marshal's Office	Hazardous Materials Program	<p>Program provides training, planning, and analysis related to hazardous materials accidents/incidents and WMD events to help local facilities and local, state, and federal agencies before an event occurs.</p>





Table 6.12: Additional Potential Hazard Mitigation Funding Mechanisms

Department	Program	Program Description
Kansas Water Office (KWO)	Public Information and Education	This public education program provides information on water resource issues to the general public through publication of articles, pamphlets, news reports, etc. It also provides support for environmental education and local leadership development programs. https://www.kwo.ks.gov/
KWO	Stream Gauging Program	State financial assistance is provided for the operation of selected gauging stations operated by the U.S. Geological Survey. https://www.kwo.ks.gov/projects/stream-gaging-network
KWO	Technical Assistance to Water Users	Program provides technical assistance to municipalities, irrigators, and other groups to assist in the reduction of water use and improve water use efficiency. (For assistance contact KWO at 785-296-3185.
KWO	Water Resource Planning	As the water planning, policy, coordination and marketing agency for the state the Kansas Water Office works to maintain a comprehensive State Water Plan for the management, conservation and development of the water resources of the state. This includes the collection and compilation of information pertaining to climate, water and soil as related to the usage of water for agricultural, industrial and municipal purposes and the availability of water supplies in the several watersheds of the state; development of a state plan of water resources management, conservation and development for water planning areas; the development and maintenance of guidelines for water conservation plans and practices; and The establishment of guidelines as to when conditions indicative of drought exist. https://www.kwo.ks.gov/about-the-kwo/kwo

