

Hazard Mitigation Plan Community of Lyon County, KS

Section 5 Mitigation Strategy

5.1 Summary of Mitigation Goals

Following section provides an overview of the Mitigation Goals and Objectives:

This section of the Lyon County Mitigation Plan describes the goals and objectives established by the Planning Team for the mitigation planning and programming intended to be accomplished. The section also identifies the desired scheduling of the future planning efforts of the Planning Team as well as the desired schedule for implementation of proposed mitigation initiatives by the participating jurisdictions and organizations.

Goals and Objectives

The Lyon County Mitigation Planning Team has established a set of goals and objectives to guide its work in the development of this plan. The goals and objectives help to focus the efforts of the group in the mitigation planning effort to achieve an end result that matches the community's unique set of needs, interests and desires.

The goals and objectives selected by the Planning Team for the planning process are those displayed in the attached list. The goal statements are the overall endpoint that the Planning Team would like to have the community eventually reach, perhaps by the year 2022.

Each goal statement has one or more objectives that provide a more specific framework for actions to be taken by the Planning Team and its participants. The objectives define actions or results that can be placed into measurable terms by the Planning Team.

The objectives selected by the Planning Team also create a framework for guiding the development of proposed mitigation initiatives for incorporation into the plan. If feasible, the planning participants have attempted to associate a proposed objective with one of the objective statements, and thereby with the corresponding goal. Proposing mitigation initiatives that are consistent with the selected objectives is a principal mechanism for the Planning team participants to achieve the stated goals for the mitigation planning program.

As the Lyon County Local Hazard Mitigation Plan is reviewed and updated by the Planning Team, the goals and supporting objective statements are also reviewed to ensure they are still

applicable to meeting the unique needs, interests and desires of the community.

Compilation of Proposed Mitigation Initiatives

This section of Lyon County Local Mitigation Plan contains the compilation of the proposed mitigation initiatives that have been formulated as the result of the planning efforts by the Planning Team. These mitigation initiatives form the fundamental mechanism for the implementation of the local mitigation plan. That is, when the resources and opportunity to do so become available, the sponsoring organization implements an initiative to address through the mitigation planning process. After each successful implementation of an initiative, the benefited community will become that much more resistant to the impacts of future disasters.

Initiatives Incorporated into the Mitigation Plan

The compilation is provided in five formats. The first is a summary of all the mitigation initiatives currently proposed by participating agencies and organizations for future funding and implementation. This list is the complete compendium of proposed, specific mitigation actions incorporated into the mitigation plan based on the analytical process undertaken by the participating jurisdictions and organizations.

It is important to note that this report lists the proposed initiatives by their "sponsoring organization." Under the Mitigation approach used for development of this plan, the sponsoring organization is the group designated to implement the specific initiative, should the resources or opportunities to do so become available. Under the Mitigation approach, every single mitigation initiative incorporated into the plan is associated with a sponsoring organization that has the responsibility, authority, or capability to implement the initiative at the appropriate time.

Benefit-to-cost Ratio

A key analytical measure used by the Lyon County Planning Team is the benefit to cost ratio, which expresses the estimated benefits, in dollars, in comparison to the estimated costs to implement and maintain the proposed mitigation initiative. For an initiative to be considered "cost effective," the dollar value of the benefits derived needs to exceed the costs to implement and maintain the initiative, or, in other words, the benefit to cost ratio should be greater than 1.0. The mitigation software used by the Lyon County Planning Team has a simplified, straightforward approach to calculating a benefit to cost ratio that is considered suitable for planning purposes and the development of a local mitigation plan. A more sophisticated methodology for calculating a benefit to cost ratio is likely to be necessary at the time of actual implementation, applying to state or federal agencies for funding, or for the design and construction stage of development. It should be noted that some proposed mitigation

activities have little or no cost associated with them. The web site www.mitigationplan.com is not capable of a benefit to cost ratio for a project with a cost of zero. There is no cost to join the National Flood Insurance Program but the benefit for joining NFIP is high.

The Mitigation process for calculating a simple benefit to cost ratio begins with the sponsor of a proposed mitigation initiative estimating the direct and indirect costs of the "worst case" disaster scenario that the mitigation initiative is intended to address. If the initiative were to be implemented, these are the future costs that would be avoided, or, in other words, the "benefits" derived from implementing the initiative. Both direct costs of the disaster scenario are considered, such as structural damages, as well as indirect costs, such as lost wages. The total of the direct and indirect costs, are then divided by the predicted life of the initiative, in years. This then gives the dollar benefits of the project on an annual basis. In the simplified Mitigation approach, no additional attempts to refine the estimates are made, such as applying a discount rate or calculating benefits in present day dollars. The objective of this analysis is to quickly and easily derive a simple annual economic benefit value that will be useful in the mitigation planning process to differentiate among the economic benefit value of different proposals.

The cost side of the benefit to cost ratio is estimated in the Mitigation approach by determining the estimated cost to initially implement the proposals, such as initial construction cost for a "bricks and mortar" project, or the development costs for a training program. This value is then divided by the predicted life of the initiative, in years, to give a simple annual cost to implement the proposal. To this amount is then added any annual costs or annual implementation costs. Next, the approach then considers any "cost impact" of the proposal, or the costs that would be incurred by others in the community due to implementation of the initiative, such as the economic effect on new construction of adopting a more stringent building code. The cost impact figure is also annualized by the life of the project, and then any annual cost impact values, such as an annual user fee or tax, is added to give a total annual cost impact. Overall, the Mitigation program has now calculated an annual cost to implement the proposal, including both initiative and annual implementation costs and cost impacts. By dividing the annual costs of the "benefits" of the proposal by the annual cost and cost impact necessary to implement the proposal, a "preliminary benefit to cost ratio" is estimated. Again; a simplified approach has been used in order to quickly and easily derive a benefit to cost ratio that is suitable for planning purposes and for the local mitigation planning process.

Nevertheless, the Mitigation approach recognizes that the preliminary benefit to cost ratio only considers the economic benefits or cost of a proposal. The preliminary ratio provides a

simplified calculation of whether a proposal would be economically justifiable, based on whether the benefit-to-cost ratio is greater than one. If it is greater than one, the economic benefits of implementing the project exceed the economic costs of doing so.

However, the Mitigation approach used by the Lyon County Planning Team recognizes that there will be mitigation initiatives proposed to address public health and safety issues, or for the protection of valuable or cultural or environmental resources. These values cannot be readily defined as dollar amounts. Therefore the Mitigation program applies "multipliers" to the preliminary benefit to cost ratio to account for these factors. The first multiplier is to account for health and safety benefits of a proposal, and the second is to consider the protection of valuable environmental resources that would be derived from implementation of an initiative. The two multipliers are applied in sequence to the preliminary benefit to cost ratio, beginning with the safety/health multiplier.

The multipliers increase the preliminary benefit to cost ratio proportionally to the health/safety or resource protection value of the proposal. For example, in this way, retrofitting of a hospital or museum roof to withstand high winds, which may not have a preliminary benefit to cost ratio greater than one, and hence not be economically justifiable, can, after application of the appropriate multipliers, be seen as justified due to the safety/health or cultural resource benefit it will impart. After application of these multipliers, the Mitigation program refers to the derived ratio as the "final benefit to cost ratio."

It is emphasized that the use of these multipliers, as well as the entire Mitigation approach to deriving a benefit to cost ratio, is only one of many ways a benefit to cost ratio can be formulated. Nevertheless, the important issue is that, through the use of software program, all participants in the planning process are utilizing the same technique, criteria and approach to develop a final benefit to cost ratio for every proposed mitigation initiative included in the local mitigation plan. This allows the different proposals in the plan to be compared directly to each other based on the benefit to cost ratio developed under a common approach, which is suitable basis at this planning stage in the development and assessment of proposed mitigation initiatives.

It is also important to emphasize that this approach to calculating a benefit to cost ratio is not that used by any specific state, federal or other agency or organization. The approach is intended to be quickly and easily used during the mitigation planning process to support the subsequent comparison of all the proposals during the planning regardless of their type, sponsoring organization, or jurisdiction to be benefited. When the sponsor of the proposed mitigation initiative actually applies for implementation funding from one of these agencies and

organizations, and if calculation of a benefit to cost ratio is part of the application process, then the sponsor will need to recalculate the ratio using the approach required by the prospective funding agency.

The report attached to this section, "Initiative by Priority Score and Benefit to Cost Ratio," provides both the preliminary and final benefit to cost ratio for each initiative, as calculated by the Mitigation software program. Remember the Mitigation software program does not include some projects with no costs.

Next steps for the Lyon County Mitigation Plan

Lyon County has worked hard to create a Mitigation Plan that is comprehensive, consistent and user-friendly for everyone to use. The department of Emergency Management in Lyon County has worked hard to include as many people as possible, directly and indirectly involved in emergency preparedness and response. The LEPC planning team will continue to meet quarterly. All aspects of disaster planning will be discussed at those meetings. This plan may not be discussed at all at some meetings. At other meetings when updates to this plan are needed that may be the main discussion topic.

5.2 Mitigation Goals

1. Lyon County Goal #1

Goal Description: The following section provides an overview of the Mitigation Goals and Objectives:

The following list of goals and objectives are the complete and entire list that were suggested by all the jurisdictions. No suggested goals or actions were left out of the plan.

Goal #1:

Increase Lyon County's internal capabilities to mitigate the effects of natural hazards.

Objectives: Objective 1.1 - Maintain current county status in the National Flood Insurance Program (NFIP) and the FEMA Community Rating System (CRS) to assist in future reductions to the overall flood insurance burden of the county.

Objective 1.2 - Enhance the county's capability to conduct hazard risk assessments demonstrate funding needs, and track mitigation activities throughout the county.

Objective 1.3 - Increase communications effectiveness in an emergency. (South Radio Tower Project.)

Objective 1.4 - Ensure that current emergency services are adequate to protect public health and safety.

Duration: Short-Term

2. Lyon County Goal #2

Goal Description: Enhance existing or design new County policies that will reduce the potential damaging effects of hazards without hindering other community goals

Objectives: Objective 2.1 - Increase the county's control over development in the floodplain to lower the number of people and property at risk to future flood conditions.

Objective 2.2 - Preserve the natural and beneficial functions of the county's floodplain along the Neosho and Cottonwood Rivers. Preserve beneficial agricultural uses and natural wildlife preservation in the river floodplain areas. This will be accomplished by discouraging growth in environmentally sensitive areas and by following FEMA guidelines before issuing floodplain development permits.

Objective 2.3 - Promote use of wind-resistant design techniques for new construction. This policy could limit damage caused by high winds and reduce the amount of wind-borne debris.

Duration: Long-Term

3. Lyon County Goal #3

Goal Description: Protect Lyon County's most vulnerable populations, buildings and critical facilities through the implementation of cost-effective and technically feasible mitigation projects.

Objectives: Objective 3.1 - Maximize the use of available hazard mitigation grant programs to protect the County's most vulnerable populations and structures.

Objective 3.2 - Ensure that vital critical facilities are protected from the effects of natural hazards to the most cost effective extent possible.

Duration: Short-Term

4. Lyon County Goal #4

Goal Description: Protect public health, safety and welfare by increasing the public awareness of existing hazards and by fostering both individual and public responsibility in mitigating risks due to those hazards.

Objectives: Objective 4.1 - Increase the level of knowledge and awareness for Lyon County residents on the hazards that routinely threaten the area.

4.2 - Educate property owners on the affordable, individual mitigation and preparedness measures that can be taken to prepare for the next hazard event.

Duration: Short-Term

Following section details jurisdiction specific activity related to the Goals provided for the Multi-Jurisdictional Area:

Admire, City of

1. Goal #1

Goal Description: Increase the city's ability to respond to disaster events. Ensure that minimum services are available for public health safety and welfare.

Objectives:

Objective 1.1

Ensure basic city services for providing sanitation, heating and electricity.

Duration: Short-Term

2. Goal #2

Goal Description: Public health and safety through providing shelter

Objectives:

Objective 1.1

Provide emergency shelter

Objective 1.2
Provide temporary shelter for displaced people.

Objective 1.3
Provide suitable location for Incident Command center location close to Admire.

Duration: Long-Term

Allen, City of

1. Goal #1

Goal Description: Enhance ability to protect citizens through early warning of events.

Objectives:

Objective 1.1
Increase warning time for hazards.

Objective 1.2
Protect vulnerable populations.

Duration: Short-Term

Americus, City of

1. Goal #1

Goal Description: Protect public health safety and welfare through proper planning.

Objectives:

Objective 1.1
Increase coordination and efficiency of disaster responders.

Objective 1.2
Enhance ability of city to conduct hazard risk assessments and to demonstrate funding needs.

Objective 1.3
Increase communications effectiveness.

Objective 1.4

Maintain Status in National Flood Insurance Program.

Duration: Long-Term

Bushong, City of

1. Goal #1

Goal Description: Protect public health and safety.

Objectives:

Objective 1.1
Provide emergency shelter.

Objective 1.2
Provide temporary shelter for displaced people.

Duration: Long-Term

2. Goal #2

Goal Description: Increase ability to protect public safety

Objectives:

Objective 1.1
Increased warning of disaster events will increase safety.

Objective 1.2
Maximize the use of available hazard mitigation grant programs to protect the city's most vulnerable population.

Duration: Long-Term

Emporia, City of

1. Goal #1

Goal Description: Increase the city's internal capability to mitigate the affects of hazards.

Objectives:

Objective 1.1
Enhance Emporia and Lyon County communications effectiveness.

Objective 1.2
Ensure that current emergency services are adequate to protect public health and safety.

Objective 1.3
Maintain Status in the National Flood Insurance Program.

Duration: Short-Term

Hartford, City of

1. City of Hartford Goal #1

Goal Description: Protect public health and safety within the city.

Objectives:

Objective 1.1
Increase warning time for hazards.

Objective 1.2
Protect vulnerable populations.

Objective 1.3
Join the National Flood Insurance Program.

Duration: Short-Term

2. City of Hartford Goal #2

Goal Description: Protect public welfare and ensure critical services are provided.

Objectives:

Objective 1.1
Provide for sanitation, heating and electrical services in time of need.

Duration: Short-Term

Neosho Rapids, City of

1. Goal #1

Goal Description: Protect critical services

Objectives:

Objective 1.1
Prevent loss of necessary services.

Duration: Long-Term

2. Goal #2

Goal Description: Protect the city's vulnerable buildings and populations.

Objectives:

Objective 1.1
Ensure public safety.

Objective 1.2
Ensure public facilities are protected from the affects of hazards.

Objective 1.3
Maximize the use of available hazard mitigation grant programs to protect populations and critical facilities.

Objective 1.4
Join the National Flood Insurance Program. Make flood insurance available in Neosho Rapids.

Duration: Long-Term

Olpe, City of

1. City of Olpe Goal #1

Goal Description: To provide for public health, safety and welfare for Olpe.

Objectives:

Objective 1.1
Ensure public safety

Objective 1.2
Ensure public facilities are protected from the effects of hazards.

Objective 1.3
Maximize the use of available hazard mitigation grant programs to protect populations and critical facilities.

Objective 1.4
Provide critical services for public welfare

Duration: Long-Term

Reading, City of

1. Goal #1

Goal Description: Provide for public health safety and welfare for citizens of Reading by increasing the public awareness and by fostering both individual and public responsibility in mitigating risks due to those hazards.

Objectives:

Objective 1.1
Increased warning time to increase safety for all hazards.

Objective 1.2
Ensure warning systems function as needed.

Duration: Long-Term

2. Goal #2

Goal Description: Emergency Services. Improve the ability of emergency service providers to respond to events and aid in community recovery efforts.

Objectives:

Objective 2.1
Increased training for local emergency responders.

Objective 2.2
Provide necessary equipment for emergency responders.

Duration: Long-Term

5.3 Mitigation Actions/Projects

This section serves to identify proposed projects in the community.

The Benefit-Cost Ratio uses the following equation to compare cost-effectiveness of mitigation projects.

Where B is the Benefit-Cost Ratio of the project, p is the mitigation effectiveness factor of the ith hazard, E is the economic loss of the ith Hazard, D is the structural damage loss of the ith hazard, and P is the total cost of the project.

Lyon County Community Projects

Lyon County Project: Lyon County Project: #1

Name: Public Outreach Project

Description: A public outreach about flooding and other hazards.

Plan for Implementation and Administration: A one page two-sided letter about hazards, flood insurance, and County programs. This letter will be sent to every property owner in Lyon County. These outreach letters can be sent out with regularly mailed property tax statements from the County Appraiser's office. This method eliminates the cost of separate envelopes and postage. If funding can be found this will be completed in a year. This project may have to be completed in phases over a three to four year period with current funding.

This will assist in meeting Goal #4, Objectives 4.1 and 4.2.

Lead Agency: Lyon County Floodplain Manager

Local Priority: Low

Total Cost: \$2,104

Calculated BC Ratio: 311.0117

Funding Agency: Lyon County

Funding Description: A request for funding from the County Commissioners was denied. There is \$500 for public outreach in the budget for Zoning. This money will be used to fund a partial outreach program each year until the end goal is achieved.

Hazards Mitigated:

1 . Dam Failure: 100%

2 . Flooding/Flash Flooding: 100%

3 . Tornado: 50%

Lyon County Project: Lyon County Project #2

Name: Acquisition, Relocation or Elevation

Description: Acquire and relocate properties in hazard areas. This will primarily mean flood areas but could mean other areas such as dam breach inundation areas. When relocation is not possible, elevate a structure above levels of inundation.

Plan for Implementation and Administration: This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program. Lyon County will work with willing property owners in hazardous areas.

This will assist with Goal #2, Objectives 2.1 and 2.2. Goal #3, Objectives 3.1 and 3.2.

Lead Agency: Floodplain Managers for City of Emporia's ETJ/Lyon County

Local Priority: High

Total Cost: \$410,000

Calculated BC Ratio: 0.487331

Funding Agency: Grants

Funding Description: The estimated cost to buy out one critical facility alone is given. Lyon County does not have funds available for a project this size.

Hazards Mitigated:

1 . Dam Failure: 100%

2 . Flooding/Flash Flooding: 100%

Lyon County Project: Lyon County Project: #3

Name: National Flood Insurance Program

Description: Remain in NFIP.

Plan for Implementation and Administration: Lyon County will administer all the regulations required to remain in good standing with FEMA and the NFIP. The Lyon County Resolution for floodplain management is the tool that will be used to accomplish this goal.

See Goal #1, Objective 1.1.

Lead Agency: Lyon County Floodplain Manager

Local Priority: High

Total Cost: It is free to join the NFIP. Administrative costs will be absorbed by the Zoning Department. There will be no costs associated with this project. Due to limitations of the software created for www.mitigationplan.com a cost to benefit ratio can not be created for a project with no costs. Clearly the benefit ratio is very high.

Hazards Mitigated: Flood/Flash Flood/Levee Breach 100%

Dam Failure: 50%

Admire, City of Community Projects

Admire, City of Project: Project #1

Name: Maintain Critical Services

Description: Purchase a portable generator. A generator would be used to power lift stations or community shelters when power is interrupted for extended periods of time, due to an ice storm, thunderstorm or tornado.

Plan for Implementation and Administration: An 11kw diesel generator at GoPower.com was listed for \$6,999. The City of Admire does not have money available for this without an outside source of funding. This will require the pursuit of grant funding sources. Grants that require matching funds may not be possible without a soft money match program.

This will assist in meeting Goal #1 Objective 1.1

Lead Agency: City Council

Local Priority: Medium

Total Cost: \$7,000

Funding Agency: City of Admire

Funding Description: This could become a joint project between City of Admire and Fire District #2.

Hazards Mitigated:

1 . Severe Thunderstorms/Lightning/High Winds: 100%

2 . Tornado: 100%

3 . Winter Storm (Snow, Ice, Sleet): 100%

Admire, City of Project: Project #2

Name: Shelter from Storm

Description: Renovate nearby fire station into a multi-functional facility. It would combine aspects of a community shelter and fire station. It could serve as an Incident Command center, post disaster shelter for displaced individuals or a storm shelter.

Plan for Implementation and Administration: This will require approval of a bond or the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.

This project will assist in meeting Goal #2 Objectives #1.1, 1.2 and 1.3.

Lead Agency: City Council of Admire and Volunteer Fire District #2

Local Priority: Critical

Total Cost: \$175,000

Funding Agency: Bond by Fire District #2.

Funding Description: After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County Commissioners.

Hazards Mitigated:

- 1 . Chemical:** 100%
- 2 . Dam Failure:** 100%
- 3 . Flooding/Flash Flooding:** 100%
- 4 . Foreign Animal Diseases (FAD):** 100%
- 5 . Severe Thunderstorms/Lightning/High Winds:** 100%
- 6 . Terrorism:** 100%
- 7 . Tornado:** 100%
- 8 . Winter Storm (Snow, Ice, Sleet):** 100%
- 9. Drought:** 100%

Allen, City of Community Projects

City of Allen, Project: Allen Project: #1

Name: Early Warning

Description: Encourage citizens of Allen to buy all hazard alert radios. These radios will provide early warnings about many events.

Plan for Implementation and Administration: Information about the radios will be given at town meetings or by word of mouth.

This will assist in meeting Allen Goal #1, Objective 1.1.

Lead Agency: City Council

Local Priority: High

Total Cost: There will be no cost to the City of Allen if citizens purchase their own radios. Because of software limitations with the www.mitigationplan.com website a project without costs can not have a Benefit to Cost Ratio Calculated.

Hazards Mitigated: Flood/Flash Flood/Levee Breach: 100%

Tornado: 100%

Americus, City of Project: Project #1

Name: Emergency Planning

Description: Proper emergency planning to mitigate disaster events.

Plan for Implementation and Administration: Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as planning and practice demonstrate the need.

This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.

Lead Agency: City Council

Local Priority: High

Total Cost: \$0

Funding Agency: City of Americus

Funding Description: The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost to apply for grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.

Hazards Mitigated:

- 1 . Chemical:** 100%
- 2 . Dam Failure:** 100%
- 3 . Flooding/Flash Flooding:** 100%
- 4 . Foreign Animal Diseases (FAD):** 100%
- 5 . Severe Thunderstorms/Lightning/High Winds:** 100%
- 6 . Terrorism:** 100%
- 7 . Tornado:** 100%

8 . Winter Storm (Snow, Ice, Sleet): 100%

9. Drought: 100%

City of Americus, Project: Americus Project: #2

Name: National Flood Insurance Program

Description: Remain in NFIP.

Plan for Implementation and Administration: Americus will administer all the regulations required to remain in good standing with FEMA and the NFIP.

Required for Americus Goal #1, Objective 1.4.

Lead Agency: Will fall under duties of the Mayor.

Local Priority: High

Total Cost: It is free to join the NFIP. Administrative costs will be absorbed by the Mayor as part of his/her duties.

Hazards Mitigated: Flood/Flash Flood/Levee Breach: 100%

Dam Failure: 50%

Bushong, City of Community Projects

Bushong, City of Project: Project #1

Name: Tornado Safety

Description: Build a community storm shelter for our citizens who do not have access to a shelter.

Plan for Implementation and Administration: This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program. City owned land in Bushong could be made available for this project.

This project will assist in meeting Goal #1 Objectives 1.1 and 1.2.

Lead Agency: City Council

Local Priority: High

Total Cost: \$50,000

Funding Agency: Unknown Grant as applied for by City of Bushong.

Funding Description: This project can only be funded if a grant can be found.

Hazards Mitigated:

1. Tornado: 100%

Bushong, City of Project: Project #2

Name: Tornado Warning

Description: A tornado siren for the city of Bushong.

Plan for Implementation and Administration: This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program. City owned land in Bushong could be made available for this project. If possible, this project could be combined with the tornado safety project of a community shelter.

This project will assist in meeting Goal #2 Objective 1.1 and 1.2.

Alternatives: Community members could purchase hazard alert radios.

Lead Agency: City Council

Local Priority: High

Total Cost: \$4,000

Funding Agency: Grants

Funding Description: This will require a grant to fund this project. USDA Rural Development may be a source of funding.

Hazards Mitigated:

1. Tornado: 100%

Emporia, City of Community Projects

Emporia, City of Project: Project #1

Name: Increase the city's capability to mitigate effects of natural hazards

Description: A secondary source of communication, in the event of an emergency, in downtown Emporia that will affect communications from the EOC downtown.

Plan for Implementation and Administration: Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program.

This project will assist in meeting Goal #1 Objective 1.1 and 1.2.

Lead Agency: City Council, Emergency Management, Police Department, Fire Departments and Lyon County Sheriff's Office

Local Priority: High

Funding Description: It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.

Hazards Mitigated:

- 1 . Chemical:** 100%
- 2 . Dam Failure:** 100%
- 3 . Extreme Temperatures:** 100%
- 4 . Flooding/Flash Flooding:** 100%
- 5 . Foreign Animal Diseases (FAD):** 100%
- 6 . Severe Thunderstorms/Lightning/High Winds:** 100%
- 7 . Terrorism:** 100%
- 8 . Tornado:** 100%
- 9 . Winter Storm (Snow, Ice, Sleet):** 100%
- 10 . Wolf Creek Generating Station:** 100%

Emporia, City of Project: #2

Name: National Flood Insurance Program

Description: Remain in NFIP.

Plan for Implementation and Administration: The City of Emporia will administer all the regulations required to remain in good standing with FEMA and the NFIP. Staff is already in place to administer this project.

This will meet the requirements of Goal #1, Objective 1.3.

Lead Agency: City of Emporia, Floodplain Manager

Local Priority: High

Total Cost: It is free to join the NFIP. Administrative costs will be absorbed by the Zoning Department or City Engineer's offices.

Hazards Mitigated:

1. Flood/Flash Flood/Levee Breach 100%

2. Dam Failure: 50%

Hartford, City of Community Projects

Hartford, City of Project: Project #1

Name: All Hazards Warnings

Description: Increase warning time for hazards by encouraging citizens to purchase all hazards alert radios or weather scanners.

Plan for Implementation and Administration: Through public outreach to the community, city leaders will suggest citizens purchase all hazards alert radios. Pursue funding sources to keep all hazards alert radios in schools and critical facilities.

This project will assist in meeting Goal #1 Objective 1.1 and 1.2.

Lead Agency: City Council

Local Priority: High

Hazards Mitigated:

- 1 . Dam Failure:** 100%
- 2 . Extreme Temperatures:** 100%
- 3 . Flooding/Flash Flooding/Levee Breach:** 100%
- 4 . Severe Thunderstorms/Lightning/High Winds:** 100%
- 5 . Tornado:** 100%
- 6 . Winter Storm (Snow, Ice, Sleet):** 100%

Hartford, City of Project: Project #2

Name: Provide Critical Services

Description: Purchase a portable generator for the Hartford Community Center. The Community Center will be the location of heat and electricity during periods when power lines are down. A portable generator would have multiple uses.

Plan for Implementation and Administration: This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.

This project will assist in meeting Goal #2 Objective 1.1.

Lead Agency: City Council

Local Priority: High

Hazards Mitigated:

- 1. Severe Storm: 25%**
- 2. Winter Storm: 25%**

City of Hartford Project: #3

Name: National Flood Insurance Program

Description: Join the NFIP.

Plan for Implementation and Administration: The City of Hartford has applied to join the NFIP. A floodplain management ordinance has been submitted for approval to the Chief Engineer at the Kansas Division of Water Resources. The ordinance for floodplain management is the tool that will be used to accomplish this goal once it is approved.

This will assist in meeting Goal #1, Objective 1.3.

Lead Agency: City of Hartford, Floodplain Manager

Local Priority: High

Total Cost: It is free to join the NFIP. Administrative costs will be minimal. The area inside the levee is a preferred risk area. The only flood zones in the city limits of Hartford are a drainage area without any structures. Technical assistance can be requested for free from Kansas Division of Water Resources or the Lyon County Floodplain Manager. Any administrative costs will be absorbed by the office of the City Clerk of Hartford.

Hazards Mitigated:

- 1. Flood/Flash Flood/Levee Breach 100%**

Neosho Rapids, City of Community Projects

Neosho Rapids, City of Project: Project #1

Name: Protect Critical Services from Floods

Description: A cement block barrier surrounding the south lift station. This lift station is prone to flooding.

Plan for Implementation and Administration: This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program or volunteer labor from the community.

This project will assist in meeting Goal #1 Objective 1.1.

Lead Agency: City Council

Local Priority: High

Total Cost: \$5,000

Calculated BC Ratio: 0

Hazards Mitigated:

- 1 . Flooding/Flash Flooding:** 100%
- 2 . Severe Thunderstorms/Lightning/High Winds:** 100%
- 3 . Terrorism:** 100%

Neosho Rapids, City of Project: Project #2

Name: City Hall Safety

Description: A "safe room" citizens can use in the event of a tornado. It would be attached to the current City Hall building.

Plan for Implementation and Administration: This will require the pursuit of grant funding sources. The City of Neosho Rapids would provide land for the project to be built on. Grants that require matching funds will not be possible without a soft money match program.

This project will assist in meeting Goal #1 Objective 1.1.

Lead Agency: City Council

Local Priority: High

Funding Agency: Grant

Funding Description: Cost estimate hasn't been provided yet. A project like this will involve some sort of a grant.

Hazards Mitigated:

- 1 . Severe Thunderstorms/Lightning/High Winds:** 100%
- 2 . Tornado:** 100%

Neosho Rapids, City of Project: Project #3

Name: Electrical Power

Description: Major tree trimming of large tree limbs above electrical lines throughout the city.

Plan for Implementation and Administration: This may also require the pursuit of grant funding sources. The City of Neosho Rapids will coordinate with electrical suppliers.

This project will assist in meeting Goal #2 Objectives 1.1, 1.2 and 1.3.

Lead Agency: City Council

Local Priority: High

Funding Agency: City Council, Rural Electric Cooperative

Funding Description: Electrical Utilities may assist in this project. Some volunteer labor may even be used.

Hazards Mitigated:

1 . Severe Thunderstorms/Lightning/High Winds: 100%

2 . Tornado: 100%

3 . Winter Storm (Snow, Ice, Sleet): 100%

City of Neosho Rapids Project: #4

Name: National Flood Insurance Program

Description: Join the NFIP.

Plan for Implementation and Administration: The City of Neosho Rapids has applied to join the NFIP. A floodplain management ordinance has been submitted for approval to the Chief Engineer at the Kansas Division of Water Resources. The ordinance for floodplain management is the tool that will be used to accomplish this goal once it is approved.

This will assist with Goal #2, Objective 1.4.

Lead Agency: City of Neosho Rapids, Floodplain Manager

Local Priority: High

Total Cost: It is free to join the NFIP. Administrative costs will be minimal. Once new flood maps are approved there will only be one structure in flood zones in the city limits of Neosho Rapids. Technical assistance can be requested for free from Kansas Division of Water Resources or the Lyon County Floodplain Manager. Costs associated with this goal will be minimal. As a no

cost goal the cost to benefit ratio cannot be calculated on the web site used by the State of Kansas.

Hazards Mitigated: Flood/Flash Flood/Levee Breach 100%

Olpe, City of Community Projects

Olpe, City of Project: City of Olpe Project #1

Name: Safe Room

Description: Fire station to have a safe room for tornado shelter.

Plan for Implementation and Administration: This will require the pursuit of grant funding sources. The City of Olpe may provide land or volunteer labor as a grant match. Grants that require matching funds will not be possible without a soft money match program.

Hazards Mitigated: This will assist in meeting Goal #1, Objectives 1.1 and 1.3.

Lead Agency: City Council

Local Priority: High

Total Cost: \$25,000

Funding Agency: Grant

Funding Description: Cost estimate for a safe room is an estimate only. A grant would be only source of funding for this project. A grant that will allow a soft money match will be best.

Hazards Mitigated:

1 . Tornado: 100%

Olpe, City of Project: City of Olpe Project #2

Name: Emergency Power

Description: Back up generator for emergency services.

Plan for Implementation and Administration: This will require the pursuit of grant funding sources.

Hazards Mitigated: This will assist in meeting Goal 1, Objectives 1.3 and 1.4.

Lead Agency: City Council

Local Priority: High

Total Cost: \$7,000

Funding Agency: Unknown at this time.

Funding Description: Grants such as the Assistance to Firefighters Grants (AFG) will be looked at as a possible source of funding. It is unknown at this time how the proposal for a generator will be funded.

Hazards Mitigated:

- 1 . Extreme Temperatures:** 100%
- 2 . Flooding/Flash Flooding:** 100%
- 3 . Severe Thunderstorms/Lightning/High Winds:** 100%
- 4 . Tornado:** 100%
- 5 . Winter Storm (Snow, Ice, Sleet):** 100%

Olpe, City of Project: City of Olpe Project #3

Name: Flood Protection

Description: Flood proof barrier for water system pump house located in flood zone.

Plan for Implementation and Administration: This will require the pursuit of grant funding sources. The City of Olpe may provide land or volunteer labor as a grant match. Grants that require matching funds will not be possible without a soft money match program.

Hazards Mitigated: This will assist in meeting Olpe's Goal #1, Objectives 1.2, 1.3 and 1.4.

Lead Agency: City Council

Local Priority: High

Total Cost: \$10,000

Funding Agency: Grants

Funding Description: It has not been decided if the flood barrier will be a cement wall or an earthen berm or how it will be built. Until that is decided costs can only be estimated very roughly.

Hazards Mitigated:

1 . Flooding/Flash Flooding: 100%

Reading, City of Community Projects

Reading, City of Project: Project #2

Name: Hazard Warning for Reading

Description: Battery back up for warning systems.

Plan for Implementation and Administration: Pursue outside grant sources

This will assist in meeting Goal #1 Objective 1.2.

Lead Agency: City Council

Local Priority: High

Hazards Mitigated:

1 . Flooding/Flash Flooding: 100%

2 . Severe Thunderstorms/Lightning/High Winds: 100%

3 . Tornado: 100%

Reading, City of Project: Project #3

Name: Emergency Oxygen

Description: Emergency Oxygen in the event of a hazardous spill from railroad.

Plan for Implementation and Administration: Pursue outside grant sources.

This will assist in meeting Goal #2 Objective 2.2

Lead Agency: City Council

Local Priority: High

Total Cost: \$100,000

Funding Agency: Grant

Funding Description: City of Reading and the Reading Benefit Fire District may jointly pursue a source of funding for this project. It will require a grant of some kind.

Hazards Mitigated:

1 . Chemical: 100%

2 . Terrorism: 100%

3 . Wolf Creek Generating Station: 100%

City of Reading, Project: Project: #1

Name: Early Warning

Description: Encourage citizens of Reading to buy all hazard alert radios. These radios will provide early warnings about many events and not just a tornado. A siren only warns of a tornado.

Plan for Implementation and Administration: Information about the radios will be given at town meetings or by word of mouth.

This project will assist with meeting Goal #1, Objective 1.1.

Lead Agency: City Council

Local Priority: High

Total Cost: There will be no cost to the City of Reading if citizens purchase their own radios. Because of software limitations with the www.mitigationplan.com website a project without costs can not have a Benefit to Cost Ratio calculated.

Hazards Mitigated:

1. Flood/Flash Flood/Levee Breach

2. Tornado

3. Chemical

4. Severe Storm

This section serves to identify the proposed projects in the community by hazard.

Following table identifies Projects to mitigate the **Chemical** hazard (Dollar Amounts in Thousands).

Projects				Available Financing					
Project Number	B/C Ratio	Hazard	Total Cost	Total Funding	City (FY)	County (FY)	State (FY)	Federal (FY)	Other (FY)
Admire, City of									
Project #2 Shelter from Storm		100%	\$175	\$175	\$0	\$0	\$0	\$0	\$175
Americus, City of									
Project #1 Emergency Planning		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Emporia, City of									
Project #1 Increase the city's capability to mitigate effects of natural hazards		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Reading, City of									
Project #3 Emergency Oxygen		100%	\$100	\$0	\$0	\$0	\$0	\$0	\$0
Totals:			\$275	\$175	\$0	\$0	\$0	\$0	\$175

Following table identifies Projects to mitigate the **Dam Failure** hazard (Dollar Amounts in Thousands).

Projects				Available Financing					
Project Number	B/C Ratio	Hazard	Total Cost	Total Funding	City (FY)	County (FY)	State (FY)	Federal (FY)	Other (FY)
Lyon County									
Lyon County Project #2 Acquisition, Relocation or Elevation	0.48	100%	\$410	\$0	\$0	\$0	\$0	\$0	\$0
Lyon County Project: #1 Public Outreach Project	311.01	100%	\$2	\$0	\$0	\$0	\$0	\$0	\$0
Admire, City of									

Project #2 Shelter from Storm		100%	\$175	\$175	\$0	\$0	\$0	\$0	\$175
Americus, City of									
Project #1 Emergency Planning		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Emporia, City of									
Project #1 Increase the city's capability to mitigate effects of natural hazards		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Hartford, City of									
Project #1 All Hazards Warnings		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals:			\$587	\$175	\$0	\$0	\$0	\$0	\$175

Following table identifies Projects to mitigate the **Extreme Temperatures** hazard
(Dollar Amounts in Thousands).

Projects			Available Financing						
Project Number	B/C Ratio	Hazard	Total Cost	Total Funding	City (FY)	County (FY)	State (FY)	Federal (FY)	Other (FY)
Emporia, City of									
Project #1 Increase the city's capability to mitigate effects of natural hazards		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Hartford, City of									
Project #1 All Hazards Warnings		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Olpe, City of									
City of Olpe Project #2 Emergency Power		100%	\$7	\$0	\$0	\$0	\$0	\$0	\$0
Totals:			\$7	\$0	\$0	\$0	\$0	\$0	\$0

Following table identifies Projects to mitigate the **Flooding/Flash Flooding** hazard
(Dollar Amounts in Thousands).

Projects				Available Financing					
Project Number	B/C Ratio	Hazard	Total Cost	Total Funding	City (FY)	County (FY)	State (FY)	Federal (FY)	Other (FY)
Lyon County									
Lyon County Project #2 Acquisition, Relocation or Elevation	0.48	100%	\$410	\$0	\$0	\$0	\$0	\$0	\$0
Lyon County Project: #1 Public Outreach Project	311.01	100%	\$2	\$0	\$0	\$0	\$0	\$0	\$0
Admire, City of									
Project #2 Shelter from Storm		100%	\$175	\$175	\$0	\$0	\$0	\$0	\$175
Americus, City of									
Project #1 Emergency Planning		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Emporia, City of									
Project #1 Increase the city's capability to mitigate effects of natural hazards		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Hartford, City of									
Project #1 All Hazards Warnings		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Neosho Rapids, City of									
Project #1 Protect Critical Services from Floods	0.00	100%	\$5	\$0	\$0	\$0	\$0	\$0	\$0
Olpe, City of									
City of Olpe Project #2 Emergency Power		100%	\$7	\$0	\$0	\$0	\$0	\$0	\$0
City of Olpe Project #3 Flood Protection		100%	\$10	\$0	\$0	\$0	\$0	\$0	\$0
Reading, City of									
Project #2 Hazard Warning for Reading		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Totals:		\$609	\$175	\$0	\$0	\$0	\$0	\$175
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Following table identifies Projects to mitigate the **Foreign Animal Diseases (FAD)** hazard
(Dollar Amounts in Thousands).

Projects				Available Financing					
Project Number	B/C Ratio	Hazard	Total Cost	Total Funding	City (FY)	County (FY)	State (FY)	Federal (FY)	Other (FY)
Admire, City of									
Project #2 Shelter from Storm		100%	\$175	\$175	\$0	\$0	\$0	\$0	\$175
Americus, City of									
Project #1 Emergency Planning		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Emporia, City of									
Project #1 Increase the city's capability to mitigate effects of natural hazards		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals:			\$175	\$175	\$0	\$0	\$0	\$0	\$175

Following table identifies Projects to mitigate the **Severe Thunderstorms/Lightning/High Winds** hazard
(Dollar Amounts in Thousands).

Projects				Available Financing					
Project Number	B/C Ratio	Hazard	Total Cost	Total Funding	City (FY)	County (FY)	State (FY)	Federal (FY)	Other (FY)
Admire, City of									
Project #1 Maintain Critical Services		100%	\$7	\$0	\$0	\$0	\$0	\$0	\$0
Project #2 Shelter from Storm		100%	\$175	\$175	\$0	\$0	\$0	\$0	\$175
Americus, City of									
Project #1 Emergency Planning		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Emporia, City of									
Project #1 Increase the city's capability to mitigate		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0

effects of natural hazards									
Hartford, City of									
Project #1 All Hazards Warnings		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Neosho Rapids, City of									
Project #1 Protect Critical Services from Floods	0.00	100%	\$5	\$0	\$0	\$0	\$0	\$0	\$0
Project #2 City Hall Safety		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project #3 Electrical Power		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Olpe, City of									
City of Olpe Project #2 Emergency Power		100%	\$7	\$0	\$0	\$0	\$0	\$0	\$0
Reading, City of									
Project #2 Hazard Warning for Reading		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals:			\$194	\$175	\$0	\$0	\$0	\$0	\$175

Following table identifies Projects to mitigate the **Terrorism** hazard (Dollar Amounts in Thousands).

Projects				Available Financing					
Project Number	B/C Ratio	Hazard	Total Cost	Total Funding	City (FY)	County (FY)	State (FY)	Federal (FY)	Other (FY)
Admire, City of									
Project #2 Shelter from Storm		100%	\$175	\$175	\$0	\$0	\$0	\$0	\$175
Americus, City of									
Project #1 Emergency Planning		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Emporia, City of									
Project #1 Increase the city's capability to mitigate effects of natural		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0

hazards									
Neosho Rapids, City of									
Project #1 Protect Critical Services from Floods	0.00	100%	\$5	\$0	\$0	\$0	\$0	\$0	\$0
Reading, City of									
Project #3 Emergency Oxygen		100%	\$100	\$0	\$0	\$0	\$0	\$0	\$0
Totals:			\$280	\$175	\$0	\$0	\$0	\$0	\$175

Following table identifies Projects to mitigate the **Tornado** hazard (Dollar Amounts in Thousands).

Projects				Available Financing					
Project Number	B/C Ratio	Hazard	Total Cost	Total Funding	City (FY)	County (FY)	State (FY)	Federal (FY)	Other (FY)
Lyon County									
Lyon County Project: #1 Public Outreach Project	311.01	50%	\$2	\$0	\$0	\$0	\$0	\$0	\$0
Admire, City of									
Project #1 Maintain Critical Services		100%	\$7	\$0	\$0	\$0	\$0	\$0	\$0
Project #2 Shelter from Storm		100%	\$175	\$175	\$0	\$0	\$0	\$0	\$175
Americus, City of									
Project #1 Emergency Planning		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Bushong, City of									
Project #1 Tornado Safety		100%	\$50	\$0	\$0	\$0	\$0	\$0	\$0
Project #2 Tornado Warning		100%	\$4	\$0	\$0	\$0	\$0	\$0	\$0
Emporia, City of									
Project #1 Increase the city's capability to mitigate effects of natural hazards		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Hartford, City of									
Project #1 All Hazards Warnings		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Neosho Rapids, City of									
Project #2 City Hall Safety		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project #3 Electrical Power		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Olpe, City of									
City of Olpe Project #1 Safe Room		100%	\$25	\$0	\$0	\$0	\$0	\$0	\$0
City of Olpe Project #2 Emergency Power		100%	\$7	\$0	\$0	\$0	\$0	\$0	\$0
Reading, City of									
Project #2 Hazard Warning for Reading		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Totals:			\$270	\$175	\$0	\$0	\$0	\$0	\$175

Following table identifies Projects to mitigate the **Winter Storm (Snow, Ice, Sleet)** hazard (Dollar Amounts in Thousands).

Projects				Available Financing					
Project Number	B/C Ratio	Hazard	Total Cost	Total Funding	City (FY)	County (FY)	State (FY)	Federal (FY)	Other (FY)
Admire, City of									
Project #1 Maintain Critical Services		100%	\$7	\$0	\$0	\$0	\$0	\$0	\$0
Project #2 Shelter from Storm		100%	\$175	\$175	\$0	\$0	\$0	\$0	\$175
Americus, City of									
Project #1 Emergency Planning		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Emporia, City of									
Project #1 Increase the city's capability to mitigate effects of natural		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0

hazards									
Hartford, City of									
Project #1 All Hazards Warnings		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Neosho Rapids, City of									
Project #3 Electrical Power		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Olpe, City of									
City of Olpe Project #2 Emergency Power		100%	\$7	\$0	\$0	\$0	\$0	\$0	\$0
Totals:			\$189	\$175	\$0	\$0	\$0	\$0	\$175

Following table identifies Projects to mitigate the **Wolf Creek Generating Station** hazard (Dollar Amounts in Thousands).

Projects				Available Financing					
Project Number	B/C Ratio	Hazard	Total Cost	Total Funding	City (FY)	County (FY)	State (FY)	Federal (FY)	Other (FY)
Emporia, City of									
Project #1 Increase the city's capability to mitigate effects of natural hazards		100%	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Reading, City of									
Project #3 Emergency Oxygen		100%	\$100	\$0	\$0	\$0	\$0	\$0	\$0
Totals:			\$100	\$0	\$0	\$0	\$0	\$0	\$0

5.4 Implementation Strategy and Analysis of Mitigation Projects

The list of goals and objectives in Section 5 are the complete and entire list that were suggested by all the jurisdictions. No suggested goals or actions were left out of the plan.

In Section 4.2 part J. "Vulnerability to Future Assets/Infrastructure" this plan already discusses specific ways to protect NEW/future buildings and infrastructure from each specific hazard. This section will attempt to combine all of those statements here into one complete listing.

The Lyon County Zoning Regulations prohibit building structures down stream from a watershed dam unless the building is above proscribed flooding levels. The eight watershed districts in Lyon County are

notified of any request for rezoning in their areas 21 days before the Planning Board meeting.

Unincorporated Lyon County, City of Americus, and City of Emporia are all members of National Flood Insurance Program. The cities of Hartford and Neosho Rapids have both also requested to join the NFIP. At the time of this review those two cities have turned in resolutions for review to the Chief Engineer at the Kansas Division of Water Resources. Those Communities that are members of the NFIP will follow all the required guidelines and regulations before allowing new construction in a flood area. For example: Properties will have to be elevated to 1 foot above the base flood elevation.

Where building codes allow it wind resistant construction will be encouraged for new development. This will reduce effects of severe storm and/or tornado.

In those jurisdictions that have zoning or city ordinances set back requirements will be observed. One purpose of set back requirements from adjacent properties is to create lanes for emergency responders and emergency vehicles to use. For instance: New construction in Lyon County that violates the set back requirement of 50 feet from adjacent property can only be allowed by a variance from the Lyon County Appeals Board.

City of Hartford has a levee around it. To ensure that levee is safe and will provide protection to existing structures it is being inspected and certified by the U.S. Army Corps of Engineers. Certification to be completed by end of year 2007. The levee will continue to be recertified by the USACE periodically. The USACE will maintain the levee around Hartford. There is currently a Provisionally Accredited Levee agreement in place with FEMA for this levee so that new flood maps can be created showing the levee. This will effect new construction behind the levee and also existing construction behind the levee. See map of inundation area in Hartford, Section 4.2 K Dam Failure, should the levee fail.

Electrical utilities will use a new type of wire for power lines. This new type of wire resists build up of ice from ice storms and also high winds.

Radio and telecommunications towers are being built with lightning rods.

Future assets should have tornado shelters. This won't protect the entire new structure but it will protect lives of those using the facility.

In section 4.2 and other parts of this plan it discusses some ways to protect EXISTING buildings and infrastructure. This is a list of methods used to protect existing buildings and critical assets.

During extended periods of drought a burn ban will go into effect.

Once this plan is approved all jurisdictions inside of Lyon County will be eligible to apply for hazard mitigation grants. The State of Kansas has a Hazard Mitigation Grant Program. At the Federal level there are two programs called Flood Mitigation Assistance and the Pre-Disaster Mitigation Grants.

These programs may make it possible to buy out existing structures in a hazard area. An alternative may also be to use grant program funds to elevate a structure in a flood area so it is one foot higher than the base flood elevation.

Grant funds could be used to add tornado shelters to existing public facilities if approved by State of Kansas.

The levee at Hartford will be certified and maintained. This was discussed in earlier part of this same section.

There is a high hazard dam north of the City of Americus. In accordance with the Dam Safety Law the State of Kansas has requirements for high hazard dams to be inspected by an engineer and a breach study and an evacuation plan be made. RHK Enterprises Inc. from Admire, KS is the firm responsible for the periodic inspections of the high hazard dam north of Americus.

RHK submits all documents to State of Kansas, Department of Agriculture, Division of Water Resources, Water Structures, Dam Safety Team. Lyon County has made an open records request to DWR. We have asked to be notified of any changes in status for this dam.

By maintaining status in the National Flood Insurance Program some structures and property in Emporia, Americus, and Lyon County will be insured. In the near future Hartford and Neosho Rapids will be enrolled in the NFIP also.

In section 5.3 Table 3 projects are prioritized purely on the basis of total costs. Costs are estimated based on best information available at this time. Here is an example of how we arrived at estimated cost figures. For the Lyon County Project involving a flood safety leaflet mailed to all the citizens in Lyon County the total costs were calculated in this way. There is no postage fee because this leaflet will be inserted into property tax statements being mailed out by the County Appraiser. This eliminates needs for calculating costs of envelopes and postage. The cost was based on number of property tax statements being mailed out and cost of printing exactly that many leaflets.

Some projects have virtually no costs. In some communities the citizens will be encouraged to buy all hazards alert radios. These are the radios that warn citizens about all types of weather events, amber alerts, and so on. With a tornado siren the only warning is from a tornado. All hazard alert radios are more comprehensive in the warnings given. These radios sell individually for about \$30.

Information about where the radios are sold will be given out at public meetings. In the smallest communities this will be a word of mouth campaign not an advertising campaign. In Bushong, a city of fewer than 60 people where some people don't read the newspaper, a word of mouth campaign may be the best method. It is also the most cost efficient.

There will be goals with little or no cost to the jurisdictions involved. In those instances a dollar amount of \$0 (zero) is the estimated cost and not a data entry error. A goal to maintain status in the NFIP will have few costs associated with it in a community with very few flood areas. Without flood areas there will be virtually no cost to administer the requirements of the NFIP. There is no cost to join the NFIP.

In the beginning of Section 5.3 is an equation used to determine benefit-cost ratios. Community action projects in section 5.3 were given a classification for "local priority". Classifications such as high or

low were given by jurisdictions for the action projects in Section 5.3 of this hazard mitigation plan. In assigning local priority the benefit versus the cost was a factor that was considered. Additional factors were time to implement, available funding, long term or short term goal, and number of lives at risk. Multiple jurisdictions were involved in this planning effort.

Each jurisdiction used their own somewhat subjective methods for determining priorities. Obviously a project given high priority is more important to the Community than a project given low priority. It is requested that FEMA and KDEM include definitions of critical, high, medium, and low priority as a part of the www.mitigationplan.com web site. In this way each jurisdiction within Lyon County can be encouraged to use the same method of determining priority for future mitigation goals. This will create a more standardized approach.

This section of the Lyon County Hazard Mitigation Plan describes the goals and objectives established by the Planning Team for the mitigation planning and programming intended to be accomplished. The section also identifies the desired scheduling of the future planning efforts of the Planning Team as well as the desired schedule for implementation of proposed mitigation initiatives by the participating jurisdictions and organizations.

Goals and Objectives

The Lyon County Mitigation Planning Team in cooperation with all the jurisdictions within the County has established a set of goals and objectives to guide its work in the development of this plan. The goals and objectives help to focus the efforts of the group in the mitigation planning effort to achieve an end result that matches the communities unique set of needs, interests and desires.

The goals and objectives selected by the Planning Team for the planning process are those displayed in the attached list. The goal statements are the overall endpoint that the Planning Team would like to have the community eventually reach.

Each goal statement has one or more objectives that provide a more specific framework for actions to be taken by the Planning Team and its participants. The objectives define actions or results that can be placed into measurable terms by the Planning Team, and translated into specific assignments by the Steering Committee for implementation by the participants in the Planning Team and associated agencies and organizations.

The objectives selected by the Planning Team also create a framework for guiding the development of proposed mitigation initiatives for incorporation into the plan. If feasible, the planning participants have attempted to associate a proposed objective with one of the objective statements, and thereby with the corresponding goal. Proposing mitigation initiatives that are consistent with the selected objectives is a principal mechanism for the Planning Team participants to achieve the stated goals for the mitigation planning program.

As the Lyon County Local Hazard Mitigation Plan is reviewed and updated by the Planning Team, the goals and supporting objective statements are also reviewed to ensure they are still applicable to meeting the unique needs, interests and desires of the community.

It is the expectation of the Lyon County Hazard Mitigation Planning Team/Local Emergency Planning Committee that all government agencies or executive leadership of each organization will review, consider recommendations and update the Lyon County Hazard Mitigation Plan at least every five years. Further, following any major emergency event, the Hazard Mitigation Team (LEPC) will evaluate and document the effectiveness of both the plan and any previously implemented mitigation initiatives.

The Hazard Mitigation Planning Team will continue to meet as outlined in section 6 in an effort to:

- Complete additional facility assessments
- Refine current neighborhood vulnerability assessments to include specific numbers and types of people at risk
- Refine current vulnerability assessment to include potential dollar losses
- Develop additional initiatives and work toward implementing current initiatives
- Seek funding resources for existing and future mitigation initiatives

The team recognizes that it will take a long period of time to implement any if not all of the proposed initiatives approved for this plan. The community members who assisted in creating this plan are dedicated to achieving as many goals as possible.

When applicable, Lyon County Emergency Management with assistance from the appropriate Hazard Mitigation Planning Team will consider the effectiveness of previously implemented mitigation measures and of current mitigation related policies, plans, practices, and programs to include the following:

- Hazard Mitigation Grant Program (HMGP) projects
- Public Assistance (PA) program projects
- Corp of Engineers studies, plans, and projects
- Action and projects that receive federal funding from Pre Disaster Mitigation program
- Comprehensive and capital improvement plans
- Current building and fire codes
- Current floodplain management ordinances
- Community Rating System evaluation, Flood Insurance studies, or other technical assistance reports

This section serves to identify the Proposed Projects in the community.

Following tables represents the summation of all mitigation projects related to all hazards threatening the community of Lyon County, KS

Table 1 The projects are prioritized purely on the basis of the Calculated B/C Ratio (Dollar Amounts in Thousands).

Projects				Available Financing					
Project Number	B/C Ratio	Hazard	Total Cost	Total Funding	City (FY)	County (FY)	State (FY)	Federal (FY)	Other (FY)
Lyon County Project: #1 Public Outreach Project (Lyon County)	311.01	Dam Failure (100%)	\$2	\$0	\$0	\$0	\$0	\$0	\$0
		Flooding/Flash Flooding (100%)							
		Tornado (50%)							
Lyon County Project #2 Acquisition, Relocation or Elevation (Lyon County)	0.48	Dam Failure (100%)	\$410	\$0	\$0	\$0	\$0	\$0	\$0
		Flooding/Flash Flooding (100%)							
Project #1 Protect Critical Services from Floods (Neosho Rapids, City of)	0.00	Flooding/Flash Flooding (100%)	\$5	\$0	\$0	\$0	\$0	\$0	\$0
		Severe Thunderstorms/Lightning/High Winds (100%)							
		Terrorism (100%)							
Project #1 Maintain Critical Services (Admire, City of)		Severe Thunderstorms/Lightning/High Winds (100%)	\$7	\$0	\$0	\$0	\$0	\$0	\$0
		Tornado (100%)							
		Winter Storm (Snow, Ice, Sleet) (100%)							
Project #2 Shelter from Storm (Admire, City of)		Chemical (100%)	\$175	\$175	\$0	\$0	\$0	\$0	\$175
		Dam Failure (100%)							
		Flooding/Flash Flooding (100%)							
		Foreign Animal Diseases (FAD) (100%)							
		Severe Thunderstorms/Lightning/High Winds (100%)							

		Terrorism (100%)								
		Tornado (100%)								
		Winter Storm (Snow, Ice, Sleet) (100%)								
Project #1 Emergency Planning (Americus, City of)		Chemical (100%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Dam Failure (100%)								
		Flooding/Flash Flooding (100%)								
		Foreign Animal Diseases (FAD) (100%)								
		Severe Thunderstorms/Lightning /High Winds (100%)								
		Terrorism (100%)								
		Tornado (100%)								
		Winter Storm (Snow, Ice, Sleet) (100%)								
Project #1 Tornado Safety (Bushong, City of)		Tornado (100%)	\$50	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project #2 Tornado Warning (Bushong, City of)		Tornado (100%)	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project #1 Increase the city's capability to mitigate effects of natural hazards (Emporia, City of)		Chemical (100%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Dam Failure (100%)								
		Extreme Temperatures (100%)								
		Flooding/Flash Flooding (100%)								
		Foreign Animal Diseases (FAD) (100%)								
		Severe Thunderstorms/Lightning /High Winds (100%)								
		Terrorism (100%)								
		Tornado (100%)								
		Winter Storm (Snow, Ice,								

		Sleet (100%)								
		Wolf Creek Generating Station (100%)								
Project #1	All Hazards Warnings (Hartford, City of)	Dam Failure (100%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		Extreme Temperatures (100%)								
		Flooding/Flash Flooding (100%)								
		Severe Thunderstorms/Lightning/High Winds (100%)								
		Tornado (100%)								
		Winter Storm (Snow, Ice, Sleet) (100%)								
Project #2		City Hall Safety (Neosho Rapids, City of)	Severe Thunderstorms/Lightning/High Winds (100%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Tornado (100%)									
Project #3	Electrical Power (Neosho Rapids, City of)	Severe Thunderstorms/Lightning/High Winds (100%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		Tornado (100%)								
		Winter Storm (Snow, Ice, Sleet) (100%)								
City of Olpe Project #1	Safe Room (Olpe, City of)	Tornado (100%)	\$25	\$0	\$0	\$0	\$0	\$0	\$0	
City of Olpe Project #2	Emergency Power (Olpe, City of)	Extreme Temperatures (100%)	\$7	\$0	\$0	\$0	\$0	\$0	\$0	
		Flooding/Flash Flooding (100%)								
		Severe Thunderstorms/Lightning/High Winds (100%)								
		Tornado (100%)								
		Winter Storm (Snow, Ice, Sleet) (100%)								
City of Olpe		Flooding/Flash Flooding (100%)	\$10	\$0	\$0	\$0	\$0	\$0	\$0	

Project #3 Flood Protection (Olpe, City of)									
Project #2 Hazard Warning for Reading (Reading, City of)	Flooding/Flash Flooding (100%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Severe Thunderstorms/Lightning/High Winds (100%)								
	Tornado (100%)								
Project #3 Emergency Oxygen (Reading, City of)	Chemical (100%)	\$100	\$0	\$0	\$0	\$0	\$0	\$0	\$0
	Terrorism (100%)								
	Wolf Creek Generating Station (100%)								
Totals:		\$795	\$175	\$0	\$0	\$0	\$0	\$0	\$175

Table 2 The projects are prioritized purely on the basis of Local Priority (Dollar Amounts in Thousands).

Projects			Available Financing						
Project Number	Local Priority	Hazard	Total Cost	Total Funding	City (FY)	County (FY)	State (FY)	Federal (FY)	Other (FY)
Project #2 Shelter from Storm (Admire, City of)	Critical	Chemical (100%)	\$175	\$175	\$0	\$0	\$0	\$0	\$175
		Dam Failure (100%)							
		Flooding/Flash Flooding (100%)							
		Foreign Animal Diseases (FAD) (100%)							
		Severe Thunderstorms/Lightning/High Winds (100%)							
		Terrorism (100%)							
		Tornado (100%)							
		Winter Storm (Snow, Ice, Sleet) (100%)							
Lyon County Project #2 Acquisition, Relocation	High	Dam Failure (100%)	\$410	\$0	\$0	\$0	\$0	\$0	\$0
		Flooding/Flash Flooding (100%)							

n or Elevation <i>(Lyon County)</i>										
Project #1 Emergency Planning <i>(Americus, City of)</i>	High	Chemical <i>(100%)</i>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		Dam Failure <i>(100%)</i>								
		Flooding/Flash Flooding <i>(100%)</i>								
		Foreign Animal Diseases (FAD) <i>(100%)</i>								
		Severe Thunderstorms/Lightning/High Winds <i>(100%)</i>								
		Terrorism <i>(100%)</i>								
		Tornado <i>(100%)</i>								
		Winter Storm (Snow, Ice, Sleet) <i>(100%)</i>								
Project #1 Tornado Safety <i>(Bushong, City of)</i>	High	Tornado <i>(100%)</i>	\$50	\$0	\$0	\$0	\$0	\$0	\$0	
Project #2 Tornado Warning <i>(Bushong, City of)</i>	High	Tornado <i>(100%)</i>	\$4	\$0	\$0	\$0	\$0	\$0	\$0	
Project #1 Increase the city's capability to mitigate effects of natural hazards <i>(Emporia, City of)</i>	High	Chemical <i>(100%)</i>	\$0	\$0	\$0	\$0	\$0	\$0	\$0	
		Dam Failure <i>(100%)</i>								
		Extreme Temperatures <i>(100%)</i>								
		Flooding/Flash Flooding <i>(100%)</i>								
		Foreign Animal Diseases (FAD) <i>(100%)</i>								
		Severe Thunderstorms/Lightning/High Winds <i>(100%)</i>								
		Terrorism <i>(100%)</i>								
		Tornado <i>(100%)</i>								
		Winter Storm (Snow, Ice, Sleet) <i>(100%)</i>								
Wolf Creek Generating										

		Station (100%)							
Project #1 All Hazards Warnings (Hartford, City of)	High	Dam Failure (100%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Extreme Temperatures (100%)							
		Flooding/Flash Flooding (100%)							
		Severe Thunderstorms/Lightning /High Winds (100%)							
		Tornado (100%)							
		Winter Storm (Snow, Ice, Sleet) (100%)							
Project #1 Protect Critical Services from Floods (Neosho Rapids, City of)	High	Flooding/Flash Flooding (100%)	\$5	\$0	\$0	\$0	\$0	\$0	\$0
		Severe Thunderstorms/Lightning /High Winds (100%)							
		Terrorism (100%)							
Project #2 City Hall Safety (Neosho Rapids, City of)	High	Severe Thunderstorms/Lightning /High Winds (100%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Tornado (100%)							
Project #3 Electrical Power (Neosho Rapids, City of)	High	Severe Thunderstorms/Lightning /High Winds (100%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Tornado (100%)							
		Winter Storm (Snow, Ice, Sleet) (100%)							
City of Olpe Project #1 Safe Room (Olpe, City of)	High	Tornado (100%)	\$25	\$0	\$0	\$0	\$0	\$0	\$0
City of Olpe Project #2 Emergency Power (Olpe, City of)	High	Extreme Temperatures (100%)	\$7	\$0	\$0	\$0	\$0	\$0	\$0
		Flooding/Flash Flooding (100%)							
		Severe Thunderstorms/Lightning /High Winds (100%)							
		Tornado							

		(100%) Winter Storm (Snow, Ice, Sleet) (100%)							
City of Olpe Project #3 Flood Protection (Olpe, City of)	High	Flooding/Flash Flooding (100%)	\$10	\$0	\$0	\$0	\$0	\$0	\$0
Project #2 Hazard Warning for Reading (Reading, City of)	High	Flooding/Flash Flooding (100%) Severe Thunderstorms/Lightning/High Winds (100%) Tornado (100%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Project #3 Emergency Oxygen (Reading, City of)	High	Chemical (100%) Terrorism (100%) Wolf Creek Generating Station (100%)	\$100	\$0	\$0	\$0	\$0	\$0	\$0
Project #1 Maintain Critical Services (Admire, City of)	Medium	Severe Thunderstorms/Lightning/High Winds (100%) Tornado (100%) Winter Storm (Snow, Ice, Sleet) (100%)	\$7	\$0	\$0	\$0	\$0	\$0	\$0
Lyon County Project: #1 Public Outreach Project (Lyon County)	Low	Dam Failure (100%) Flooding/Flash Flooding (100%) Tornado (50%)	\$2	\$0	\$0	\$0	\$0	\$0	\$0
Totals:			\$795	\$175	\$0	\$0	\$0	\$0	\$175

Table 3 The projects are prioritized purely on the basis of Total Cost (Dollar Amounts in Thousands).

Projects				Available Financing					
Project Number	B/C Ratio	Hazard	Total Cost	Total Funding	City (FY)	County (FY)	State (FY)	Federal (FY)	Other (FY)
Lyon County Project #2	0.48	Dam Failure (100%)	\$410	\$0	\$0	\$0	\$0	\$0	\$0

Acquisition, Relocation or Elevation <i>(Lyon County)</i>	Flooding/Flash Flooding <i>(100%)</i>								
Project #2 Shelter from Storm <i>(Admire, City of)</i>	Chemical <i>(100%)</i>	\$175	\$175	\$0	\$0	\$0	\$0	\$175	
	Dam Failure <i>(100%)</i>								
	Flooding/Flash Flooding <i>(100%)</i>								
	Foreign Animal Diseases (FAD) <i>(100%)</i>								
	Severe Thunderstorms/Lightning/High Winds <i>(100%)</i>								
	Terrorism <i>(100%)</i>								
	Tornado <i>(100%)</i>								
	Winter Storm (Snow, Ice, Sleet) <i>(100%)</i>								
Project #3 Emergency Oxygen <i>(Reading, City of)</i>	Chemical <i>(100%)</i>	\$100	\$0	\$0	\$0	\$0	\$0	\$0	
	Terrorism <i>(100%)</i>								
	Wolf Creek Generating Station <i>(100%)</i>								
Project #1 Tornado Safety <i>(Bushong, City of)</i>	Tornado <i>(100%)</i>	\$50	\$0	\$0	\$0	\$0	\$0	\$0	
City of Olpe Project #1 Safe Room <i>(Olpe, City of)</i>	Tornado <i>(100%)</i>	\$25	\$0	\$0	\$0	\$0	\$0	\$0	
City of Olpe Project #3 Flood Protection <i>(Olpe, City of)</i>	Flooding/Flash Flooding <i>(100%)</i>	\$10	\$0	\$0	\$0	\$0	\$0	\$0	
Project #1 Maintain Critical Services <i>(Admire, City of)</i>	Severe Thunderstorms/Lightning/High Winds <i>(100%)</i>	\$7	\$0	\$0	\$0	\$0	\$0	\$0	
	Tornado								

City of		(100%) Winter Storm (Snow, Ice, Sleet) (100%)								
City of Olpe Project #2 Emergency Power (Olpe, City of)		Extreme Temperatures (100%)	\$7	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Flooding/Flash Flooding (100%)								
		Severe Thunderstorms/Lightning/High Winds (100%)								
		Tornado (100%)								
		Winter Storm (Snow, Ice, Sleet) (100%)								
Project #1 Protect Critical Services from Floods (Neosho Rapids, City of)	0.00	Flooding/Flash Flooding (100%)	\$5	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Severe Thunderstorms/Lightning/High Winds (100%)								
		Terrorism (100%)								
Project #2 Tornado Warning (Bushong, City of)		Tornado (100%)	\$4	\$0	\$0	\$0	\$0	\$0	\$0	\$0
Lyon County Project: #1 Public Outreach Project (Lyon County)	311.01	Dam Failure (100%)	\$2	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Flooding/Flash Flooding (100%)								
		Tornado (50%)								
Project #1 Emergency Planning (Americus, City of)		Chemical (100%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Dam Failure (100%)								
		Flooding/Flash Flooding (100%)								
		Foreign Animal Diseases (FAD) (100%)								
		Severe Thunderstorms/Lightning/High Winds (100%)								
		Terrorism (100%)								
		Tornado (100%)								
		Winter Storm (Snow, Ice, Sleet)								

		(100%)							
Project #1 Increase the city's capability to mitigate effects of natural hazards (Emporia, City of)		Chemical (100%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Dam Failure (100%)							
		Extreme Temperatures (100%)							
		Flooding/Flash Flooding (100%)							
		Foreign Animal Diseases (FAD) (100%)							
		Severe Thunderstorms/Lightning /High Winds (100%)							
		Terrorism (100%)							
		Tornado (100%)							
		Winter Storm (Snow, Ice, Sleet) (100%)							
		Wolf Creek Generating Station (100%)							
Project #1 All Hazards Warnings (Hartford, City of)		Dam Failure (100%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Extreme Temperatures (100%)							
		Flooding/Flash Flooding (100%)							
		Severe Thunderstorms/Lightning /High Winds (100%)							
		Tornado (100%)							
		Winter Storm (Snow, Ice, Sleet) (100%)							
Project #2 City Hall Safety (Neosho Rapids, City of)		Severe Thunderstorms/Lightning /High Winds (100%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Tornado (100%)							
Project #3 Electrical Power (Neosho Rapids, City of)		Severe Thunderstorms/Lightning /High Winds (100%)	\$0	\$0	\$0	\$0	\$0	\$0	\$0
		Tornado (100%)							
		Winter Storm (Snow, Ice, Sleet) (100%)							
Project #2		Flooding/Flash Flooding	\$0	\$0	\$0	\$0	\$0	\$0	\$0

Hazard Warning for Reading <i>(Reading, City of)</i>	(100%)									
	Severe Thunderstorms/Lightning /High Winds									
	(100%)									
	Tornado									
	(100%)									
Totals:		\$795	\$175	\$0	\$0	\$0	\$0	\$0	\$175	

Table 4 The projects are prioritized purely on the basis of the CPRI of the Primary Hazard (Dollar Amounts in Thousands).

Project Number	CPRI	Hazard	Total Cost	Strategy	Funding
Lyon County Project #2 Acquisition, Relocation or Elevation <i>(Lyon County)</i>	3.40	Flooding/Flash Flooding <i>(100%)</i>	\$410	This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program. Lyon County will work with willing property owners in hazardous areas.	The estimated cost to buy out one critical facility alone is given. Lyon County does not have funds available for a project this size.
Lyon County Project: #1 Public Outreach Project <i>(Lyon County)</i>	3.40	Flooding/Flash Flooding <i>(100%)</i>	\$2	A one page two-sided letter about hazards, flood insurance, and County programs. This letter will be sent to every property owner in Lyon County. These outreach letters can be sent out with regularly mailed property tax statements from the County Appraiser's office. This method eliminates the cost of separate envelopes and postage. If funding can be found this will be completed in	A request for funding from the County Commissioners was denied. There is \$500 for public outreach in the budget for Zoning. This money will be used to fund a partial outreach program each year until the end goal is achieved.

				a year. This project may have to be completed in phases over a three to four year period with current funding.	
Lyon County Project: #1 Public Outreach Project (Lyon County)	3.25	Tornado (50%)	\$2	A one page two-sided letter about hazards, flood insurance, and County programs. This letter will be sent to every property owner in Lyon County. These outreach letters can be sent out with regularly mailed property tax statements from the County Appraiser's office. This method eliminates the cost of separate envelopes and postage. If funding can be found this will be completed in a year. This project may have to be completed in phases over a three to four year period with current funding.	A request for funding from the County Commissioners was denied. There is \$500 for public outreach in the budget for Zoning. This money will be used to fund a partial outreach program each year until the end goal is achieved.
Lyon County Project #2 Acquisition, Relocation or Elevation (Lyon County)	1.50	Dam Failure (100%)	\$410	This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program. Lyon County will work with willing property owners in hazardous areas.	The estimated cost to buy out one critical facility alone is given. Lyon County does not have funds available for a project this size.

<p>Lyon County Project: #1 Public Outreach Project (Lyon County)</p>	<p>1.50</p>	<p>Dam Failure (100%)</p>	<p>\$2</p> <p>A one page two-sided letter about hazards, flood insurance, and County programs. This letter will be sent to every property owner in Lyon County. These outreach letters can be sent out with regularly mailed property tax statements from the County Appraiser's office. This method eliminates the cost of separate envelopes and postage. If funding can be found this will be completed in a year. This project may have to be completed in phases over a three to four year period with current funding.</p>	<p>A request for funding from the County Commissioners was denied. There is \$500 for public outreach in the budget for Zoning. This money will be used to fund a partial outreach program each year until the end goal is achieved.</p>
<p>Project #2 Shelter from Storm (Admire, City of)</p>	<p>0.00</p>	<p>Dam Failure (100%)</p>	<p>\$175</p> <p>This will require approval of a bond or the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #2 Objectives #1.1,1.2 and 1.3.</p>	<p>After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County Commissioners.</p>
<p>Project #1 Emergency Planning (Americus, City of)</p>	<p>0.00</p>	<p>Dam Failure (100%)</p>	<p>\$0</p> <p>Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's</p>	<p>The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are</p>

				<p>Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as planning and practice demonstrate the need.</p> <p>This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.</p>	<p>already on salary as community officials. Others will be volunteers. There is no cost to apply for grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.</p>
<p>Project #1 Increase the city's capability to mitigate effects of natural hazards <i>(Emporia, City of)</i></p>	0.00	Chemical <i>(100%)</i>	\$0	<p>Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	<p>It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.</p>
<p>Project #1 Increase the city's capability to mitigate effects of natural hazards <i>(Emporia, City of)</i></p>	0.00	Dam Failure <i>(100%)</i>	\$0	<p>Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program.</p>	<p>It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.</p>

				This project will assist in meeting Goal #1 Objective 1.1 and 1.2.	
Project #1 Increase the city's capability to mitigate effects of natural hazards <i>(Emporia, City of)</i>	0.00	Flooding/Flash Flooding <i>(100%)</i>	\$0	Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program. This project will assist in meeting Goal #1 Objective 1.1 and 1.2.	It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.
Project #1 Increase the city's capability to mitigate effects of natural hazards <i>(Emporia, City of)</i>	0.00	Foreign Animal Diseases (FAD) <i>(100%)</i>	\$0	Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program. This project will assist in meeting Goal #1 Objective 1.1 and 1.2.	It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.
Project #1 Increase the city's capability to mitigate effects of	0.00	Wolf Creek Generating Station <i>(100%)</i>	\$0	Pursue grant funding sources to create a communications center with phone lines at	It is not known yet where funding will come from. When a source of funding is identified this

<p>natural hazards (Emporia, City of)</p>			<p>the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	<p>plan will be updated.</p>
<p>Project #1 All Hazards Warnings (Hartford, City of)</p>	<p>0.00</p>	<p>Flooding/Flash Flooding (100%)</p>	<p>\$0</p> <p>This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	
<p>Project #1 Maintain Critical Services (Admire, City of)</p>		<p>Severe Thunderstorms/Lightning/High Winds (100%)</p>	<p>\$7</p> <p>An 11kw diesel generator at GoPower.com was listed for \$6,999. The City of Admire does not have money available for this without an outside source of funding. This will require the pursuit of grant funding sources. Grants that require matching funds may not be possible without a soft money match program.</p> <p>This will assist in meeting Goal #1 Objective</p>	<p>This could become a joint project between City of Admire and Fire District #2.</p>

				1.1	
Project #1 Maintain Critical Services (Admire, City of)		Tornado (100%)	\$7	An 11kw diesel generator at GoPower.com was listed for \$6,999. The City of Admire does not have money available for this without an outside source of funding. This will require the pursuit of grant funding sources. Grants that require matching funds may not be possible without a soft money match program. This will assist in meeting Goal #1 Objective 1.1	This could become a joint project between City of Admire and Fire District #2.
Project #1 Maintain Critical Services (Admire, City of)		Winter Storm (Snow, Ice, Sleet) (100%)	\$7	An 11kw diesel generator at GoPower.com was listed for \$6,999. The City of Admire does not have money available for this without an outside source of funding. This will require the pursuit of grant funding sources. Grants that require matching funds may not be possible without a soft money match program. This will assist in meeting Goal #1 Objective 1.1	This could become a joint project between City of Admire and Fire District #2.
Project #2 Shelter from Storm		Chemical (100%)	\$175	This will require approval of a bond or the	After this plan was submitted to FEMA a bond was

(Admire, City of)				<p>pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #2 Objectives #1.1,1.2 and 1.3.</p>	<p>approved for Fire District #2 by the County Commissioners.</p>
<p>Project #2 Shelter from Storm (Admire, City of)</p>		<p>Flooding/Flash Flooding (100%)</p>	\$175	<p>This will require approval of a bond or the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #2 Objectives #1.1,1.2 and 1.3.</p>	<p>After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County Commissioners.</p>
<p>Project #2 Shelter from Storm (Admire, City of)</p>		<p>Foreign Animal Diseases (FAD) (100%)</p>	\$175	<p>This will require approval of a bond or the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #2 Objectives #1.1,1.2 and 1.3.</p>	<p>After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County Commissioners.</p>
<p>Project #2 Shelter from Storm (Admire, City of)</p>		<p>Severe Thunderstorms/Lightning/High Winds (100%)</p>	\$175	<p>This will require approval of a bond or the pursuit of grant funding sources. Grants that</p>	<p>After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County</p>

				<p>require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #2 Objectives #1.1,1.2 and 1.3.</p>	Commissioners.
<p>Project #2 Shelter from Storm (Admire, City of)</p>		<p>Terrorism (100%)</p>	\$175	<p>This will require approval of a bond or the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #2 Objectives #1.1,1.2 and 1.3.</p>	<p>After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County Commissioners.</p>
<p>Project #2 Shelter from Storm (Admire, City of)</p>		<p>Tornado (100%)</p>	\$175	<p>This will require approval of a bond or the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #2 Objectives #1.1,1.2 and 1.3.</p>	<p>After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County Commissioners.</p>
<p>Project #2 Shelter from Storm (Admire, City of)</p>		<p>Winter Storm (Snow, Ice, Sleet) (100%)</p>	\$175	<p>This will require approval of a bond or the pursuit of grant funding sources. Grants that require matching funds will not be</p>	<p>After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County Commissioners.</p>

				possible without a soft money match program. This project will assist in meeting Goal #2 Objectives #1.1,1.2 and 1.3.	
Project #1 Emergency Planning <i>(Americus, City of)</i>		Chemical <i>(100%)</i>	\$0	Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as planning and practice demonstrate the need. This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.	The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost to apply for grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.
Project #1 Emergency Planning <i>(Americus, City of)</i>		Flooding/Flash Flooding <i>(100%)</i>	\$0	Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as planning and practice demonstrate the need. This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.	The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost to apply for grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.
Project #1 Emergency		Foreign Animal Diseases <i>(FAD)</i>	\$0	Create a Emergency	The costs to hold initial Planning

<p>Planning (Americus, City of)</p>		(100%)		<p>Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as planning and practice demonstrate the need.</p> <p>This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.</p>	<p>Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost to apply for grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.</p>
<p>Project #1 Emergency Planning (Americus, City of)</p>		<p>Severe Thunderstorms/Lightning/High Winds (100%)</p>	\$0	<p>Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as planning and practice demonstrate the need.</p> <p>This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.</p>	<p>The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost to apply for grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.</p>
<p>Project #1 Emergency Planning (Americus, City of)</p>		<p>Terrorism (100%)</p>	\$0	<p>Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as planning and practice</p>	<p>The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost to apply for grants. If it is later determined to</p>

				<p>demonstrate the need.</p> <p>This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.</p>	<p>apply for a grant that requires a local match that amount can be added in to this section.</p>
<p>Project #1 Emergency Planning <i>(Americus, City of)</i></p>		<p>Tornado <i>(100%)</i></p>	<p>\$0</p>	<p>Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as planning and practice demonstrate the need.</p> <p>This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.</p>	<p>The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost to apply for grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.</p>
<p>Project #1 Emergency Planning <i>(Americus, City of)</i></p>		<p>Winter Storm (Snow, Ice, Sleet) <i>(100%)</i></p>	<p>\$0</p>	<p>Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as planning and practice demonstrate the need.</p> <p>This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.</p>	<p>The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost to apply for grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.</p>
<p>Project #1 Tornado Safety</p>		<p>Tornado <i>(100%)</i></p>	<p>\$50</p>	<p>This will require the pursuit of grant funding</p>	<p>This project can only be funded if a grant can be</p>

<i>(Bushong, City of)</i>				<p>sources. Grants that require matching funds will not be possible without a soft money match program. City owned land in Bushong could be made available for this project.</p> <p>This project will assist in meeting Goal #1 Objectives 1.1 and 1.2.</p>	<p>found.</p>
<p>Project #2 Tornado Warning <i>(Bushong, City of)</i></p>		<p>Tornado <i>(100%)</i></p>	<p>\$4</p>	<p>This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program. City owned land in Bushong could be made available for this project. If possible, this project could be combined with the tornado safety project of a community shelter.</p> <p>This project will assist in meeting Goal #2 Objective 1.1 and 1.2.</p>	<p>This will require a grant to fund this project. USDA Rural Development may be a source of funding.</p>
<p>Project #1 Increase the city's capability to mitigate effects of natural hazards <i>(Emporia, City of)</i></p>		<p>Extreme Temperatures <i>(100%)</i></p>	<p>\$0</p>	<p>Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be</p>	<p>It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.</p>

				possible without a soft money match program. This project will assist in meeting Goal #1 Objective 1.1 and 1.2.	
Project #1 Increase the city's capability to mitigate effects of natural hazards <i>(Emporia, City of)</i>		Severe Thunderstorms/Lightning/High Winds <i>(100%)</i>	\$0	Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program. This project will assist in meeting Goal #1 Objective 1.1 and 1.2.	It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.
Project #1 Increase the city's capability to mitigate effects of natural hazards <i>(Emporia, City of)</i>		Terrorism <i>(100%)</i>	\$0	Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program. This project will assist in meeting Goal #1 Objective 1.1 and 1.2.	It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.
Project #1 Increase the city's		Tornado <i>(100%)</i>	\$0	Pursue grant funding sources to create a	It is not known yet where funding will come

<p>capability to mitigate effects of natural hazards (Emporia, City of)</p>			<p>communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	<p>from. When a source of funding is identified this plan will be updated.</p>
<p>Project #1 Increase the city's capability to mitigate effects of natural hazards (Emporia, City of)</p>		<p>Winter Storm (Snow, Ice, Sleet) (100%)</p>	<p>\$0 Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	<p>It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.</p>
<p>Project #1 All Hazards Warnings (Hartford, City of)</p>		<p>Dam Failure (100%)</p>	<p>\$0 This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	

<p>Project #1 All Hazards Warnings (Hartford, City of)</p>		<p>Extreme Temperatures (100%)</p>	<p>\$0</p>	<p>This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	
<p>Project #1 All Hazards Warnings (Hartford, City of)</p>		<p>Severe Thunderstorms/Lightning/High Winds (100%)</p>	<p>\$0</p>	<p>This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	
<p>Project #1 All Hazards Warnings (Hartford, City of)</p>		<p>Tornado (100%)</p>	<p>\$0</p>	<p>This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	
<p>Project #1 All Hazards Warnings (Hartford, City of)</p>		<p>Winter Storm (Snow, Ice, Sleet) (100%)</p>	<p>\$0</p>	<p>This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will</p>	

				assist in meeting Goal #1 Objective 1.1 and 1.2.	
Project #1 Protect Critical Services from Floods <i>(Neosho Rapids, City of)</i>		Flooding/Flash Flooding <i>(100%)</i>	\$5	This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program or volunteer labor from the community. This project will assist in meeting Goal #1 Objective 1.1.	
Project #1 Protect Critical Services from Floods <i>(Neosho Rapids, City of)</i>		Severe Thunderstorms/Lightning/High Winds <i>(100%)</i>	\$5	This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program or volunteer labor from the community. This project will assist in meeting Goal #1 Objective 1.1.	
Project #1 Protect Critical Services from Floods <i>(Neosho Rapids, City of)</i>		Terrorism <i>(100%)</i>	\$5	This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program or volunteer labor from the community. This project will assist in meeting Goal #1 Objective 1.1.	

			1.1.		
Project #2 City Hall Safety (Neosho Rapids, City of)		Severe Thunderstorms/Lightning/High Winds (100%)	\$0	<p>This will require the pursuit of grant funding sources. The City of Neosho Rapids would provide land for the project to be built on. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1.</p>	Cost estimate hasn't been provided yet.
Project #2 City Hall Safety (Neosho Rapids, City of)		Tornado (100%)	\$0	<p>This will require the pursuit of grant funding sources. The City of Neosho Rapids would provide land for the project to be built on. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1.</p>	Cost estimate hasn't been provided yet.
Project #3 Electrical Power (Neosho Rapids, City of)		Severe Thunderstorms/Lightning/High Winds (100%)	\$0	<p>This may also require the pursuit of grant funding sources. The City of Neosho Rapids will coordinate with electrical suppliers.</p> <p>This project will assist in meeting Goal #2 Objectives 1.1, 1.2 and</p>	Electrical Utilities may assist in this project. Some volunteer labor may even be used.

				1.3.	
Project #3 Electrical Power (Neosho Rapids, City of)		Tornado (100%)	\$0	This may also require the pursuit of grant funding sources. The City of Neosho Rapids will coordinate with electrical suppliers. This project will assist in meeting Goal #2 Objectives 1.1, 1.2 and 1.3.	Electrical Utilities may assist in this project. Some volunteer labor may even be used.
Project #3 Electrical Power (Neosho Rapids, City of)		Winter Storm (Snow, Ice, Sleet) (100%)	\$0	This may also require the pursuit of grant funding sources. The City of Neosho Rapids will coordinate with electrical suppliers. This project will assist in meeting Goal #2 Objectives 1.1, 1.2 and 1.3.	Electrical Utilities may assist in this project. Some volunteer labor may even be used.
City of Olpe Project #1 Safe Room (Olpe, City of)		Tornado (100%)	\$25	This will require the pursuit of grant funding sources. The City of Olpe may provide land or volunteer labor as a grant match. Grants that require matching funds will not be possible without a soft money match program. Hazards Mitigated: This will assist in meeting Goal #1, Objectives 1.1 and 1.3.	Cost estimate for a safe room is an estimate only. A grant would be only source of funding for this project. A grant that will allow a soft money match will be best.
City of Olpe Project #2 Emergency Power		Extreme Temperatures (100%)	\$7	This will require the pursuit of grant funding sources.	Grants such as the Assistance to Firefighters Grants (AFG) will

(Olpe, City of)				Hazards Mitigated: This will assist in meeting Goal 1, Objectives 1.3 and 1.4.	be looked at as a possible source of funding. It is unknown at this time how the proposal for a generator will be funded.
City of Olpe Project #2 Emergency Power (Olpe, City of)		Flooding/Flash Flooding (100%)	\$7	This will require the pursuit of grant funding sources. Hazards Mitigated: This will assist in meeting Goal 1, Objectives 1.3 and 1.4.	Grants such as the Assistance to Firefighters Grants (AFG) will be looked at as a possible source of funding. It is unknown at this time how the proposal for a generator will be funded.
City of Olpe Project #2 Emergency Power (Olpe, City of)		Severe Thunderstorms/Lightning/High Winds (100%)	\$7	This will require the pursuit of grant funding sources. Hazards Mitigated: This will assist in meeting Goal 1, Objectives 1.3 and 1.4.	Grants such as the Assistance to Firefighters Grants (AFG) will be looked at as a possible source of funding. It is unknown at this time how the proposal for a generator will be funded.
City of Olpe Project #2 Emergency Power (Olpe, City of)		Tornado (100%)	\$7	This will require the pursuit of grant funding sources. Hazards Mitigated: This will assist in meeting Goal 1, Objectives 1.3 and 1.4.	Grants such as the Assistance to Firefighters Grants (AFG) will be looked at as a possible source of funding. It is unknown at this time how the proposal for a generator will be funded.
City of Olpe Project #2 Emergency Power (Olpe, City of)		Winter Storm (Snow, Ice, Sleet) (100%)	\$7	This will require the pursuit of grant funding sources. Hazards Mitigated: This will assist in meeting Goal 1, Objectives 1.3 and 1.4.	Grants such as the Assistance to Firefighters Grants (AFG) will be looked at as a possible source of funding. It is unknown at this time how the proposal for a generator will be funded.
City of Olpe Project #3 Flood		Flooding/Flash Flooding (100%)	\$10	This will require the pursuit of grant funding	It has not been decided if the flood barrier will

<p>Protection (Olpe, City of)</p>			<p>sources. The City of Olpe may provide land or volunteer labor as a grant match. Grants that require matching funds will not be possible without a soft money match program.</p> <p>Hazards Mitigated: This will assist in meeting Olpe's Goal #1, Objectives 1.2, 1.3 and 1.4.</p>	<p>be a cement wall or an earthen berm or how it will be built. Until that is decided costs can only be estimated very roughly.</p>
<p>Project #2 Hazard Warning for Reading (Reading, City of)</p>		<p>Flooding/Flash Flooding (100%)</p>	<p>\$0 Pursue outside grant sources</p> <p>This will assist in meeting Goal #1 Objective 1.2.</p>	
<p>Project #2 Hazard Warning for Reading (Reading, City of)</p>		<p>Severe Thunderstorms/Lightning/High Winds (100%)</p>	<p>\$0 Pursue outside grant sources</p> <p>This will assist in meeting Goal #1 Objective 1.2.</p>	
<p>Project #2 Hazard Warning for Reading (Reading, City of)</p>		<p>Tornado (100%)</p>	<p>\$0 Pursue outside grant sources</p> <p>This will assist in meeting Goal #1 Objective 1.2.</p>	
<p>Project #3 Emergency Oxygen (Reading, City of)</p>		<p>Chemical (100%)</p>	<p>\$100 Pursue outside grant sources.</p> <p>This will assist in meeting Goal #2 Objective 2.2</p>	<p>City of Reading and the Reading Benefit Fire District may jointly pursue a source of funding for this project. It will require a grant of some kind.</p>
<p>Project #3 Emergency Oxygen (Reading, City of)</p>		<p>Terrorism (100%)</p>	<p>\$100 Pursue outside grant sources.</p> <p>This will assist in meeting Goal #2 Objective 2.2</p>	<p>City of Reading and the Reading Benefit Fire District may jointly pursue a source of funding for this project. It</p>

					will require a grant of some kind.
Project #3 Emergency Oxygen (Reading, City of)		Wolf Creek Generating Station (100%)	\$100	Pursue outside grant sources. This will assist in meeting Goal #2 Objective 2.2	City of Reading and the Reading Benefit Fire District may jointly pursue a source of funding for this project. It will require a grant of some kind.

Table 5 The projects are prioritized purely on the basis of the potential fatalities from the Primary Hazard (Dollar Amounts in Thousands).

Project Number	Est. Deaths	Hazard	Total Cost	Strategy	Funding
Lyon County Project #2 Acquisition, Relocation or Elevation (Lyon County)	0	Flooding/Flash Flooding (100%)	\$410	This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program. Lyon County will work with willing property owners in hazardous areas.	The estimated cost to buy out one critical facility alone is given. Lyon County does not have funds available for a project this size.
Lyon County Project: #1 Public Outreach Project (Lyon County)	0	Flooding/Flash Flooding (100%)	\$2	A one page two-sided letter about hazards, flood insurance, and County programs. This letter will be sent to every property owner in Lyon County. These outreach letters can be sent out with regularly mailed property tax statements from the County Appraiser's office. This method eliminates the	A request for funding from the County Commissioners was denied. There is \$500 for public outreach in the budget for Zoning. This money will be used to fund a partial outreach program each year until the end goal is achieved.

				cost of separate envelopes and postage. If funding can be found this will be completed in a year. This project may have to be completed in phases over a three to four year period with current funding.	
Lyon County Project: #1 Public Outreach Project (Lyon County)	0	Tornado (50%)	\$2	A one page two-sided letter about hazards, flood insurance, and County programs. This letter will be sent to every property owner in Lyon County. These outreach letters can be sent out with regularly mailed property tax statements from the County Appraiser's office. This method eliminates the cost of separate envelopes and postage. If funding can be found this will be completed in a year. This project may have to be completed in phases over a three to four year period with current funding.	A request for funding from the County Commissioners was denied. There is \$500 for public outreach in the budget for Zoning. This money will be used to fund a partial outreach program each year until the end goal is achieved.
Lyon County Project #2 Acquisition, Relocation or Elevation (Lyon County)		Dam Failure (100%)	\$410	This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money	The estimated cost to buy out one critical facility alone is given. Lyon County does not have funds available for a project this size.

				match program. Lyon County will work with willing property owners in hazardous areas.	
Lyon County Project: #1 Public Outreach Project (Lyon County)		Dam Failure (100%)	\$2	A one page two-sided letter about hazards, flood insurance, and County programs. This letter will be sent to every property owner in Lyon County. These outreach letters can be sent out with regularly mailed property tax statements from the County Appraiser's office. This method eliminates the cost of separate envelopes and postage. If funding can be found this will be completed in a year. This project may have to be completed in phases over a three to four year period with current funding.	A request for funding from the County Commissioners was denied. There is \$500 for public outreach in the budget for Zoning. This money will be used to fund a partial outreach program each year until the end goal is achieved.
Project #2 Shelter from Storm (Admire, City of)		Dam Failure (100%)	\$175	This will require approval of a bond or the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program. This project will assist in meeting Goal #2 Objectives	After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County Commissioners.

				#1.1,1.2 and 1.3.	
Project #1 Emergency Planning <i>(Americus, City of)</i>		Dam Failure <i>(100%)</i>	\$0	Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as planning and practice demonstrate the need. This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.	The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost to apply for grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.
Project #1 Increase the city's capability to mitigate effects of natural hazards <i>(Emporia, City of)</i>		Chemical <i>(100%)</i>	\$0	Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program. This project will assist in meeting Goal #1 Objective 1.1 and 1.2.	It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.
Project #1 Increase the city's capability to mitigate effects of natural hazards <i>(Emporia,</i>		Dam Failure <i>(100%)</i>	\$0	Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with	It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.

City of)				<p>space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	
<p>Project #1 Increase the city's capability to mitigate effects of natural hazards (Emporia, City of)</p>		<p>Flooding/Flash Flooding (100%)</p>	\$0	<p>Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	<p>It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.</p>
<p>Project #1 All Hazards Warnings (Hartford, City of)</p>		<p>Flooding/Flash Flooding (100%)</p>	\$0	<p>This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	
<p>Project #1 Increase the city's</p>		<p>Foreign Animal Diseases (FAD) (100%)</p>	\$0	<p>Pursue grant funding sources to create a</p>	<p>It is not known yet where funding will come</p>

<p>capability to mitigate effects of natural hazards (Emporia, City of)</p>			<p>communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	<p>from. When a source of funding is identified this plan will be updated.</p>
<p>Project #1 Increase the city's capability to mitigate effects of natural hazards (Emporia, City of)</p>		<p>Wolf Creek Generating Station (100%)</p>	<p>\$0 Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	<p>It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.</p>
<p>Project #2 Shelter from Storm (Admire, City of)</p>		<p>Chemical (100%)</p>	<p>\$175 This will require approval of a bond or the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will</p>	<p>After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County Commissioners.</p>

				assist in meeting Goal #2 Objectives #1.1,1.2 and 1.3.	
Project #2 Shelter from Storm <i>(Admire, City of)</i>		Flooding/Flash Flooding <i>(100%)</i>	\$175	This will require approval of a bond or the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program. This project will assist in meeting Goal #2 Objectives #1.1,1.2 and 1.3.	After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County Commissioners.
Project #2 Shelter from Storm <i>(Admire, City of)</i>		Foreign Animal Diseases (FAD) <i>(100%)</i>	\$175	This will require approval of a bond or the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program. This project will assist in meeting Goal #2 Objectives #1.1,1.2 and 1.3.	After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County Commissioners.
Project #2 Shelter from Storm <i>(Admire, City of)</i>		Severe Thunderstorms/Lightning/High Winds <i>(100%)</i>	\$175	This will require approval of a bond or the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program. This project will assist in meeting Goal #2 Objectives	After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County Commissioners.

				#1.1,1.2 and 1.3.	
Project #2 Shelter from Storm (Admire, City of)		Terrorism (100%)	\$175	This will require approval of a bond or the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program. This project will assist in meeting Goal #2 Objectives #1.1,1.2 and 1.3.	After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County Commissioners.
Project #2 Shelter from Storm (Admire, City of)		Tornado (100%)	\$175	This will require approval of a bond or the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program. This project will assist in meeting Goal #2 Objectives #1.1,1.2 and 1.3.	After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County Commissioners.
Project #2 Shelter from Storm (Admire, City of)		Winter Storm (Snow, Ice, Sleet) (100%)	\$175	This will require approval of a bond or the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program. This project will assist in meeting Goal #2 Objectives #1.1,1.2 and 1.3.	After this plan was submitted to FEMA a bond was approved for Fire District #2 by the County Commissioners.
Project #3		Chemical	\$100	Pursue outside	City of Reading

Emergency Oxygen (Reading, City of)		(100%)		grant sources. This will assist in meeting Goal #2 Objective 2.2	and the Reading Benefit Fire District may jointly pursue a source of funding for this project. It will require a grant of some kind.
Project #3 Emergency Oxygen (Reading, City of)		Terrorism (100%)	\$100	Pursue outside grant sources. This will assist in meeting Goal #2 Objective 2.2	City of Reading and the Reading Benefit Fire District may jointly pursue a source of funding for this project. It will require a grant of some kind.
Project #3 Emergency Oxygen (Reading, City of)		Wolf Creek Generating Station (100%)	\$100	Pursue outside grant sources. This will assist in meeting Goal #2 Objective 2.2	City of Reading and the Reading Benefit Fire District may jointly pursue a source of funding for this project. It will require a grant of some kind.
Project #1 Tornado Safety (Bushong, City of)		Tornado (100%)	\$50	This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program. City owned land in Bushong could be made available for this project. This project will assist in meeting Goal #1 Objectives 1.1 and 1.2.	This project can only be funded if a grant can be found.
City of Olpe Project #1 Safe Room (Olpe, City of)		Tornado (100%)	\$25	This will require the pursuit of grant funding sources. The City of Olpe may provide land or volunteer labor as a grant match. Grants	Cost estimate for a safe room is an estimate only. A grant would be only source of funding for this project. A grant that will allow a soft money match will be

				that require matching funds will not be possible without a soft money match program. Hazards Mitigated: This will assist in meeting Goal #1, Objectives 1.1 and 1.3.	best.
City of Olpe Project #3 Flood Protection <i>(Olpe, City of)</i>		Flooding/Flash Flooding <i>(100%)</i>	\$10	This will require the pursuit of grant funding sources. The City of Olpe may provide land or volunteer labor as a grant match. Grants that require matching funds will not be possible without a soft money match program. Hazards Mitigated: This will assist in meeting Olpe's Goal #1, Objectives 1.2, 1.3 and 1.4.	It has not been decided if the flood barrier will be a cement wall or an earthen berm or how it will be built. Until that is decided costs can only be estimated very roughly.
City of Olpe Project #2 Emergency Power <i>(Olpe, City of)</i>		Extreme Temperatures <i>(100%)</i>	\$7	This will require the pursuit of grant funding sources. Hazards Mitigated: This will assist in meeting Goal 1, Objectives 1.3 and 1.4.	Grants such as the Assistance to Firefighters Grants (AFG) will be looked at as a possible source of funding. It is unknown at this time how the proposal for a generator will be funded.
City of Olpe Project #2 Emergency Power <i>(Olpe, City of)</i>		Flooding/Flash Flooding <i>(100%)</i>	\$7	This will require the pursuit of grant funding sources. Hazards Mitigated: This will assist in meeting Goal 1, Objectives 1.3 and 1.4.	Grants such as the Assistance to Firefighters Grants (AFG) will be looked at as a possible source of funding. It is unknown at this time how the proposal for a generator will be

					funded.
City of Olpe Project #2 Emergency Power (Olpe, City of)		Severe Thunderstorms/Lightning/High Winds (100%)	\$7	This will require the pursuit of grant funding sources. Hazards Mitigated: This will assist in meeting Goal 1, Objectives 1.3 and 1.4.	Grants such as the Assistance to Firefighters Grants (AFG) will be looked at as a possible source of funding. It is unknown at this time how the proposal for a generator will be funded.
City of Olpe Project #2 Emergency Power (Olpe, City of)		Tornado (100%)	\$7	This will require the pursuit of grant funding sources. Hazards Mitigated: This will assist in meeting Goal 1, Objectives 1.3 and 1.4.	Grants such as the Assistance to Firefighters Grants (AFG) will be looked at as a possible source of funding. It is unknown at this time how the proposal for a generator will be funded.
City of Olpe Project #2 Emergency Power (Olpe, City of)		Winter Storm (Snow, Ice, Sleet) (100%)	\$7	This will require the pursuit of grant funding sources. Hazards Mitigated: This will assist in meeting Goal 1, Objectives 1.3 and 1.4.	Grants such as the Assistance to Firefighters Grants (AFG) will be looked at as a possible source of funding. It is unknown at this time how the proposal for a generator will be funded.
Project #1 Maintain Critical Services (Admire, City of)		Severe Thunderstorms/Lightning/High Winds (100%)	\$7	An 11kw diesel generator at GoPower.com was listed for \$6,999. The City of Admire does not have money available for this without an outside source of funding. This will require the pursuit of grant funding sources. Grants that require matching funds may not be possible without a soft money match program.	This could become a joint project between City of Admire and Fire District #2.

				This will assist in meeting Goal #1 Objective 1.1	
Project #1 Maintain Critical Services <i>(Admire, City of)</i>		Tornado <i>(100%)</i>	\$7	An 11kw diesel generator at GoPower.com was listed for \$6,999. The City of Admire does not have money available for this without an outside source of funding. This will require the pursuit of grant funding sources. Grants that require matching funds may not be possible without a soft money match program. This will assist in meeting Goal #1 Objective 1.1	This could become a joint project between City of Admire and Fire District #2.
Project #1 Maintain Critical Services <i>(Admire, City of)</i>		Winter Storm (Snow, Ice, Sleet) <i>(100%)</i>	\$7	An 11kw diesel generator at GoPower.com was listed for \$6,999. The City of Admire does not have money available for this without an outside source of funding. This will require the pursuit of grant funding sources. Grants that require matching funds may not be possible without a soft money match program. This will assist in meeting Goal #1 Objective 1.1	This could become a joint project between City of Admire and Fire District #2.

<p>Project #1 Protect Critical Services from Floods <i>(Neosho Rapids, City of)</i></p>		<p>Flooding/Flash Flooding <i>(100%)</i></p>	<p>\$5 This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program or volunteer labor from the community.</p> <p>This project will assist in meeting Goal #1 Objective 1.1.</p>	
<p>Project #1 Protect Critical Services from Floods <i>(Neosho Rapids, City of)</i></p>		<p>Severe Thunderstorms/Lightning/High Winds <i>(100%)</i></p>	<p>\$5 This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program or volunteer labor from the community.</p> <p>This project will assist in meeting Goal #1 Objective 1.1.</p>	
<p>Project #1 Protect Critical Services from Floods <i>(Neosho Rapids, City of)</i></p>		<p>Terrorism <i>(100%)</i></p>	<p>\$5 This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program or volunteer labor from the community.</p> <p>This project will assist in meeting Goal #1 Objective 1.1.</p>	
<p>Project #2 Tornado Warning</p>		<p>Tornado <i>(100%)</i></p>	<p>\$4 This will require the pursuit of grant funding</p>	<p>This will require a grant to fund this project.</p>

<p>(Bushong, City of)</p>			<p>sources. Grants that require matching funds will not be possible without a soft money match program. City owned land in Bushong could be made available for this project. If possible, this project could be combined with the tornado safety project of a community shelter.</p> <p>This project will assist in meeting Goal #2 Objective 1.1 and 1.2.</p>	<p>USDA Rural Development may be a source of funding.</p>
<p>Project #1 Emergency Planning (Americus, City of)</p>		<p>Chemical (100%)</p>	<p>\$0 Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as planning and practice demonstrate the need.</p> <p>This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.</p>	<p>The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost to apply for grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.</p>
<p>Project #1 Emergency Planning (Americus, City of)</p>		<p>Flooding/Flash Flooding (100%)</p>	<p>\$0 Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant</p>	<p>The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost</p>

			sources as planning and practice demonstrate the need. This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.	to apply for grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.
Project #1 Emergency Planning <i>(Americus, City of)</i>		Foreign Animal Diseases (FAD) <i>(100%)</i>	\$0 Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as planning and practice demonstrate the need. This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.	The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost to apply for grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.
Project #1 Emergency Planning <i>(Americus, City of)</i>		Severe Thunderstorms/Lightning/High Winds <i>(100%)</i>	\$0 Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as planning and practice demonstrate the need. This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.	The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost to apply for grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.

<p>Project #1 Emergency Planning <i>(Americus, City of)</i></p>		<p>Terrorism <i>(100%)</i></p>	<p>\$0 Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as planning and practice demonstrate the need.</p> <p>This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.</p>	<p>The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost to apply for grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.</p>
<p>Project #1 Emergency Planning <i>(Americus, City of)</i></p>		<p>Tornado <i>(100%)</i></p>	<p>\$0 Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as planning and practice demonstrate the need.</p> <p>This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.</p>	<p>The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost to apply for grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.</p>
<p>Project #1 Emergency Planning <i>(Americus, City of)</i></p>		<p>Winter Storm (Snow, Ice, Sleet) <i>(100%)</i></p>	<p>\$0 Create a Emergency Awareness Plan in cooperation with the Lyon County Sheriff's Office, Americus Volunteer Fire Department and Americus Police Department. Pursue grant sources as</p>	<p>The costs to hold initial Planning Meetings will be minimal. Some of those at the meeting are already on salary as community officials. Others will be volunteers. There is no cost to apply for</p>

				<p>planning and practice demonstrate the need.</p> <p>This project will assist in meeting Goal #1 Objectives 1.1, 1.2 and 1.3.</p>	<p>grants. If it is later determined to apply for a grant that requires a local match that amount can be added in to this section.</p>
<p>Project #1 All Hazards Warnings <i>(Hartford, City of)</i></p>		<p>Dam Failure <i>(100%)</i></p>	<p>\$0</p>	<p>This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	
<p>Project #1 Increase the city's capability to mitigate effects of natural hazards <i>(Emporia, City of)</i></p>		<p>Extreme Temperatures <i>(100%)</i></p>	<p>\$0</p>	<p>Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	<p>It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.</p>
<p>Project #1 All Hazards Warnings <i>(Hartford, City of)</i></p>		<p>Extreme Temperatures <i>(100%)</i></p>	<p>\$0</p>	<p>This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without</p>	

				<p>a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	
<p>Project #2 Hazard Warning for Reading <i>(Reading, City of)</i></p>		<p>Flooding/Flash Flooding <i>(100%)</i></p>	<p>\$0</p>	<p>Pursue outside grant sources</p> <p>This will assist in meeting Goal #1 Objective 1.2.</p>	
<p>Project #1 Increase the city's capability to mitigate effects of natural hazards <i>(Emporia, City of)</i></p>		<p>Severe Thunderstorms/Lightning/High Winds <i>(100%)</i></p>	<p>\$0</p>	<p>Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	<p>It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.</p>
<p>Project #1 All Hazards Warnings <i>(Hartford, City of)</i></p>		<p>Severe Thunderstorms/Lightning/High Winds <i>(100%)</i></p>	<p>\$0</p>	<p>This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	
<p>Project #2 City Hall Safety <i>(Neosho)</i></p>		<p>Severe Thunderstorms/Lightning/High Winds <i>(100%)</i></p>	<p>\$0</p>	<p>This will require the pursuit of grant funding sources. The</p>	<p>Cost estimate hasn't been provided yet.</p>

Rapids, City of)				<p>City of Neosho Rapids would provide land for the project to be built on. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1.</p>	
<p>Project #3 Electrical Power (Neosho Rapids, City of)</p>		<p>Severe Thunderstorms/Lightning/High Winds (100%)</p>	\$0	<p>This may also require the pursuit of grant funding sources. The City of Neosho Rapids will coordinate with electrical suppliers.</p> <p>This project will assist in meeting Goal #2 Objectives 1.1, 1.2 and 1.3.</p>	<p>Electrical Utilities may assist in this project. Some volunteer labor may even be used.</p>
<p>Project #2 Hazard Warning for Reading (Reading, City of)</p>		<p>Severe Thunderstorms/Lightning/High Winds (100%)</p>	\$0	<p>Pursue outside grant sources</p> <p>This will assist in meeting Goal #1 Objective 1.2.</p>	
<p>Project #1 Increase the city's capability to mitigate effects of natural hazards (Emporia, City of)</p>		<p>Terrorism (100%)</p>	\$0	<p>Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money</p>	<p>It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.</p>

				<p>match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	
<p>Project #1 Increase the city's capability to mitigate effects of natural hazards <i>(Emporia, City of)</i></p>		<p>Tornado <i>(100%)</i></p>	<p>\$0</p>	<p>Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	<p>It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.</p>
<p>Project #1 All Hazards Warnings <i>(Hartford, City of)</i></p>		<p>Tornado <i>(100%)</i></p>	<p>\$0</p>	<p>This will require the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	
<p>Project #2 City Hall Safety <i>(Neosho Rapids, City of)</i></p>		<p>Tornado <i>(100%)</i></p>	<p>\$0</p>	<p>This will require the pursuit of grant funding sources. The City of Neosho Rapids would provide land for the project to be built on. Grants that require matching funds</p>	<p>Cost estimate hasn't been provided yet.</p>

				will not be possible without a soft money match program. This project will assist in meeting Goal #1 Objective 1.1.	
Project #3 Electrical Power (Neosho Rapids, City of)		Tornado (100%)	\$0	This may also require the pursuit of grant funding sources. The City of Neosho Rapids will coordinate with electrical suppliers. This project will assist in meeting Goal #2 Objectives 1.1, 1.2 and 1.3.	Electrical Utilities may assist in this project. Some volunteer labor may even be used.
Project #2 Hazard Warning for Reading (Reading, City of)		Tornado (100%)	\$0	Pursue outside grant sources This will assist in meeting Goal #1 Objective 1.2.	
Project #1 Increase the city's capability to mitigate effects of natural hazards (Emporia, City of)		Winter Storm (Snow, Ice, Sleet) (100%)	\$0	Pursue grant funding sources to create a communications center with phone lines at the water treatment plant, with space for a State communications trailer. Grants that require matching funds may not be possible without a soft money match program. This project will assist in meeting Goal #1 Objective 1.1 and 1.2.	It is not known yet where funding will come from. When a source of funding is identified this plan will be updated.
Project #1		Winter Storm (Snow, Ice,	\$0	This will require	

<p>All Hazards Warnings (Hartford, City of)</p>		<p>Sleet) (100%)</p>	<p>the pursuit of grant funding sources. Grants that require matching funds will not be possible without a soft money match program.</p> <p>This project will assist in meeting Goal #1 Objective 1.1 and 1.2.</p>	
<p>Project #3 Electrical Power (Neosho Rapids, City of)</p>		<p>Winter Storm (Snow, Ice, Sleet) (100%)</p>	<p>\$0 This may also require the pursuit of grant funding sources. The City of Neosho Rapids will coordinate with electrical suppliers.</p> <p>This project will assist in meeting Goal #2 Objectives 1.1, 1.2 and 1.3.</p>	<p>Electrical Utilities may assist in this project. Some volunteer labor may even be used.</p>

5.5 Capability Assessment

Lyon County Capability Assessment

Storm Water Management Ordinances: **Yes (Emporia ETJ)**

Stream Maintenance Ordinances: **No**

Zoning Management Ordinances: **Yes**

Subdivision Management Ordinances: **Yes**

Erosion Management Ordinances: **No**

Floodplain Management Ordinances: **Yes**

Fire Insurance Rating:

Floodplain Management Plan Published Date: **5/1/2006**

Floodplain Management Last Delineation Date:

Elevation Certificates Maintained: **Yes**

National Flood Insurance Program Community: **Yes**

National Flood Insurance Program Join Date: **11/17/1982**

National Flood Insurance Program Number: **200201**

National Flood Insurance Program Rating: **9**

National Flood Insurance Program Rating Date: **10/1/2007**

National Flood Insurance Program Description: **We have a letter from Insurance Services Office, Inc. that says we have 534 points verified. The letter is dated 10/23/2006 and signed by Bill Baker. It says we should hear about acceptance by FEMA within 2 months. It says the flood insurance premium discounts will become effective on October 1, 2007. Copies of this letter can be provided upon request.**

Flood Insurance Claims: **Three Repetitive Loss properties in unincorporated Lyon County. Two Repetitive Loss properties are southwest of Emporia near the Cottonwood River. One Repetitive Loss property is close to the Neosho River near Americus.**

One Repetitive Loss property in Emporia's Metropolitan Growth Area is south of Emporia close to Hwy 99.

There is one Repetitive Loss property in City Limits of Emporia. It is a hotel that has storm water problems and is not in a mapped flood zone.

Land Use Plan: **Yes**

Land Use Plan Last Update:

Community Zoned: **Yes**

Zoned Date: **11/8/1979**

Established Building Codes: **Yes**

Building Codes Last Updated:

Type of Building Codes: **Uniform Building Codes**

Local Electric Utilities: **Westar Energy Inc., and Lyon-Coffey Rural Electric Coop**

Local Water Utilities: **City of Emporia Water, supplied to RWD's**

Local Sewage Treatment Utilities: **City Sewer for incorporated areas.**

Local Natural Gas Utilities: **Kansas Gas Service, Atmos Energy, Aquila, Americus Gas Co.**

Local Telephone Utilities: **A T & T, Birch Telecom, Fairpoint Communications**

City of Admire Capability Assessment

Storm Water Management Ordinances: **No**

Stream Maintenance Ordinances: **No**

Zoning Management Ordinances: **No**

Subdivision Management Ordinances: **No**

Erosion Management Ordinances: **No**

Floodplain Management Ordinances: **No**

Fire Insurance Rating:

Floodplain Management Plan Published Date:

Floodplain Management Last Delineation Date:

Elevation Certificates Maintained: **No**

National Flood Insurance Program Community: **No**

National Flood Insurance Program Join Date:

National Flood Insurance Program Number:

National Flood Insurance Program Rating:

National Flood Insurance Program Rating Date:

National Flood Insurance Program Description:

Flood Insurance Claims:

Land Use Plan: **No**

Land Use Plan Last Update:

Community Zoned: **No**

Zoned Date:

Established Building Codes: **No**

Building Codes Last Updated:

Type of Building Codes:

Local Electric Utilities: **Westar Energy & Lyon Coffey Rural Electric**

Local Water Utilities: **City of Emporia supplies rural water district**

Local Sewage Treatment Utilities: **City Owned**

Local Natural Gas Utilities: **Kansas Gas Service**

Local Telephone Utilities: **AT&T / SBC**

City of Allen Capability Assessment

Storm Water Management Ordinances: **No**

Stream Maintenance Ordinances: **No**

Zoning Management Ordinances: **No**

Subdivision Management Ordinances: **No**

Erosion Management Ordinances: **No**

Floodplain Management Ordinances: **No**

Fire Insurance Rating:

Floodplain Management Plan Published Date:

Floodplain Management Last Delineation Date:

Elevation Certificates Maintained: **No**

National Flood Insurance Program Community: **No**

National Flood Insurance Program Join Date:

National Flood Insurance Program Number:

National Flood Insurance Program Rating:

National Flood Insurance Program Rating Date:

National Flood Insurance Program Description:

Flood Insurance Claims:

Land Use Plan: **No**

Land Use Plan Last Update:

Community Zoned: **No**

Zoned Date:

Established Building Codes: **No**

Building Codes Last Updated:

Type of Building Codes:

Local Electric Utilities: **Westar Energy & Lyon Coffey Rural Electric**

Local Water Utilities: **City of Emporia supplies Rural Water District**

Local Sewage Treatment Utilities: **City Owned**

Local Natural Gas Utilities: **Kansas Gas Service**

Local Telephone Utilities: **AT&T / SBC / S & A Telephone Co.**

City of Americus Capability Assessment

Storm Water Management Ordinances: **No**

Stream Maintenance Ordinances: **No**

Zoning Management Ordinances: **No**

Subdivision Management Ordinances: **No**

Erosion Management Ordinances: **No**

Floodplain Management Ordinances: **Yes**

Fire Insurance Rating:

Floodplain Management Plan Published Date:

Floodplain Management Last Delineation Date:

Elevation Certificates Maintained: **No**

National Flood Insurance Program Community: **Yes**

National Flood Insurance Program Join Date: **4/15/1982**

National Flood Insurance Program Number: **200202**

National Flood Insurance Program Rating:

National Flood Insurance Program Rating Date:

National Flood Insurance Program Description:

Flood Insurance Claims:

Land Use Plan: **No**

Land Use Plan Last Update:

Community Zoned: **No**

Zoned Date:

Established Building Codes: **No**

Building Codes Last Updated:

Type of Building Codes:

Local Electric Utilities: **Westar & Lyon Coffey Rural Electric**

Local Water Utilities: **City of Emporia supplies Rural Water District**

Local Sewage Treatment Utilities: **City Owned**

Local Natural Gas Utilities: **Kansas Gas Service**

Local Telephone Utilities: **AT&T / SBC / Fairpoint**

City of Bushong Capability Assessment

Storm Water Management Ordinances: **No**

Stream Maintenance Ordinances: **No**

Zoning Management Ordinances: **No**

Subdivision Management Ordinances: **No**

Erosion Management Ordinances: **No**

Floodplain Management Ordinances: **No**

Fire Insurance Rating:

Floodplain Management Plan Published Date:

Floodplain Management Last Delineation Date:

Elevation Certificates Maintained: **No**

National Flood Insurance Program Community: **No**

National Flood Insurance Program Join Date:

National Flood Insurance Program Number:

National Flood Insurance Program Rating:

National Flood Insurance Program Rating Date:

National Flood Insurance Program Description:

Flood Insurance Claims:

Land Use Plan: **No**

Land Use Plan Last Update:

Community Zoned: **No**

Zoned Date:

Established Building Codes: **No**

Building Codes Last Updated:

Type of Building Codes:

Local Electric Utilities: **Westar Energy & Lyon Coffey Rural Electric**

Local Water Utilities: **City of Emporia supplies Rural Water District**

Local Sewage Treatment Utilities: **City Owned**

Local Natural Gas Utilities:

Local Telephone Utilities: **AT&T / SBC**

City of Emporia Capability Assessment

Storm Water Management Ordinances: **Yes**

Stream Maintenance Ordinances: **Yes**

Zoning Management Ordinances: **Yes**

Subdivision Management Ordinances: **Yes**

Erosion Management Ordinances: **No**

Floodplain Management Ordinances: **Yes**

Fire Insurance Rating:

Floodplain Management Plan Published Date:

Floodplain Management Last Delineation Date:

Elevation Certificates Maintained: **Yes**

National Flood Insurance Program Community: **Yes**

National Flood Insurance Program Join Date: **10/2/1979**

National Flood Insurance Program Number: **200203 0005**

National Flood Insurance Program Rating:

National Flood Insurance Program Rating Date: **12/29/1981**

National Flood Insurance Program Description:

Flood Insurance Claims: **1 Repetitive Loss property in Emporia.**

Land Use Plan: **No**

Land Use Plan Last Update:

Community Zoned: **Yes**

Zoned Date:

Established Building Codes: **Yes**

Building Codes Last Updated:

Type of Building Codes: **UBC**

Local Electric Utilities: **Westar Energy**

Local Water Utilities: **City of Emporia Water**

Local Sewage Treatment Utilities: **City of Emporia**

Local Natural Gas Utilities: **Kansas Gas Service / Aquila**

Local Telephone Utilities: **SBC / AT&T**

City of Hartford Capability Assessment

Storm Water Management Ordinances: **No**

Stream Maintenance Ordinances: **No**

Zoning Management Ordinances: **No**

Subdivision Management Ordinances: **No**

Erosion Management Ordinances: **No**

Floodplain Management Ordinances: **No**

Fire Insurance Rating:

Floodplain Management Plan Published Date:

Floodplain Management Last Delineation Date:

Elevation Certificates Maintained: **No**

National Flood Insurance Program Community: **No**

National Flood Insurance Program Join Date:

National Flood Insurance Program Number:

National Flood Insurance Program Rating:

National Flood Insurance Program Rating Date:

National Flood Insurance Program Description:

Flood Insurance Claims:

Land Use Plan: **No**

Land Use Plan Last Update:

Community Zoned: **No**

Zoned Date:

Established Building Codes: **No**

Building Codes Last Updated:

Type of Building Codes:

Local Electric Utilities: **Westar Energy & Lyon Coffey Rural Electric**

Local Water Utilities: **City of Emporia supplies Rural Water District**

Local Sewage Treatment Utilities: **City Owned**

Local Natural Gas Utilities: **Kansas Gas Service / Aquila**

Local Telephone Utilities: **AT&T / SBC**

City of Neosho Rapids Capability Assessment

Storm Water Management Ordinances: **No**

Stream Maintenance Ordinances: **No**

Zoning Management Ordinances: **No**

Subdivision Management Ordinances: **No**

Erosion Management Ordinances: **No**

Floodplain Management Ordinances: **No**

Fire Insurance Rating:

Floodplain Management Plan Published Date:

Floodplain Management Last Delineation Date:

Elevation Certificates Maintained: **No**

National Flood Insurance Program Community: **No**

National Flood Insurance Program Join Date:

National Flood Insurance Program Number:

National Flood Insurance Program Rating:

National Flood Insurance Program Rating Date:

National Flood Insurance Program Description:

Flood Insurance Claims:

Land Use Plan: **No**

Land Use Plan Last Update:

Community Zoned: **No**

Zoned Date:

Established Building Codes: **No**

Building Codes Last Updated:

Type of Building Codes:

Local Electric Utilities: **Westar Energy & Lyon Coffey Rural Electric**

Local Water Utilities: **City of Emporia supplies Rural Water District**

Local Sewage Treatment Utilities: **City Owned**

Local Natural Gas Utilities: **Kansas Gas Service / Aquila**

Local Telephone Utilities: **AT&T / SBC**

City of Olpe Capability Assessment

Storm Water Management Ordinances: **No**

Stream Maintenance Ordinances: **No**

Zoning Management Ordinances: **No**

Subdivision Management Ordinances: **No**

Erosion Management Ordinances: **No**

Floodplain Management Ordinances: **No**

Fire Insurance Rating:

Floodplain Management Plan Published Date:

Floodplain Management Last Delineation Date:

Elevation Certificates Maintained: **No**

National Flood Insurance Program Community: **No**

National Flood Insurance Program Join Date:

National Flood Insurance Program Number:

National Flood Insurance Program Rating:

National Flood Insurance Program Rating Date:

National Flood Insurance Program Description:

Flood Insurance Claims:

Land Use Plan: **No**

Land Use Plan Last Update:

Community Zoned: **No**

Zoned Date:

Established Building Codes: **No**

Building Codes Last Updated:

Type of Building Codes:

Local Electric Utilities: **Westar Energy & Lyon Coffey Rural Electric**

Local Water Utilities: **City of Emporia supplies Rural Water Districts**

Local Sewage Treatment Utilities: **City Owned**

Local Natural Gas Utilities: **Aquila**

Local Telephone Utilities: **AT&T / SBC**

City of Reading Capability Assessment

Storm Water Management Ordinances: **No**

Stream Maintenance Ordinances: **No**

Zoning Management Ordinances: **No**

Subdivision Management Ordinances: **No**

Erosion Management Ordinances: **No**

Floodplain Management Ordinances: **No**

Fire Insurance Rating:

Floodplain Management Plan Published Date:

Floodplain Management Last Delineation Date:

Elevation Certificates Maintained: **No**

National Flood Insurance Program Community: **No**

National Flood Insurance Program Join Date:

National Flood Insurance Program Number:

National Flood Insurance Program Rating:

National Flood Insurance Program Rating Date:

National Flood Insurance Program Description:

Flood Insurance Claims:

Land Use Plan: **No**

Land Use Plan Last Update:

Community Zoned: **No**

Zoned Date:

Established Building Codes: **No**

Building Codes Last Updated:

Type of Building Codes:

Local Electric Utilities: **Westar Energy & Lyon Coffey Rural Electric**

Local Water Utilities: **City of Emporia supplies all rural water districts**

Local Sewage Treatment Utilities: **City Owned**

Local Natural Gas Utilities: **Kansas Gas Service**

Local Telephone Utilities: **AT&T / SBC**