

**Pike County
Missouri
Natural Hazard Mitigation Plan
Five Year Update**

Section 9

Frankford

Pike County, Missouri

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City Profile----Frankford

History of Frankford

Frankford located in the scenic hills of the northwest Pike County was laid out in 1819 and incorporated in 1859. By 1883 it had a population of approximately 500 people. Frankford boasted of some 36 places of business.

Mineral springs were found near Frankford and at one time, a sanitarium was established there. Limestone and porous rock have been eroded by the underground waters, and an immense cave, nearly three-fourths of a mile long was discovered running under the hills of Frankford in the late 1800's.

The principal industry of this area has been agriculture. The Short Line Railroad (also known as the St. Louis, Hannibal and Keokuk) ran through the township. It is no longer operational.



Form of Government

Frankford's city government is Mayor and Board of Aldermen. Frankford has two wards and has two alderman elected from each ward.

Population and Demographics

Frankford has a diverse population by age. . The median age in Frankford is 38.9 years. The population under the age of five years is 4.3%. Senior citizens, those over the age of 65, constitute 14.2% of the Frankford total population compared to 13.5% for the state of Missouri. These two groups, along with the children of school age will be given special consideration when planning mitigation actions for Frankford.

City of Frankford	2000 Census	
Population Density	Number	Percent
Total Persons	351	100
Number of Households	148	xx
Average Household Size	2.37 persons	xx
Source: 2000 U.S. Census		

City of Frankford	2000 Census	
Population by Age Group	Number	Percent
Under 5 years	15	4.3
Between 5 and 19 years	83	23.7
Between 20 and 64 years	203	57.8
65 years and over	50	14.2
Median age	38.9 years	xx
Source: 2000 U.S. Census		

Utilities

Water Supplied by: Clarence Cannon Wholesale Water

Wastewater Treatment Supplied by: City of Frankford

Electricity Supplied by: AmerenUE

Gas None

Employment

Frankford has a diverse work force as seen in Table 3. The 2000 Census records show that Frankford had an unemployment rate of 3.7% out of total work force of 164 persons. These workers had a mean travel time to work of 33.2 minutes and their median household income was \$26,406. The statistics show that over 21% of the work force is professional or management. An additional 28.5% is in service, sales and office employment. Construction, maintenance, production and transportation account for an additional 48%.

City of Frankford	2000 Census	
Occupation	Number	Percent
Management, Professional	34	21.5
Service occupations	15	9.5
Sales and office occupations	30	19.0
Farming, fishing, and forestry	3	1.9
Construction and maintenance	19	12.0
Production and transportation	57	36.1
Total civilians employed	158	xx
Unemployment rate	6	3.7
Mean Travel time to work	33.2 minutes	xx
Median Household Income	\$26,406	xx
Persons below poverty level	43	13.1
Source: 2000 U.S. Census		

Frankford has no major employers (over 100 employees) within the city limits. Most workers commute to other parts of Pike, Ralls, Marion, and Lincoln counties

Education

The tables below show Frankford's education profile. At least 72% of those over 25 years of age have at least earned their high school diploma. Over 12 % of those have gone on to obtain an Associate, Bachelor, or advanced college degree.

City of Frankford	2000 Census	
Education Profile	Number	Percent
Total Persons over 25 years old	223	100
Less than High School Degree	62	27.8
High School Graduate	118	53.0
Some college	15	6.7
Associate or Bachelor Degree	22	9.8
Post-graduate or Professional Degree	6	2.7
Source: 2000 U.S. Census		

City of Frankford	2000 Census	
	Educational Enrollment	Number
Total Persons enrolled in school	80	100
Nursery, pre-school	0	0.0
Kindergarten	4	5.0
Elementary (1 – 8)	41	51.2
High School (9 – 12)	30	37.5
College or graduate school	5	6.3
Source: 2000 U.S. Census		

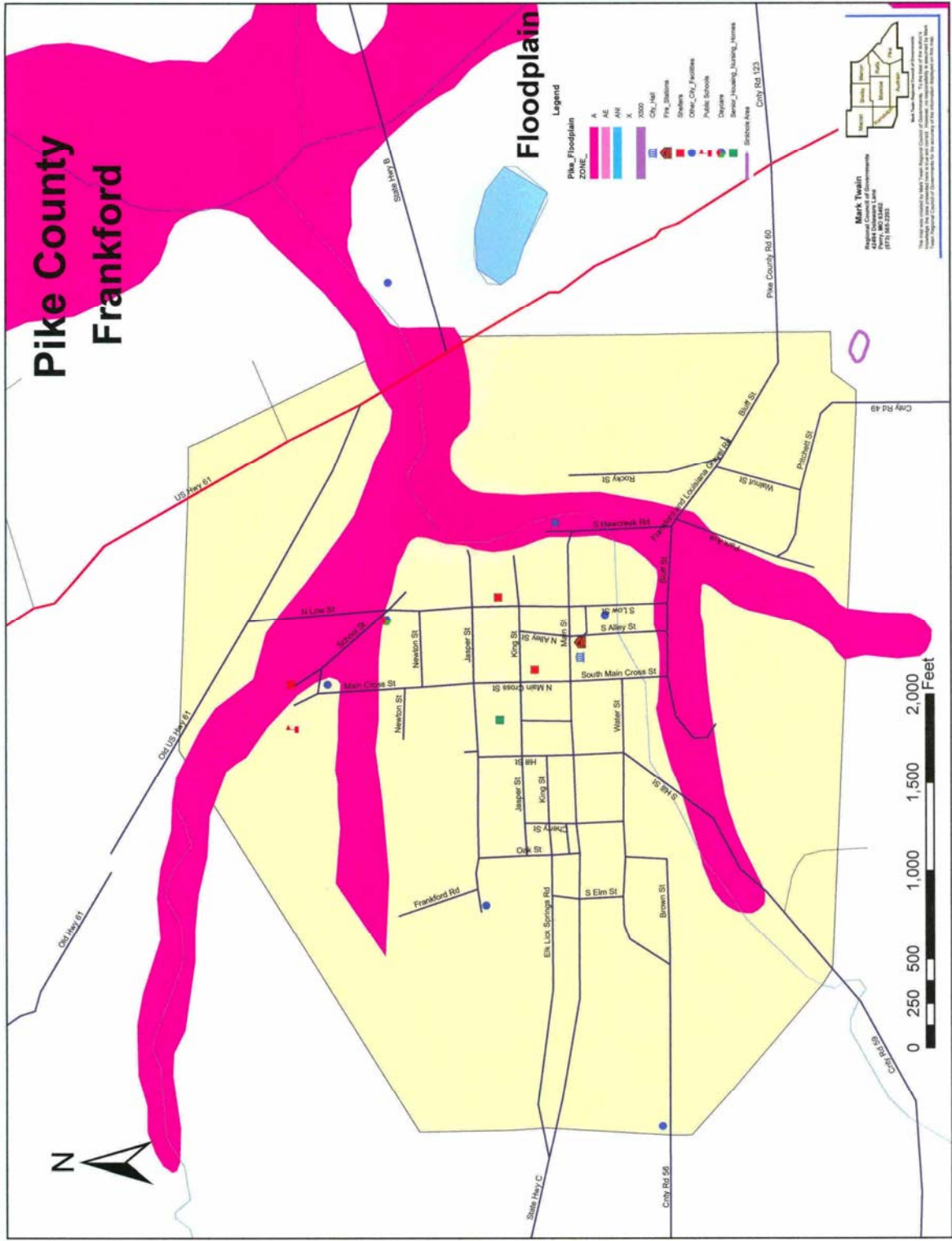
Students in Frankford are in the Bowling Green School District R-I. Frankford has its own elementary school in the city limits. The middle and high school students go to Bowling Green to finish their education.

Name	Location	Students	Staff
Bowling Green R-I			
Frankford Elementary	500 School St., Frankford	81	14
Bowling Green Middle	700 W. Adams, Bowling Green	369	29
Bowling Green High	700 W. Adams, Bowling Green	485	39

Frankford’s Participation in NFIP (National Flood Insurance Program)

	Date joined NFIP	Policies in Force	Insurance in Force	Number of claims	Total Payments 1978-2009
Frankford					

Frankford currently does not participate in the NFIP. To date there has been no flooding along the creeks that run through the city of Frankford. The city has set up a committee to investigate joining within the next year. (see Mitigation Action Items) FEMA has re-mapped the floodplain for Pike County including the city of Frankford which will go into effect in 2010. The map on the following page shows the extent of the current (old) Floodplain in the Frankford area.



Floodplain Zones on FIRM maps

- Zone A Flood hazard area inundated by 100-year flood. No base flood elevations determined.
- Zone AE Flood hazard area inundated by 100-year flood. Base flood elevations determined
- Zone X Areas of 500-year flood

Vulnerabilities

Public and Critical Facilities

Name	Location	City
U.S. Facilities		
U.S. Post Office	Main St.	Frankford
Missouri Facilities		
MODOT Maintenance	Highway 61 S.	Frankford
City Of Frankford Facilities		
Frankford City Hall	Main St.	Frankford
Frankford Fire Department	Main St.	Frankford
Frankford Community Center	Main St.	Frankford

Health Care Facilities—none located within city limits

Long Term Care and / or Nursing Homes / Senior Housing

Name	Location	Capacity
Frankford Senior Housing	King St., Frankford	18 units

Licensed Child Care Facilities—none within the city limits

Students in Frankford are in the Bowling Green School District R-I. Frankford has its own elementary school in the city limits. The middle and high school students go to Bowling Green to finish their education.

Schools

Name	Location	Students	Staff
Bowling Green R-I			
Frankford Elementary	500 School St., Frankford	81	14
Bowling Green Middle	700 W. Adams, Bowling Green	369	29
Bowling Green High	700 W. Adams, Bowling Green	485	39

Trailer Courts—none within the city limits

Hazardous Materials

The local Pike County LEPC handles any emergencies involving hazardous materials. It is important to know the location of hazardous material because of the cascading effect from a natural hazard. Addresses of the hazardous material locations in the county can be found in the Pike County Emergency Operations Plan—Hazardous Materials Response--LEPC manual. The Hazard Mitigation Committee recommends that a comprehensive map of these locations be made available to all emergency personnel in the event of a natural hazard.

Capabilities

Public and Critical Facilities

Name	Location	City
U.S. Facilities		
U.S. Post Office	Main St.	Frankford
Missouri Facilities		
MODOT Maintenance	Highway 61 S.	Frankford
City Of Frankford Facilities		
Frankford City Hall	Main St.	Frankford
Frankford Fire Department	Main St.	Frankford
Frankford Community Center	Main St.	Frankford

Law Enforcement and Fire Departments

Name	Location	Staff
Frankford Volunteer Fire Dept.	Main Street, Frankford	7 firefighters

Health Care Facilities—none located within city limits

Emergency Operations Centers

Name	Location
Frankford Volunteer Fire Dept.	Main Street, Frankford

Shelters

Name	Location
Wagon Wheel Opry House	Low Street, Frankford
Frankford Elementary School	School Street, Frankford
Christian Church	Main Cross, Frankford
Frankford Community Center	Main Street, Frankford

Emergency services

911Center

The 911 Center at the Pike County Sheriff's Office takes all emergency calls, then dispatches ambulance, fire and law enforcement departments that serve Frankford.

Pike County Health Department takes steps to prevent contamination and other health concerns in emergencies and disasters.

In addition Frankford maintains Agreements of Mutual Assistance with all the surrounding communities.

In-Place Plans

Upon adoption of the Pike County Natural Hazards Mitigation Plan, the plan will serve as a baseline of information on the natural hazards that impact Pike County and the city of Frankford. These mitigation goals and objectives will help local governments and other organizations in the Pike County plan for natural hazard mitigation in their own planning documents. The meetings of the Hazard Mitigation Committee will provide an opportunity for committee member to report back on the progress made on the integration of mitigation planning into the county and city planning documents and procedures.

Below is a listing of some of the current planning documents that will be used:

Hazardous Material Response Plan LEPC

Pike County

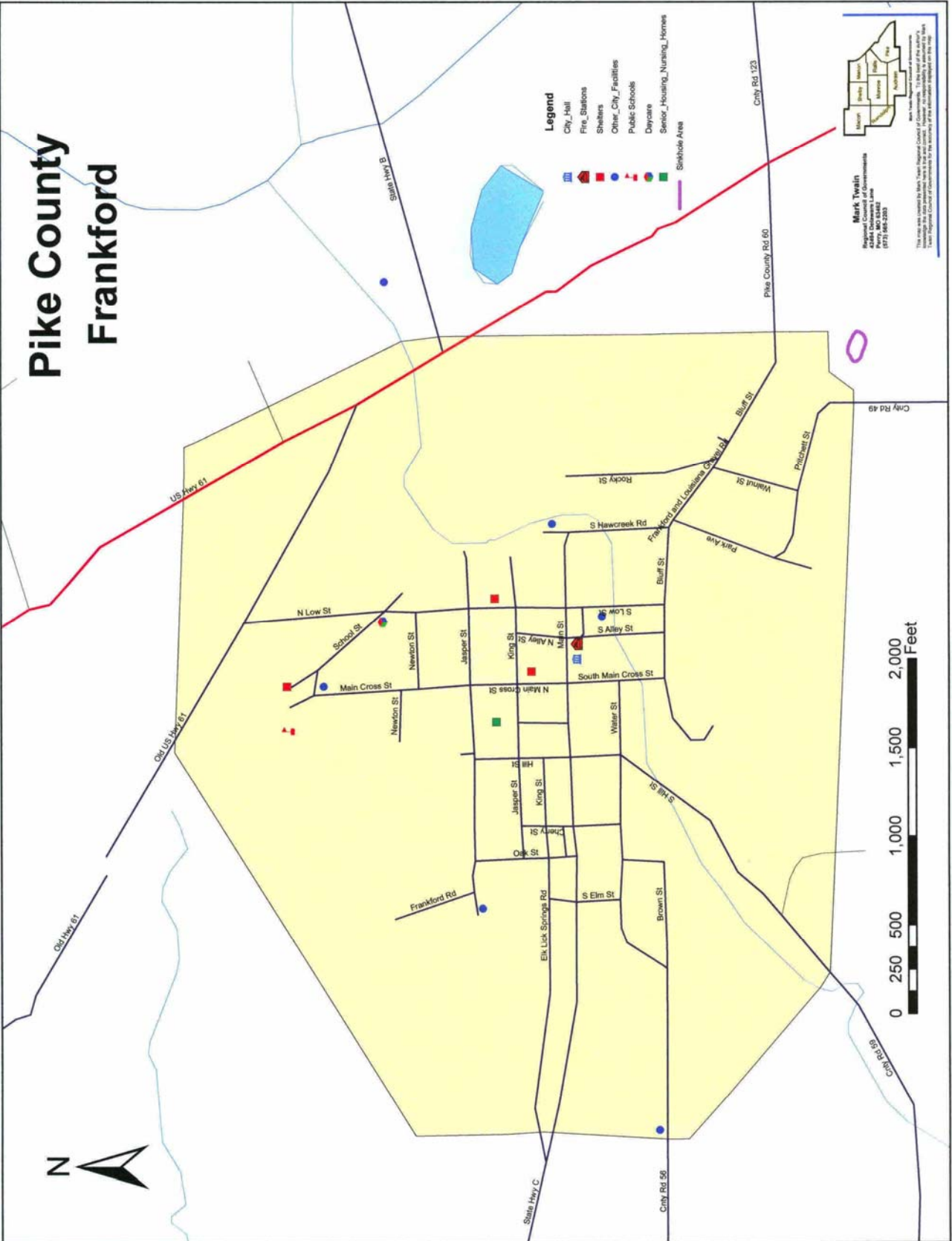
Emergency Operations Plans (EOP)

Pike County EOP

Mitigation Programs

Mitigation entails taking actions to reduce or eliminate injury, loss of life, and property damage from natural hazards. Because of Pike County's location on the Mississippi River, the majority of its mitigation efforts focus on floodplain management regulations and participation in the National Flood Insurance Program. The first Pike County Natural Hazards mitigation plan was implemented in 2004. Through public involvement and planning, the county has adopted this policy. Though the focus remains on rescue and response, a number of mitigation efforts have been implemented.

- The County participated in a federally funded property acquisition program following the 1993 flood. Those residents who previously resided in the floodplain were offered financial incentives to move out of the floodplain through a buy-out process of their property.
- Pike County is currently cooperating with the U.S. Corps of Engineers regarding levee systems along the Mississippi River to determine what actions are needed to recertify the levees and keep those areas affected in the National Flood Insurance Program (NFIP).
- Pike County's Emergency Plan and LEPC contain mitigation measures.
- Pike County receives NWS warnings, and the sheriff's office is staffed on a 24-hour basis by dispatch personnel. Additionally, the county has implemented the use of a text messaging warning system through cell phones. For those outside of incorporated areas, this measure has increased both awareness and the effectiveness of the county's warning system. However, large-scale warning equipment (sirens, etc.) is still limited to the county's municipalities and the means used to alert each respective community varies. The use of local media remains prevalent as an effective warning system.
- Pike County works collaboratively with all municipalities in identifying key sites in each incorporated area as well as sharing information regarding any/all natural threats with those entities that are interested in hazard response and mitigation.
- The County works conjunctively with local media (newspapers, radio, cable providers, and Internet service providers) to both provide information to the public and highlight mock disasters in an effort to raise public awareness about natural hazards and the planned responses. Various trainings, including weather spotting courses, have been offered to help mitigate the effects of severe weather upon the county's citizenry.
- All Pike County schools have written and compiled an all-hazards plan which includes mitigation measures for natural disasters.
- The Emergency Management Director keeps a working reference library of all materials regarding disaster response, natural hazard mitigation, and rescue/evacuation plans. The reference material is freely shared with the public as well as interested municipal officials.



Mitigation

Definition of Mitigation

Mitigation is defined as "...sustained (long-termed) action that reduces or eliminates long-term risk to people and property from natural hazards and their effects." It describes the ongoing effort at the Federal, State, local and individual levels to lessen the impact of disasters upon our families, homes, communities and economy. (HMP Handbook p.15)

Multi-Hazard Mission, Goals, Objectives, Action Items and Strategies

This section describes the framework that focuses the plan on developing successful mitigation strategies. The framework is made up of four parts: the **Mission, Goals, Objectives and Action Items and Strategies.**

Mission

The mission of the Frankford Natural Hazards Mitigation Plan is to promote sound public policy designed to protect citizens, critical facilities, infrastructure, private property, and the environment from natural hazards.

Goals

The plan goals describe the overall direction that Frankford agencies, organizations, and citizens can take to minimize the impacts of natural hazards. The goals are stepping-stones between the broad direction of the mission statement and the specific recommendations that are outlined in the action items.

Objectives

The plan objectives are significant results that contribute to the achievement of the plan goals. The objectives will be fulfilled by a combination action items and strategies that will be completed within a specific time frame.

Action Items and Strategies

The action items are a listing of activities in which county agencies and citizens can be engaged to reduce risk. Each action item includes an estimate of the timeline and strategies for implementation. When developing mitigation strategy, the planning committee followed several guidelines for selection of action items. They looked for action items that were **s**ocially acceptable, **t**echnically feasible, **a**dministratively executable by local communities, **p**olitically acceptable, **l**egally implemented by county, **e**conomically feasible and **e**nvironmentally sound (STAPLEE). The planning committee eliminated no action items after the STAPLEE guidelines were followed. A summary of the STAPLEE guidelines for each action item can be found at the end of this section.

Mission Statement

The mission of the Frankford-Pike County Natural Hazards Mitigation Plan is to promote sound public policy designed to protect citizens, critical facilities, infrastructure, private property, and the environment from natural hazards. This can be achieved by increasing public awareness, documenting the resources for risk reduction and loss-prevention, and identifying activities to guide the county towards building a safer, more sustainable community. This plan will work in conjunction with plans in place listed at the end of the community profiles.

Mitigation Goals

The three goals of natural hazard mitigation for Frankford are:

- A. Protect the lives and livelihoods of all the citizens
- B. Decrease the impact of natural hazards
- C. Ensure continued operation of government and emergency functions in a disaster.

Mitigation Plan Objectives

The Plan objectives help to guide direction of future activities aimed at reducing risk and preventing loss from natural hazards. The objectives listed here serve as checkpoints as agencies and organizations begin implementing mitigation action items.

1. Protect Life and Property

- Implement activities that assist in protecting lives by making homes, businesses, infrastructure, critical facilities, and other property more resistant to natural hazards.
- Reduce losses and repetitive damages for chronic hazard events while promoting insurance coverage for catastrophic hazards.
- Improve hazard assessment information to make recommendations for discouraging new development and encouraging preventative measures for existing development in areas vulnerable to natural hazards.

2. Public Awareness

- Develop and implement education and outreach programs to increase public awareness of the risks associated with natural hazards.
- Provide information on tools, partnership opportunities, and funding resources to assist in implementing mitigation activities.

3. Natural Systems

- Balance watershed planning, natural resource management, and land use planning with natural hazard mitigation to protect life, property, and the environment.
- Preserve, rehabilitate, and enhance natural systems to serve natural hazard mitigation functions.

4. Partnerships and Implementation

- Strengthen communication and coordinate participation among and within public agencies, citizens, non-profit organizations, business, and industry to gain a vested interest in implementation.
- Encourage leadership within public and private sector organizations to prioritize and implement local, county, and regional hazard mitigation activities.

5. Emergency Services

- Establish policy to ensure mitigation projects for critical facilities, services, and infrastructure.
- Strengthen emergency operations by increasing collaboration and coordination among public agencies, non-profit organizations, business, and industry.
- Coordinate and integrate natural hazard mitigation activities, where appropriate, with emergency operations plans and procedures.

Mitigation Action Items and Strategies

Action Items and Strategies were developed for each of the seven natural hazards that may face the citizens of Frankford. Timeframe for completion, strategies to complete each action item and the coordinating organizations were determined for each action.

The action items addressed by the Frankford Hazard Mitigation Committee included:

- **Prevention.** Prevention actions are intended to keep a hazard risk problem from getting worse. Using prevention actions, future development can be guided away from hazards, while maintaining other community goals.
- **Property Protection.** Property protection actions are used to modify buildings subject to hazard risk, rather than to prevent the hazard from occurring. These actions directly protect people and property at risk.
- **Natural Resource Protection.** Natural resource protection actions are intended to reduce the intensity of hazard effects as well as to improve the quality of the environment and wildlife habitats. Conservation agencies usually implement these activities.
- **Emergency Services.** Emergency services actions protect people before and after a hazards event. Most counties have emergency management offices to coordinate warning, response, and recovery during a disaster.

- **Structural.** Structural actions involve construction of man-made structures to control hazards. Examples are levees, floodwalls, and storm sewers.
- **Public Information.** Public information activities inform and remind people about hazardous areas and the measures necessary to avoid potential damage and injury.

Organization of Mitigation Action Items

The mitigation plan identifies action items developed through data collection and research. Action items were determined that pertained to all the natural hazards (AH) that face Frankford, and then determined specific action items for each of the seven natural hazards. To help ensure activity implementation, each action item includes information on the timeline and coordinating organizations. Upon implementation, the coordinating organizations may look to partner organizations for resources and technical assistance.

- **Coordinating Organization.** The coordinating organization is the organization that is willing and able to organize resources, find appropriate funding, or oversee activity implementation, monitoring, and evaluation. Coordinating organizations may include local, county, or regional agencies that are capable of or responsible for implementing activities and programs.
- **Timeline.** Action items include both short and long-term activities. Each action item includes an estimate of the timeline for implementation.
- **Ideas for Implementation.** Each action item includes ideas for implementation and potential resources, which may include grant programs or human resources.
- **Plan Objectives Addressed.** The plan objectives addressed by each action item are included as a way to monitor and evaluate how well the mitigation plan is achieving its goals once implementation begins.
- **Priority.** The Mitigation Action Items and Strategies are listed in this section in order of priority for each hazard and summarized in a Five Year Matrix at the end of this section.

Economic Analysis of Mitigation Projects--Cost Benefit Review

Cost-Benefit Review – takes into account the monetary and non-monetary costs and benefits associated with each action. Conducting a benefit/cost review for a mitigation activity can assist communities in determining whether a project is worth undertaking now, in order to avoid disaster-related damages later. Determining the economic feasibility of mitigating natural hazards can provide decision makers with an understanding of the potential benefits and costs of an activity, as well as a basis upon which to compare alternative projects.

Utilizing the previous Natural Hazards Mitigation Plan, the Frankford Hazard Mitigation Committee has a comprehensive list of possible hazards and ways to mitigate their impact. The benefit/cost is determined by considering the number of citizens served by the action, the long-term effects of said action, and a number of other factors.

The Cost-Benefit Review was a very important step in the prioritization of mitigation actions found in this plan. Each jurisdiction looked at each mitigation action they discussed and answered a few questions:

- How many people in various demographics could be affected by the Hazard that the action addresses?
- What is the extent or the degree that a natural hazard event could affect a particular area?
- How much property damage might occur and what will be the resulting monetary cost?
- How many properties or physical assets might have loss of use?
- How many people might lose their life?
- How many people might be injured?
- How can each action item be implemented?
- What are the possible sources of funding available for the implementation?

The information needed to answer these questions effectively can be found throughout the plan. This information assisted each jurisdiction in answering these questions. Once they used this procedure, each jurisdiction was able to prioritize their mitigation actions. Once jurisdictions had completed the Cost-Benefit Review, they then had to take into account other variables such as the ability to implement actions and funding considerations to complete the prioritization process.

Public Participation

Meetings with the Hazard Mitigation Committees served as the method to obtain input and identify priorities in developing goals for reducing risk and preventing loss from natural hazards in Frankford. Articles in the local papers informed the public that hazard mitigation planning was occurring in their communities and they were invited to let their concerns be known.

In accordance with Missouri's "sunshine law" (RSMo 610.010, 610.020, 610.023, and 610.024), the public was notified each time the Hazard Mitigation Committees met and the plan, or sections of the plan, was presented for review. Input from the general public was solicited through media outlets and various reminders at public gatherings.

The Hazard Mitigation Committees met to determine action items that would address each of the plan objectives, determine which organizations or groups within the county would be responsible for the action, an estimated timeline for the action, and to prioritize the action items.

5 Year Review, Update and Revision Process 2009

All Hazard Mitigation Plans are required to be revised every five years after initial approval by FEMA. The first Pike County Multi-Jurisdiction Natural Hazard Mitigation Plan was finalized in December 2004. The city of Frankford was contacted to form a Hazard Mitigation Committee.

At the initial meeting, the committee reviewed and discussed the applicability of each portion in the original Hazard Mitigation Plan and opted to update all sections of the plan, though in varying degrees. Committee members were asked to provide updated information on critical response capabilities and assets within their communities for the next meeting.

At the next committee meeting the committee reviewed the Introduction, Hazard Risk and Assessment, and Profile sections. Utilizing the committee's information and suggestions, these portions of the plan were updated. The hazards of Sinkholes, Landslides, and Levee Failure were added to the hazards discussion in this revision and this section was updated with historical data as well as the latest storm and hazard records. The Profile section was updated the most recent U.S. Census data. The committee also reviewed and updated the information on all capabilities and vulnerabilities.

The next meetings were held to discuss the mitigation action items developed in the 2004 plan and if they were completed, needed revision or were to be deleted, and any new action items that the committee felt were needed. The result of those meetings is summarized in the 5 Year Mitigation Action Matrix found at the end of the Mitigation section for each jurisdiction. The 2004 Action Items are presented followed by the revision and comments highlighted in yellow.

The committee's final meeting was focused on plan maintenance and implementation and review of the entire plan. Annual assessments will be conducted by the County's Emergency Management Director and will be open to the public. Press releases in local newspapers will encourage public participation in the assessment process. Plan copies will be publicly accessible in each local jurisdiction for review and comment by county citizens.

The 2004 Action Items and the 2009 revisions are also analyzed using **STAPLEE** (action items that were socially acceptable, technically feasible, admistratively executable by local communities, politically acceptable, legally implemented by county, economically feasible and environmentally sound (**STAPLEE**)). A summary of the **STAPLEE** guidelines for each action item can be found at the end of this section just before the 5 Year Mitigation Action Matrix. The 2004 action items are listed, and the **2009 revisions and new action items are in bold print.**

City of Frankford---Hazard Mitigation Committee 2009

Helen Pratt	Mayor
Bill Halliburton	Citizen
Darrell VanHooser	Fire Dept.
Tammy Epperson	Alderman
Millie Reading	Citizen
Marilyn Frazer	City Clerk

Staplee Evaluation of Action Items.

		S	T	A	P	L	E	E
	Action Item	Social	Technical	Administrative	Political	Legal	Economic	Environmental Considerations
****	The 2004 action items are listed, and the 2009 revisions and new action items are in bold print.							
AH #1	Evaluate and upgrade as needed the current emergency response communication infrastructure. -- Working on funds to obtain a repeater and base station for the fire department because currently Frankford is in a dead zone for radio communications.	✓	✓	✓	✓	✓	✓	NA
AH #2	Maintain and replace missing street signs. -- Ongoing	✓	✓	✓	✓	✓	✓	NA
AH #3	Obtain sufficient back-up generators for designated shelters and communications for emergency personnel. -- “after the event” shelters. City of Frankford and the Fire Dept have generators	✓	✓	✓	✓	✓	✓	NA
AH #4	Education, brochures, provided to citizens. -- Place brochures and information on bulleting Board at City Hall	✓	✓	✓	✓	✓	✓	NA
AH #5	Promote NOAA radio Use. -- Ongoing. City Hall has NOAA radio. Place information on bulleting Board at City Hall.	✓	✓	✓	✓	✓	✓	NA
AH #6	Participate in regularly scheduled Table-top exercises and mock emergency exercises. -- Ongoing. Participate when events are scheduled in the area.	✓	✓	✓	✓	✓	✓	NA
AH #7	Maintain and update annually list of “after the event” shelters, sources for generators and propane heaters.	✓	✓	✓	✓	✓	✓	NA
AH #8	EOC is established at Fire Station -- see AH # 1 for communications upgrades needed for EOC	✓	✓	✓	✓	✓	✓	NA
T #1	Participate in regularly scheduled training for weather spotters. -- Ongoing and sufficient number of weather spotters for the city.	✓	✓	✓	✓	✓	✓	NA
T #2	Promote use of NOAA radios in senior housing, private homes, and large gatherings. -- Place brochures and information on bulleting Board at City Hall	✓	✓	✓	✓	✓	✓	NA
T #3	Update and maintain list of buildings that are designated as shelters, distribute list. -- Maintain and update annually list of “after the event” shelters, sources for generators and propane heaters.	✓	✓	✓	✓	✓	✓	NA
T #4	Educational brochures on what to do during a tornado or severe storm. -- Place brochures and information on bulleting Board at City Hall	✓	✓	✓	✓	✓	✓	NA
T #5	Investigate opportunities to obtain a modern warning siren. -- Currently working with Pike County Economic Development to obtain a grant for warning siren.	✓	✓	✓	✓	✓	✓	NA
T #6	Attempt to repair and evaluate current warning siren. -- DELETE---old warning siren is not repairable---see above	✓	✓	✓	✓	✓	✓	NA
T #7	Current plan to warn citizens until warning siren can be obtained is to go around town with loud speaker on a fire truck.	✓	✓	✓	✓	✓	✓	NA

**** WW -- Winter Weather / Ice Storms T -- Tornados/ Storms F -- Flooding, EQ -- Earthquake
 WF -- Wildfire DF -- Dam Failure EHD -- Extreme Heat/ Drought LS--Landslide
 SH -- Sinkhole LF -- Levee Failure AH -- All Hazards

Staplee Evaluation of Action Items.

		S	T	A	P	L	E	E
	Action Item	Social	Technical	Administrative	Political	Legal	Economic	Environmental Considerations
****	The 2004 action items are listed, and the 2009 revisions and new action items are in bold print.							
F # 1	Set up committee to investigate joining the NFIP. -- A new committee will be established to look into joining the NFIP	✓	✓	✓	✓	✓	✓	✓
F # 2	Conduct engineering study on the storm water drainage problem areas. -- In 2008 FEMA conducted a survey on the storm water damage in the city. Currently working with funds from FEMA to correct the identified problem areas.	✓	✓	✓	✓	✓	✓	✓
F # 3	Regular cleaning of culverts to improve storm water drainage.	✓	✓	✓	✓	✓	✓	✓
WW #1	Coordinate with utility company to trim or remove trees from power line easements. --	✓	✓	✓	✓	✓	✓	NA
WW# 2	Maintain snow removal plan. -- Ongoing	✓	✓	✓	✓	✓	✓	NA
WW # 3	Shelters are available for cold weather. Maintain and update annually list of “after the event” shelters, sources for generators and propane heaters.	✓	✓	✓	✓	✓	✓	NA
EQ #1	Informational brochures available to public, newspaper articles. -- Place brochures & information on bulleting Board at City Hall	✓	✓	✓	✓	✓	✓	NA
EQ #2	Participate in regularly scheduled training exercises. -- Ongoing. Participate when events are scheduled in the area.	✓	✓	✓	✓	✓	✓	NA
EHD #1	Establish cooling centers. -- Establish a shelter as a cooling center as needed. Maintain and update annually list of “after the event” shelters	✓	✓	✓	✓	✓	✓	NA
EHD #2	Encourage Drought resistant yard watering practices. -- Ongoing	✓	✓	✓	✓	✓	✓	✓
WF # 1	Burning bans to be issued by the Fire Department as needed. - Burning bans issued by County Commission	✓	✓	✓	✓	✓	✓	✓

**** **WW -- Winter Weather / Ice Storms T -- Tornados/ Storms F -- Flooding, EQ -- Earthquake**
WF -- Wildfire DF -- Dam Failure EHD -- Extreme Heat/ Drought LS--Landslide
SH -- Sinkhole LF -- Levee Failure AH -- All Hazards

Five Year Matrix Mitigation Action Summary Sheets

Natural Hazards Considered for Mitigation

Tornados and Thunderstorms
Flooding
Winter Weather/ Ice Storms
Extreme Heat / Drought
Earthquake
Wildfire
Dam Failure
Sinkholes
Landslides
Levee Failure

Action Items that pertain to All Hazards.

The Mitigation Action Items are listed in order of priority for each hazard.

Action Items updated in 2009 are in yellow shaded rows.

Natural Hazard	Action Item and Strategy	Coordinating Organization	Timeline	N—New R—Revision O—Ongoing	Funding	Goals			Objectives					
						Protect lives and livelihoods	Decrease Impact of Hazards	Cont'd operation of government & emergency functions	Protect life and Property	Public Awareness	Natural Systems	Partnerships	Emergency Service	Structural **
All hazards AH #1	Evaluate and upgrade as needed the current emergency response communication infrastructure.	HMC	1 year			✓	✓	✓	✓			✓	✓	
2009 Update	Working on funds to obtain a repeater and base station for the fire department because currently Frankford is in a dead zone for radio communications.	HMC. Fire Dept	1-3 years	R	LF F-S-G	✓	✓	✓	✓			✓	✓	N
All hazards AH #2	Maintain and replace missing street signs.	Pike County 911 HMC	Ongoing					✓		✓		✓	✓	
2009 Update	Ongoing	Pike County 911 HMC	Ongoing	O	LF	✓	✓		✓	✓		✓		
All hazards AH #3	Obtain sufficient back-up generators for designated shelters and communications for emergency personnel.	HMC, Emergency Operations personnel	1-2 years			✓	✓					✓	✓	
2009 Update	“after the event” shelters. City of Frankford and the Fire Dept have generators	HMC. Fire Dept	Ongoing	O	LF	✓	✓		✓			✓	✓	
All hazards AH #4	Education, brochures, provided to citizens.	HMC, media	1-2 years			✓	✓			✓		✓		
2009 Update	Place brochures and information on bulleting Board at City Hall	HMC, City Hall	3-6 months	R	LF	✓	✓		✓	✓				

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All hazards AH #5	Promote NOAA radio Use.	HMC, media	1 year			✓	✓			✓		✓		
2009 Update	Ongoing. City Hall has NOAA radio. Place information on bulleting Board at City Hall.	HMC, City Hall	3-6 Months	R	LF	✓	✓		✓	✓				
All hazards AH #6	Participate in regularly scheduled Table-top exercises and mock emergency exercises.	Emergency Operations personnel, HMC,	6 months			✓	✓	✓	✓			✓	✓	
2009 Update	Ongoing. Participate when events are scheduled in the area.	HMC, Fire Dept.	Ongoing	O	LF	✓	✓	✓	✓			✓	✓	
2009 Update	Maintain and update annually list of “after the event” shelters, sources for generators and propane heaters.	Fire Dept	Ongoing	O	LF	✓	✓		✓			✓	✓	
2009 Update	EOC is established at Fire Station -- see AH # 1 for communications upgrades needed for EOC	Fire Dept	Ongoing	R	LF F-S-G	✓	✓	✓	✓			✓	✓	E

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Tornados/ Storms T #1	Participate in regularly scheduled training for weather spotters.	HMC, Fire Department	Ongoing			✓	✓	✓	✓			✓	✓	
2009 Update	Ongoing and sufficient number of weather spotters for the city.	HMC. Fire Dept	Ongoing	O	LF	✓	✓		✓	✓			✓	
Tornados/ Storms T #2	Promote use of NOAA radios in senior housing, private homes, and large gatherings.	HMC, media	1 – 2 years					✓	✓			✓	✓	
2009 Update	Place brochures and information on bulleting Board at City Hall	HMC, City Hall	3-6 months	R	LF	✓	✓		✓	✓				
Tornados/ Storms T #3	Update and maintain list of buildings that are designated as shelters, distribute list.	HMC, Emergency Operations personnel, media	Ongoing			✓	✓		✓	✓		✓	✓	
2009 Update	Maintain and update annually list of “after the event” shelters, sources for generators and propane heaters.	HMC. Fire Dept	Ongoing	O	LF	✓	✓		✓	✓		✓	✓	E
Tornados/ Storms T #4	Educational brochures on what to do during a tornado or severe storm.	HMC, media	1 year			✓	✓		✓	✓				
2009 Update	Place brochures and information on bulleting Board at City Hall	HMC, City Hall	3-6 months	R	LF	✓	✓		✓	✓				

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Tornados/ Storms T #5	Investigate opportunities to obtain a modern warning siren.	HMC	1-2 years			✓	✓		✓				✓	
2009 Update	Currently working with Pike County Economic Development to obtain a grant for warning siren.	HMC. Fire Dept	1 year	R	LF F-S-G	✓	✓		✓	✓		✓	✓	N
Tornados/ Storms T #6	Attempt to repair and evaluate current warning siren.	HMC	6 months			✓	✓	✓	✓	✓		✓	✓	
2009 Update	DELETE---old warning siren is not repairable---see above		X											
2009 Update Tornados/ Storms T #7	Current plan to warn citizens until warning siren can be obtained is to go around town with loud speaker on a fire truck.	HMC. Fire Dept	Ongoing	O	LF	✓	✓		✓	✓		✓	✓	
Flooding F # 1	Set up committee to investigate joining the NFIP.	HMC	1 – 2 years			✓	✓	✓	✓	✓		✓	✓	
2009 Update	A new committee will be established to look into joining the NFIP	HMC, City Hall	1 – 2 years	R	LF	✓	✓		✓	✓		✓		

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Flooding F # 2	Conduct engineering study on the storm water drainage problem areas.	HMC	3-5 years					✓	✓		✓	✓	✓	
2009 Update	In 2008 FEMA conducted a survey on the storm water damage in the city. Currently working with funds from FEMA to correct the identified problem areas.	HMC, Street Dept	Ongoing	N O	LF F-S-G	✓	✓		✓		✓	✓		N
Flooding F # 3	Regular cleaning of culverts to improve storm water drainage.	Street Dept.	Ongoing	O	LF	✓	✓		✓	✓	✓			
Winter Weather WW #1	Coordinate with utility company to trim or remove trees from power line easements.	Utility Company, HMC	Ongoing			✓	✓		✓	✓		✓	✓	
2009 Update	Ongoing	AmerenUE	Ongoing	O	LF	✓	✓		✓			✓		
Winter Weather WW # 2	Maintain snow removal plan.	Street Dept. HMC	Ongoing			✓	✓		✓				✓	
2009 Update	Ongoing	HMC, Street Dept	Ongoing	O	LF	✓	✓	✓	✓				✓	

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2009 Update Winter Weather WW # 3	Shelters are available for cold weather. Maintain and update annually list of “after the event” shelters, sources for generators and propane heaters.	HMC. Fire Dept	Ongoing	O	LF	✓	✓		✓	✓		✓	✓	
Earthquake EQ #1	Informational brochures available to public, newspaper articles.	HMC, media	1 year			✓	✓	✓	✓	✓		✓		
2009 Update	Place brochures and information on bulleting Board at City Hall	HMC, City Hall	3-6 months	R	LF	✓	✓		✓	✓				
Earthquake EQ #2	Participate in regularly scheduled training exercises.	HMC	Ongoing					✓	✓			✓	✓	
2009 Update	Ongoing. Participate when events are scheduled in the area.	HMC. Fire Dept	Ongoing	O	LF	✓	✓	✓	✓			✓	✓	
Extreme Heat/ Drought EHD #1	Establish cooling centers.	HMC, Pike Co. Health Dept. Fire Dept,	Ongoing			✓	✓		✓	✓		✓		
2009 Update	Establish a shelter as a cooling center as needed. Maintain and update annually list of “after the event” shelters	HMC. Fire Dept	6 months	R	LF	✓	✓		✓	✓		✓	✓	E

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Extreme Heat/ Drought EHD #2	Encourage Drought resistant yard watering practices.	HMC University Outreach	Ongoing			✓	✓			✓	✓	✓		
2009 Update	Ongoing	HMC University Outreach	Ongoing	O	LF	✓	✓		✓	✓	✓			
Wildfire WF # 1	Burning bans to be issued by the Fire Department as needed.	HMC, Fire Department	Ongoing			✓	✓	✓	✓	✓		✓		
2009 Update	Burning bans issued by County Commission	HMC, County Commission, Fire Department	Ongoing	O	LF	✓	✓		✓	✓	✓			
2009 Update Dam Failure DF	NA													
2009 Update Levee Failure LF	NA													

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2009 Update Sinkholes SH	NA														
2009 Update Landslide LS	NA														
2009 Update															
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