

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

**Section 10**

**Curryville**

# Pike County, Missouri

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# City Profile----Curryville

## History of Curryville

Perry A. Curry laid out Curryville, located on the plains of western Pike County, in 1866. Curryville was incorporated in 1874. One source says, “the population of Curryville as remained fairly constant over the past 100 years according to official census figures, and in fact, it is one of the few towns in Pike County whose population has increased rather than decreased in recent years. In the period from 1930 to 1980, Curryville’s population increased from 266 to 323.”

While Curryville’s population has grown over the years the once thriving business district has declined. By the 1980s only the post office and a few businesses remained. The Curryville Elementary School still a vital institution sends its graduates off to Bowling Green to continue their education.

Today, Curryville is a friendly Pike County town that welcomes new prospective residents. Its location between Bowling Green and Vandalia, where prisons have increased the demand for jobs, makes it an attractive location for future growth.

In 1957 Curryville dug two wells and laid water mains. Natural gas was piped into town in 1964 and in 1973 Curryville installed their sewer system. In 1980 new pipes were laid to obtain water from the Cannon Water District, as the two wells were no longer sufficient. In addition the installation of the water tower has reduced the insurance rates.

## Form of Government

Curryville’s city government is Mayor and Board of Aldermen. Curryville has three wards with two alderman elected from each ward.

### Curryville’s Participation in NFIP (National Flood Insurance Program)

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

Curryville has not joined the NFIP. FEMA has not mapped any Special Flood zones in the Curryville area.



## Employment

Curryville has a diverse work force as seen in Table 3. The 2000 Census records show that Curryville had an unemployment rate of 5.6% out of total work force of 125 persons. These workers had a mean travel time to work of 24.0 minutes and their median household income was \$27,500. The statistics show that over 3% of the work force is professional or management. An additional 46% is in service, sales and office employment. Construction, maintenance, production and transportation account for an additional 48%.

<b>City of Curryville</b>	<b>2000 Census</b>	
<b>Occupation</b>	<b>Number</b>	<b>Percent</b>
Management, Professional	4	3.4
Service occupations	30	25.5
Sales and office occupations	24	20.3
Farming, fishing, and forestry	3	2.5
Construction and maintenance	23	19.5
Production and transportation	34	28.8
Total civilians employed	118	xx
Unemployment rate	7	5.6
Mean Travel time to work	24.0 minutes	xx
Median Household Income	\$27,500	xx
Persons below poverty level	56	22.7
Source: 2000 U.S. Census		

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

## Education

The tables below show Curryville's education profile. At least 73 % of those over 25 years of age have at least earned their high school diploma. Over 7 % of those have gone on to obtain an Associate, Bachelor, or advanced college degree.

<b>City of Curryville</b>	<b>2000 Census</b>	
<b>Education Profile</b>	<b>Number</b>	<b>Percent</b>
Total Persons over 25 years old	171	100
Less than High School Degree	45	26.3
High School Graduate	98	57.3
Some college	16	9.4
Associate or Bachelor Degree	10	5.8
Post-graduate or Professional Degree	2	1.2
Source: 2000 U.S. Census		

<b>City of Curryville</b>	<b>2000 Census</b>	
<b>Educational Enrollment</b>	<b>Number</b>	<b>Percent</b>
Total Persons enrolled in school	41	100
Nursery, pre-school	6	14.6
Kindergarten	1	2.4
Elementary ( 1 – 8 )	24	58.5
High School ( 9 – 12 )	10	24.5
College or graduate school	0	0.0
Source: 2000 U.S. Census		

Students in Curryville are in the Bowling Green School District R-I. Curryville's elementary school has closed. The Curryville students go to Bowling Green schools.

<b>Name</b>	<b>Location</b>	<b>Students</b>	<b>Staff</b>
<b>Bowling Green R-I</b>			
Bowling Green Elementary			
Bowling Green Middle	700 W. Adams, Bowling Green	369	29
Bowling Green High	700 W. Adams, Bowling Green	485	39
<b>Curryville Christian School</b>	203 E. Maple, Curryville		

## Vulnerabilities

### Public and Critical Facilities

Name	Location	City
<b>U.S. Facilities</b>		
U.S. Post Office	Main and Central	Curryville
<b>City Of Curryville Facilities</b>		
Curryville City Hall	100 City Hall St.	Curryville
Curryville Police Department	100 City Hall St.	Curryville
Curryville Volunteer Fire Department	Central and Main	Curryville

**Health Care Facilities**—none located within city limits

### Long Term Care and / or Nursing Homes / Senior Housing

--none located within city limits

**Licensed Child Care Facilities**-- none located within city limits

### Schools

Name	Location	Students	Staff
<b>Bowling Green R-I</b>			
Curryville Christian School	203 E. Maple, Curryville		

### Trailer Courts

Name	Location	# Units
Sally Jane's	Curryville	13 Units

### 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
<b>U.S. Facilities</b>		
U.S. Post Office	Main and Central	Curryville
<b>City Of Curryville Facilities</b>		
Curryville City Hall	100 City Hall St.	Curryville
Curryville Police Department	100 City Hall St.	Curryville
Curryville Volunteer Fire Department	Central and Main	Curryville

### Law Enforcement and Fire Departments

Name	Location	Staff
Curryville Volunteer Fire Dept.	Main and Central, Curryville	8 firefighters
Curryville Police Dept.	100 City Hall St., Curryville	2 officers

**Health Care Facilities**—none located within city limits

### Emergency Operations Centers

Name	Location
Curryville Police Dept.	100 City Hall St., Curryville

### Shelters

Name	Location
Curryville Elementary School	203 E. Maple, Curryville
Community Center	E. Park St., Curryville



## **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 Curryville.

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

In addition Curryville 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 Curryville. 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**

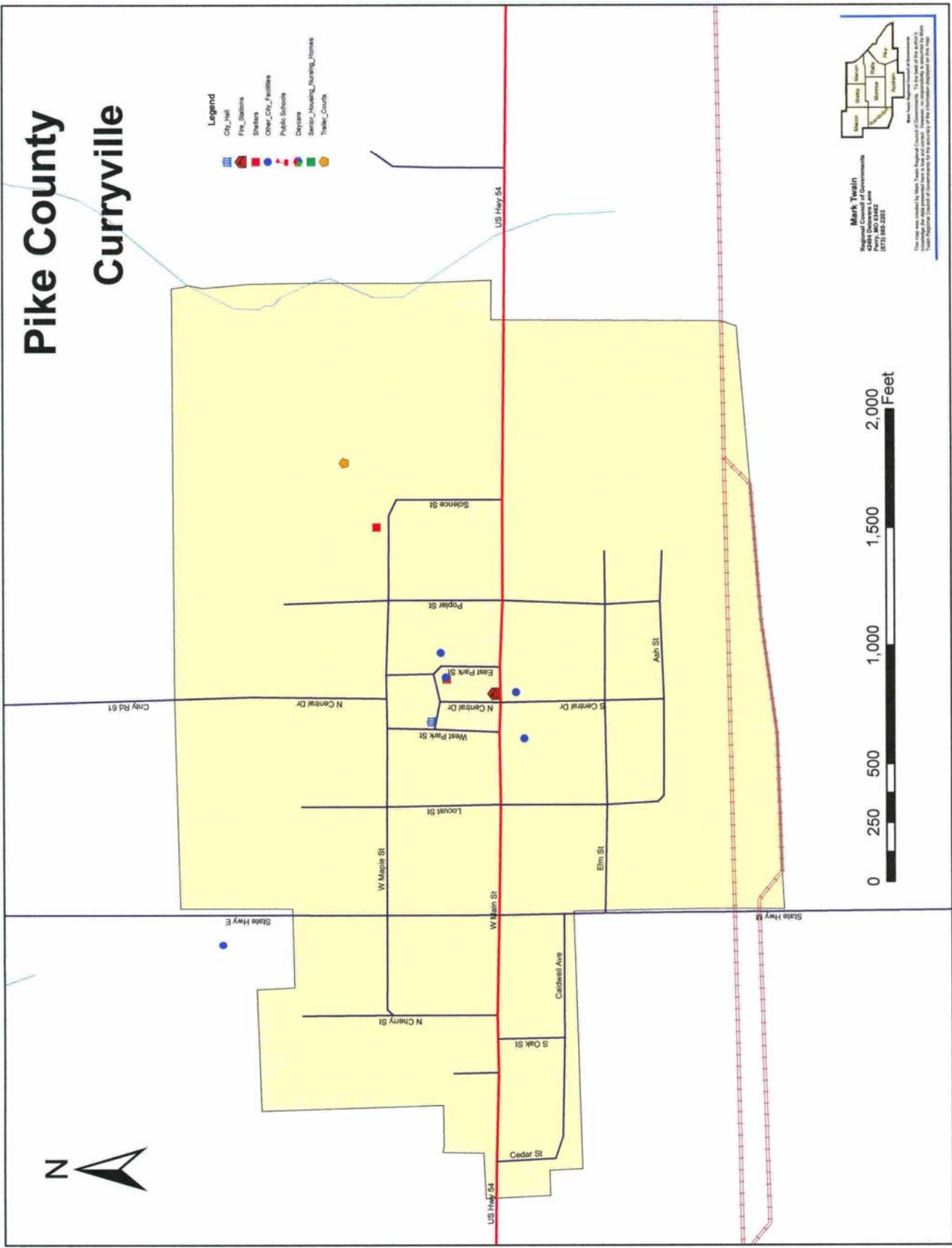
Mitigation entails taking actions to reduce or eliminate injury, loss of life, and property damage from natural hazards. Because of Pike County's location on the Mississippi River, the majority of its mitigation efforts focus on floodplain management regulations and participation in the National Flood 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.

# Pike County Curryville

- Legend**
- City\_Hall
  - Fire\_Stations
  - Shelters
  - Other\_City\_Facilities
  - Public\_Schools
  - Daycare
  - Senior\_Housing\_Nursing\_Homes
  - Theater\_Courts



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This map was prepared by Mark Twain Regional Council of Governments. To the best of the author's knowledge, the data presented here is true and correct. It is prepared as advisory information only. The author disclaims any liability for damages or losses resulting from the use of this map.



# 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 Curryville 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 Curryville 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 Curryville-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 Curryville 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 Curryville. Timeframe for completion, strategies to complete each action item and the coordinating organizations were determined for each action. The action items addressed by the Curryville 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 Curryville, 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 Curryville 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 Curryville. 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 Curryville 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 Curryville---Hazard Mitigation Committee 2009**

Roy Crane	Mayor
Bill Cnopp	Fire Dept.
Fritz Buchmeyer	Assistant Fire Chief
Terry Fuerst	Firefighter
Mike Flanagan	Citizen

## Staplee Evaluation of Action Items.

		<b>S</b>	<b>T</b>	<b>A</b>	<b>P</b>	<b>L</b>	<b>E</b>	<b>E</b>
	<b>Action Item</b>	Social	Technical	Administrative	Political	Legal	Economic	Environmental Considerations
****	The 2004 action items are listed, and the <b>2009 revisions and new action items are in bold print.</b>							
<b>AH #1</b>	Evaluate and upgrade as needed the current emergency response communication infrastructure. -- <b>Police communications will be upgraded to 50 watts— Fire Dept. will update radios to current standards within as funds become available.</b>	✓	✓	✓	✓	✓	✓	NA
<b>AH #2</b>	Maintain and replace missing street signs. -- <b>Ongoing</b>	✓	✓	✓	✓	✓	✓	NA
<b>AH #3</b>	Obtain sufficient back-up generators for <del>designated</del> “after the event” shelters and communications for emergency personnel. -- <b>Ongoing—Fire Dept. has 2 generators that are available for shelter and / or communications as needed.</b>	✓	✓	✓	✓	✓	✓	NA
<b>AH #4</b>	Education, brochures, provided to citizens. -- <b>Post Brochures on bulletin boards at Post office and stores. Include on Fire Dept. website 3-6 months</b>	✓	✓	✓	✓	✓	✓	NA
<b>AH #5</b>	Promote NOAA radio Use. -- <b>Post Brochures on bulletin boards at Post office and stores. Include on Fire Dept. website. Will purchase a NOAA radio for city hall—</b>	✓	✓	✓	✓	✓	✓	NA
<b>AH #6</b>	Participate in regularly scheduled Table-top exercises and mock emergency exercises. -- <b>Becoming active with Pike County Emergency Management and will participate in coming year. Pike County Health Dept will issue ID cards for emergency personnel.</b>	✓	✓	✓	✓	✓	✓	NA
<b>AH #7</b>	<b>Update List of buildings available to be used as shelters and method of access to buildings as needed. Update list annually</b>	✓	✓	✓	✓	✓	✓	NA
<b>AH #8</b>	<b>Write an EOP for the city of Curryville based on Pike County EOP. Update EOP annually</b>	✓	✓	✓	✓	✓	✓	NA
<b>AH #9</b>	<b>Currently the city hall is the EOC for the city. Establish a secondary EOC at the Fire Dept. as funds become available.</b>	✓	✓	✓	✓	✓	✓	NA
<b>AH #10</b>	<b>EMD has been appointed for the city. (Fire Chief)</b>	✓	✓	✓	✓	✓	✓	NA
<b>T #1</b>	Participate in regularly scheduled training for weather spotters. -- <b>Ongoing. Currently 4 firefighters and citizens are trained as weather spotters</b>	✓	✓	✓	✓	✓	✓	NA
<b>T #2</b>	Promote use of NOAA radios in senior housing, private homes, and large gatherings. -- <b>Post Brochures on bulletin boards at Post office and stores. Include on Fire Dept. website</b>	✓	✓	✓	✓	✓	✓	NA
<b>T #3</b>	Update and maintain list of buildings that are <del>designated</del> “after the event” as shelters, distribute list. -- <b>Update List of buildings available to be used as shelters and method of access to buildings as needed. Update list annually</b>	✓	✓	✓	✓	✓	✓	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.

		<b>S</b>	<b>T</b>	<b>A</b>	<b>P</b>	<b>L</b>	<b>E</b>	<b>E</b>
	<b>Action Item</b>	Social	Technical	Administrative	Political	Legal	Economic	Environmental Considerations
****	The 2004 action items are listed, and the <b>2009 revisions and new action items are in bold print.</b>							
<b>T #4</b>	Educational brochures on what to do during a tornado or severe storm. -- <b>Post Brochures on bulletin boards at Post office and stores. Include on Fire Dept. website</b>	✓	✓	✓	✓	✓	✓	NA
<b>T #5</b>	Investigate opportunities to obtain warning siren. -- <b>Currently have applied for a grant to obtain a warning siren</b>	✓	✓	✓	✓	✓	✓	NA
<b>T #6</b>	Establish a plan to warn citizens until a warning siren can be obtained. -- <b>Ongoing. Fire truck with PA system to warn citizens</b>	✓	✓	✓	✓	✓	✓	NA
<b>WW #1</b>	Coordinate with utility company to trim or remove trees from power line easements. -- <b>Ongoing</b>	✓	✓	✓	✓	✓	✓	NA
<b>WW# 2</b>	Develop a snow removal plan. -- <b>Ongoing General Maintenance employee plows as needed.</b>	✓	✓	✓	✓	✓	✓	NA
<b>WW#3</b>	<b>AmerenUE will place new 3-phase lines through-out the city within 6 months- 1 year</b>	✓	✓	✓	✓	✓	✓	NA
<b>EQ #1</b>	Informational brochures available to public, newspaper articles. -- <b>Post Brochures on bulletin boards at Post office and stores. Include on Fire Dept. website</b>	✓	✓	✓	✓	✓	✓	NA
<b>EQ #2</b>	Participate in regularly scheduled training exercises. -- <b>Will participate with in next year.</b>	✓	✓	✓	✓	✓	✓	NA
<b>EQ #3</b>	<b>Building codes are in place. Appoint a building inspector - 6 months</b>	✓	✓	✓	✓	✓	✓	NA
<b>EQ #4</b>	<b>Encourage the private Christian school and daycare to participate in earthquake drills.</b>	✓	✓	✓	✓	✓	✓	NA
<b>EHD #1</b>	Establish cooling centers. -- <b>Establish a cooling center at a shelter as needed.</b>	✓	✓	✓	✓	✓	✓	NA
<b>EHD #2</b>	Encourage Drought resistant yard watering practices. -- <b>Ongoing</b>	✓	✓	✓	✓	✓	✓	✓
<b>WF # 1</b>	Burning bans to be issued by the <b>City and / or Fire Department as needed. -- Ongoing, City can also issue burning ban.</b>	✓	✓	✓	✓	✓	✓	✓
<b>F #1</b>	<b>Establish a committee to study the storm water drainage in the city and apply for grants to correct problems as funds becomes available.</b>	✓	✓	✓	✓	✓	✓	✓

\*\*\*\* WW -- Winter Weather / Ice Storms    T -- Tornadoes/ 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.

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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 <b>AH #1</b>	Evaluate and upgrade as needed the current emergency response communication infrastructure.	HMC ,	1 year			✓	✓	✓	✓			✓	✓	
<b>2009 Update</b>	<b>Police communications will be upgraded to 50 watts— Fire Dept. will update radios to current standards within as funds become available.</b>	<b>HMC, Emergency Personnel</b>	<b>1 month. 2 years</b>	<b>R</b>	<b>LF F-S-G</b>	✓	✓	✓	✓			✓	✓	<b>E</b>
All hazards <b>AH #2</b>	Maintain and replace missing street signs.	Pike County 911 HMC	Ongoing					✓		✓		✓	✓	
<b>2009 Update</b>	<b>Ongoing</b>	<b>Pike County 911 HMC</b>	<b>Ongoing</b>	<b>O</b>	<b>LF</b>	✓	✓		✓				✓	
All hazards <b>AH #3</b>	Obtain sufficient back-up generators for designated “after the event” shelters and communications for emergency personnel.	HMC, Emergency Operations personnel	1-2 years			✓	✓					✓	✓	
<b>2009 Update</b>	<b>Ongoing—Fire Dept. has 2 generators that are available for shelter and / or communications as needed.</b>	<b>HMC, Fire Dept.</b>	<b>Ongoing</b>	<b>O</b>	<b>LF</b>	✓	✓	✓	✓				✓	<b>E</b>
All hazards <b>AH #4</b>	Education, brochures, provided to citizens.	HMC, media	1-2 years			✓	✓			✓		✓		
<b>2009 Update</b>	<b>Post Brochures on bulletin boards at Post office and stores. Include on Fire Dept. website 3-6 months</b>	<b>HMC, Fire Dept.</b>	<b>Ongoing</b>	<b>O</b>	<b>LF</b>	✓	✓		✓	✓		✓		

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						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 <b>AH #5</b>	Promote NOAA radio Use.	HMC, media	1 year			✓	✓			✓		✓		
<b>2009 Update</b>	<b>Post Brochures on bulletin boards at Post office and stores. Include on Fire Dept. website Will purchase a NOAA radio for city hall—</b>	<b>HMC, Fire Dept.</b>	<b>3-6 months</b> <b>3 months</b>	<b>R</b>	<b>LF</b>	✓	✓		✓	✓		✓		
All hazards <b>AH #6</b>	Participate in regularly scheduled Table-top exercises and mock emergency exercises.	., HMC	6 months			✓	✓	✓	✓			✓	✓	
<b>2009 Update</b>	<b>Becoming active with Pike County Emergency Management and will participate in coming year. Pike County Health Dept will issue ID cards for emergency personnel.</b>	<b>Fire Dept, Police Dept., HMC</b>	<b>1 year</b>	<b>R</b>	<b>LF</b>	✓	✓	✓	✓			✓	✓	
<b>2009 Update</b> All hazards <b>AH #7</b>	<b>Update List of buildings available to be used as shelters and method of access to buildings as needed. Update list annually</b>	<b>Fire Dept, Police Dept., HMC</b>	<b>3 months</b>	<b>N</b>	<b>LF</b>	✓	✓		✓	✓			✓	
<b>2009 Update</b> All hazards <b>AH #8</b>	<b>Write an EOP for the city of Curryville based on Pike County EOP Update EOP annually</b>	<b>Fire Dept, Police Dept., HMC</b>	<b>6 months</b>	<b>N</b>	<b>LF</b>	✓	✓	✓	✓			✓	✓	

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						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 **		
<b>2009 Update</b> <b>All hazards</b> <b>AH #9</b>	<b>Currently the city hall is the EOC for the city. Establish a secondary EOC at the Fire Dept. as funds become available.</b>	<b>Fire Dept, Police Dept., HMC</b>	<b>1-5 years</b>	<b>N</b>	<b>LF F-S-G</b>	✓	✓	✓	✓			✓	✓			<b>N</b>
<b>2009 Update</b> <b>All hazards</b> <b>AH #10</b>	<b>EMD has been appointed for the city. (Fire Chief)</b>	<b>Fire Dept, Police Dept., HMC</b>	<b>Ongoing</b>	<b>N</b>	<b>LF</b>	✓	✓	✓	✓					✓		
Tornados/ Storms <b>T #1</b>	Participate in regularly scheduled training for weather spotters.	HMC, Fire Department	Ongoing			✓	✓	✓	✓				✓	✓		
<b>2009 Update</b>	<b>Ongoing. Currently 4 firefighters and citizens are trained as weather spotters</b>	<b>HMC, Fire Department</b>	<b>Ongoing</b>	<b>N</b>	<b>LF</b>	✓	✓		✓	✓						
Tornados/ Storms <b>T #2</b>	Promote use of NOAA radios in senior housing, private homes, and large gatherings.	HMC, media	1 – 2 years			✓	✓		✓	✓		✓	✓			
<b>2009 Update</b>	<b>Post Brochures on bulletin boards at Post office and stores. Include on Fire Dept. website</b>	<b>HMC, media, Fire Dept.</b>	<b>3-6 months</b>	<b>R</b>	<b>LF</b>	✓	✓		✓	✓		✓				

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Tornados/ Storms <b>T #3</b>	Update and maintain list of buildings that are designated “after the event” as shelters, distribute list.	HMC, Emergency Operations personnel, media	3 months			✓	✓		✓	✓		✓	✓	
<b>2009 Update</b>	<b>Update List of buildings available to be used as shelters and method of access to buildings as needed. Update list annually</b>	<b>HMC, Fire Dept.</b>	<b>3 months</b>	<b>R</b>	<b>LF</b>	✓	✓		✓	✓			✓	
Tornados/ Storms <b>T #4</b>	Educational brochures on what to do during a tornado or severe storm.	HMC, media	1 year			✓	✓		✓	✓				
<b>2009 Update</b>	<b>Post Brochures on bulletin boards at Post office and stores. Include on Fire Dept. website</b>	<b>HMC, Fire Dept.</b>	<b>3-6 months</b>	<b>R</b>	<b>LF</b>	✓	✓		✓	✓				
Tornados/ Storms <b>T #5</b>	Investigate opportunities to obtain warning siren.	HMC	1-2 years			✓	✓	✓	✓				✓	
<b>2009 Update</b>	<b>Currently have applied for a grant to obtain a warning siren</b>	<b>HMC</b>	<b>1 year</b>	<b>N</b>	<b>LF F-S-G</b>	✓	✓		✓	✓		✓	✓	<b>N</b>
Tornados/ Storms <b>T #6</b>	Establish a plan to warn citizens until a warning siren can be obtained.	HMC	6 months			✓	✓	✓	✓	✓		✓	✓	
<b>2009 Update</b>	<b>Ongoing. Fire truck with PA system to warn citizens</b>	<b>HMC, Fire Dept.</b>	<b>Ongoing</b>	<b>O</b>	<b>LF</b>	✓	✓		✓	✓			✓	

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						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 **
Winter Weather/ <b>WW #1</b>	Coordinate with utility company to trim or remove trees from power line easements.	Utility Company, HMC	Ongoing			✓	✓	✓	✓	✓		✓	✓	
<b>2009 Update</b>	<b>Ongoing</b>	<b>AmerenUE</b>	<b>Ongoing</b>	<b>O</b>	<b>LF</b>	✓	✓		✓				✓	
Winter Weather/ <b>WW # 2</b>	Develop a snow removal plan.	HMC	6 months			✓	✓	✓	✓				✓	
<b>2009 Update</b>	<b>Ongoing General Maintenance employee plows as needed.</b>	<b>General Maintenance Dept</b>	<b>Ongoing</b>	<b>O</b>	<b>LF</b>	✓	✓	✓	✓				✓	
<b>2009 Update</b>	<b>Winter Weather/ WW #3</b>	<b>AmerenUE will place new 3-phase lines through-out the city within 6 months- 1 year</b>	<b>1 year</b>	<b>N</b>	<b>LF</b>	✓	✓		✓			✓	✓	
Earthquake <b>EQ #1</b>	Informational brochures available to public, newspaper articles.	HMC, media	1 year			✓	✓		✓	✓		✓		
<b>2009 Update</b>	<b>Post Brochures on bulletin boards at Post office and stores. Include on Fire Dept. website</b>	<b>HMC, Fire Dept.</b>	<b>3-6 months</b>	<b>R</b>	<b>LF</b>	✓	✓		✓	✓				

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Earthquake <b>EQ #2</b>	Participate in regularly scheduled training exercises.	HMC	Ongoing			✓	✓	✓	✓			✓	✓	
<b>2009 Update</b>	<b>Will participate with in next year.</b>	<b>Fire Dept, Police Dept., HMC</b>	<b>6 months-1 year</b>	<b>R</b>	<b>LF</b>	✓	✓		✓	✓			✓	
<b>2009 Update Earthquake EQ #3</b>	<b>Building codes are in place. Appoint a building inspector - 6 months</b>	<b>HMC</b>	<b>6 months</b>	<b>N</b>	<b>LF</b>	✓	✓		✓	✓				<b>E N</b>
<b>2009 Update Earthquake EQ #4</b>	<b>Encourage the private Christian school and daycare to participate in earthquake drills.</b>	<b>HMC</b>	<b>6 months</b>	<b>N</b>	<b>LF</b>	✓	✓		✓	✓				
Extreme Heat/ Drought <b>EHD #1</b>	Establish cooling centers.	HMC	Ongoing			✓	✓		✓	✓		✓		
<b>2009 Update</b>	<b>Establish a cooling center at a shelter as needed.</b>	<b>Fire Dept, Police Dept., HMC</b>	<b>Ongoing</b>	<b>O</b>	<b>LF</b>	✓	✓		✓	✓			✓	<b>E</b>

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Extreme Heat/ Drought <b>EHD #2</b>	Encourage Drought resistant yard watering practices.	HMC University Outreach	Ongoing				✓				✓	✓	✓		
<b>2009 Update</b>	<b>Ongoing</b>	<b>HMC University Outreach</b>	<b>Ongoing</b>	<b>O</b>	<b>LF</b>		✓				✓	✓			
Wildfire <b>WF # 1</b>	Burning bans to be issued by the City and / or Fire Department as needed.	HMC, Fire Department	Ongoing			✓	✓	✓	✓	✓	✓		✓		
<b>2009 Update</b>	<b>Ongoing, City can also issue burning ban.</b>	<b>HMC, City, Fire Department</b>	<b>Ongoing</b>	<b>O</b>	<b>LF</b>	✓	✓		✓	✓	✓				
<b>2009 Update</b> <b>Flooding</b> <b>F #1</b>	<b>Establish a committee to study the storm water drainage in the city and apply for grants to correct problems as funds becomes available.</b>	<b>HMC, Water Dept.</b>	<b>1- 5 years</b>	<b>N</b>	<b>LF F-S-G</b>	✓	✓		✓	✓	✓				<b>N</b>
<b>2009 Update</b> <b>Dam Failure</b> <b>DF</b>	<b>NA</b>		<b>X</b>												

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2009 Update Levee Failure LF	NA		X												
2009 Update Landslide LS	NA		X												
2009 Update Sinkholes SH	NA		X												
2009 Update															
2009 Update															

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