

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

Section 8

Eolia

Pike County, Missouri

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Village Profile----Eolia

History of Eolia

Eolia is located on US 61 in the far southern part of Pike County. The village of Eolia owes its birth to the railroad. In about 1880 the St Louis and Hannibal Railroad bypassed the town of Prairieville by just one mile. This event was the unfortunate undoing of Prairieville because the businesses moved to be located along the Short Line Railroad. This business area was laid out in 1881. Eolia supplanted the town of Prairieville and nothing remains today but a church and a few cemeteries. The name Eolia comes from the Latin word “Aeolia” which means cold and windy because the town was cold and windy when the survey was completed. Eolia prospered and was incorporated in 1964 and remains a thriving community of over 435 people. The railroad that gave birth to the town no longer services the area.

In addition to its collection late 19th century commercial buildings and homes one of Eolia’s finest historic landmarks is St. John’s Church. Located about one mile north of town in the long vanished town of Prairieville this pristine example of Greek Revival church architecture with its graceful arched windows was erected in 1856 on a four acre site graced with stately trees and spectacular views of distant valleys. It is the first Episcopal Church west of the Mississippi and is listed on the National Register of Historic Places.



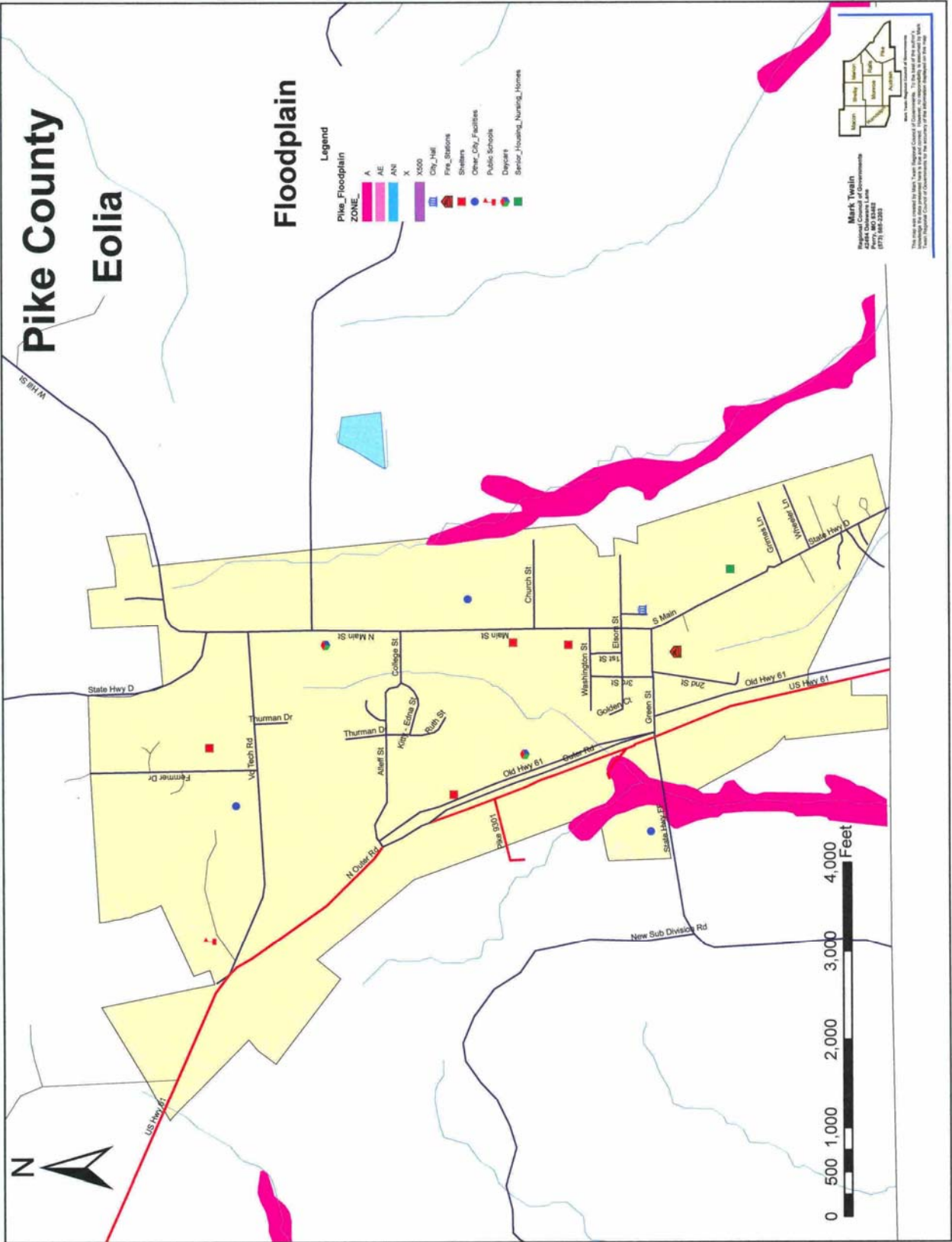
St. John’s Church, NRHP

Form of Government

Eolia’s village government is Chairman and Board of Trustees.

Participation in NFIP (National Flood Insurance Program)

Eolia has no special flood zone identified and does not participate in the NFIP.



Population and Demographics

Eolia has a diverse population by age. . The median age in Eolia is 37.6 years. The population under the age of five years is 6.9%. Senior citizens, those over the age of 65, constitute 16.3% of the Eolia 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 Eolia.

Village of Eolia	2000 Census	
Population Density	Number	Percent
Total Persons	435	100
Number of Households	181	xx
Average Household Size	2.40	xx
Source: 2000 U.S. Census		

Village of Eolia	2000 Census	
Population by Age Group	Number	Percent
Under 5 years	30	6.9
Between 5 and 19 years	91	20.9
Between 20 and 64 years	243	55.9
65 years and over	71	16.3
Median age	37.6 years	xx
Source: 2000 U.S. Census		

Utilities

Water	Supplied by:	Bowling Green Water District # 1
Wastewater	Supplied by:	Village of Eolia
Electricity	Supplied by:	AmerenUE and Cuivre River Electric Co-op
Gas		None

Employment

Eolia has a diverse work force as seen in Table 3. The 2000 Census records show that Eolia had an unemployment rate of 5.2% out of total work force of 225 persons. These workers had a mean travel time to work of 35.2 minutes and their median household income was \$35,104. The statistics show that over 26% of the work force is professional or management. An additional 34% is in service, sales and office employment. Construction, maintenance, production and transportation account for an additional 39%.

Village of Eolia	2000 Census	
Occupation	Number	Percent
Management, Professional	55	26.6
Service occupations	27	13.0
Sales and office occupations	43	20.8
Farming, fishing, and forestry	2	1.0
Construction and maintenance	20	9.7
Production and transportation	60	29.0
Total civilians employed	207	xx
Unemployment rate	18	5.2
Mean Travel time to work	35.2minutes	xx
Median Household Income	\$35,104	xx
Persons below poverty level	79	18.1
Source: 2000 U.S. Census		

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

Education

The tables below show Eolia's education profile. At least 80 % of those over 25 years of age have at least earned their high school diploma. Over 13 % of those have gone on to obtain an Associate, Bachelor, or advanced college degree.

Village of Eolia	2000 Census	
Education Profile	Number	Percent
Total Persons over 25 years old	273	100
Less than High School Degree	53	19.4
High School Graduate	136	49.8
Some college	48	17.6
Associate or Bachelor Degree	32	11.7
Post-graduate or Professional Degree	4	1.5
Source: 2000 U.S. Census		

Village of Eolia	2000 Census	
Educational Enrollment	Number	Percent
Total Persons enrolled in school	97	100
Nursery, pre-school	7	7.2
Kindergarten	7	7.2
Elementary (1 – 8)	42	43.3
High School (9 – 12)	25	25.8
College or graduate school	16	16.5
Source: 2000 U.S. Census		

Students in Eolia are in the Clopton School District # 3. The Clopton Schools are located at 28176 Hwy WW a few miles to the north of Eolia.

The Pike/Lincoln Technical Center is located in Eolia. This school serves both Pike and Lincoln Counties. The Pike/Lincoln Technical Center provides career and technical skill-building instruction, job seeking and retention skills, employability skill preparation, academic skill and GED instruction.

Name	Location	Students	Staff
Clopton # 3			
Clopton Elementary	28176 Hwy WW	313	29
Clopton High School	28176 Hwy WW	283	27
Pike/Lincoln Tech. Ctr.	430 Vo-Tech Rd, Eolia	205	17



Pike / Lincoln Technical Center

Vulnerabilities

Public and Critical Facilities

Name	Location	City
U.S. Facilities		
U.S. Post Office	2 nd Street	Eolia
Missouri Facilities		
MODOT Maintenance	Highway 61	Eolia
Village of Eolia Facilities		
Eolia Village Hall	Elsom St.	Eolia
Eolia Police Department	Elsom St.	Eolia
Eolia Volunteer Fire Department	2 nd St.	Eolia

Health Care Facilities—none located within village limits

Long Term Care and / or Nursing Homes / Senior Housing

Name	Location	Capacity
Eolia Senior Housing	S. Main St., Eolia	10 units

Licensed Child Care Facilities

Name	Location	Capacity
Barbara Cohea	419 N. Main, Eolia	10

Schools

Name	Location	Students	Staff
Pike/Lincoln Tech. Ctr.	430 Vo-Tech Rd, Eolia	205	17

Trailer Courts—none within the village 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	2 nd Street	Eolia
Missouri Facilities		
MODOT Maintenance	Highway 61	Eolia
Village of Eolia Facilities		
Eolia Village Hall	Elsom St.	Eolia
Eolia Police Department	Elsom St.	Eolia
Eolia Volunteer Fire Department	2 nd St.	Eolia

Law Enforcement and Fire Departments

Name	Location	Staff
Eolia Volunteer Fire Dept.	2 nd St., Eolia	20 firefighters
Eolia Police Dept.	Elsom St., Eolia	2 officers PT

Health Care Facilities—none located within village limits

Emergency Operations Centers

Name	Location
Eolia Volunteer Fire Dept.	2 nd St., Eolia

Shelters

There are four churches within the village limits of Eolia. All four could be “After the Event” shelters. See the map for the locations.

Emergency services

911Center

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

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

In addition Eolia 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 village of Eolia. 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

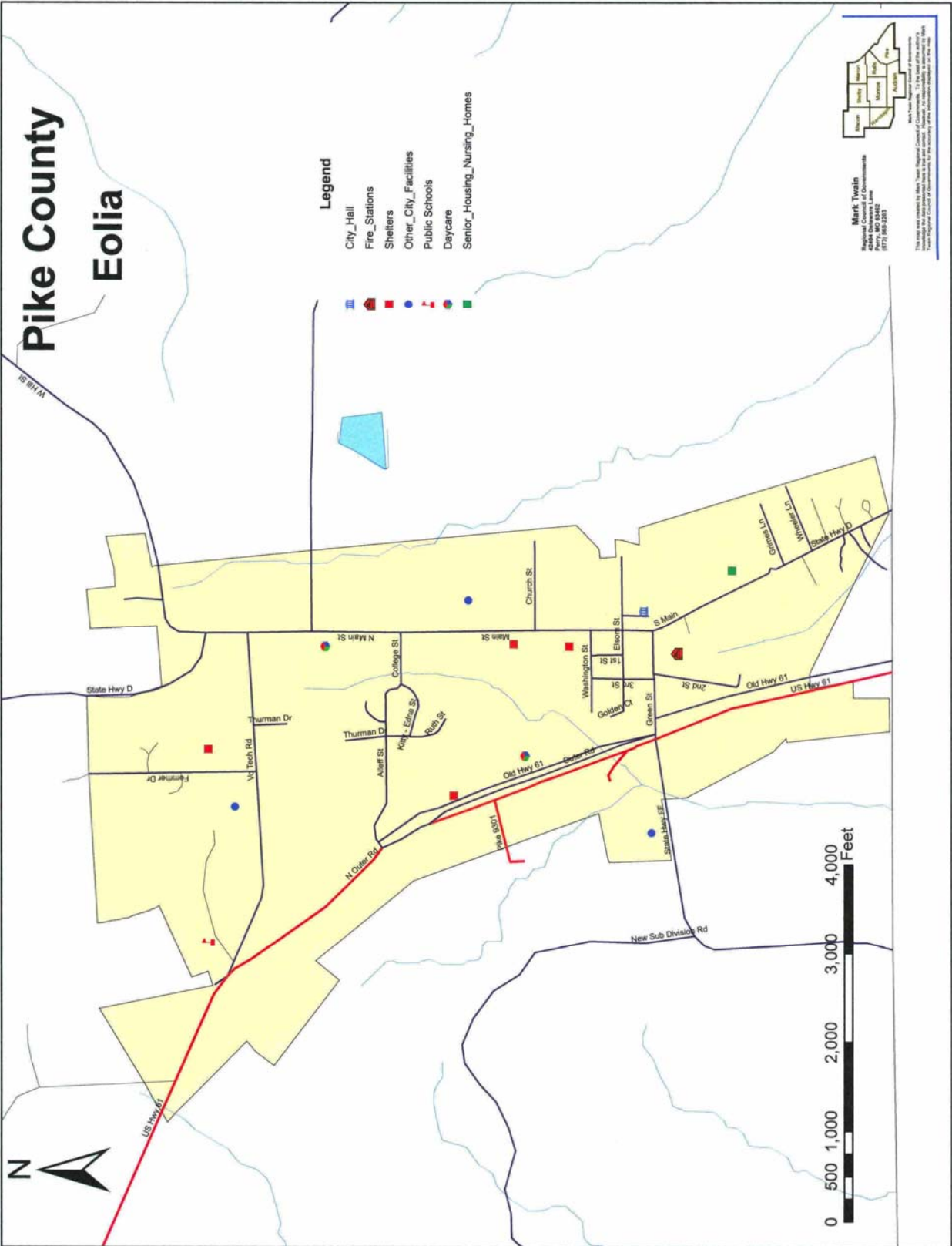
Emergency Operations Plans (EOP)

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 Eolia 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 Eolia 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 socially acceptable, technically feasible, admistratively executable by local communities, politically acceptable, legally implemented by county, economically feasible and environmentally 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 Eolia-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 Eolia 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 Eolia. Timeframe for completion, strategies to complete each action item and the coordinating organizations were determined for each action.

The action items addressed by the Eolia 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 Eolia, 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 Eolia 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 Eolia. 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 village of Eolia 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.**

Village of Eolia---Hazard Mitigation Committee 2009

Amy Waller
Tim Waller

City Clerk
City Maintenance
Fire Chief
Firefighter
Alderman

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. -- Ongoing. Update communications as the county upgrades.	✓	✓	✓	✓	✓	✓	NA
AH #2	Maintain and replace missing street signs. -- Ongoing and current. All numbers in town in accordance with 911 standards	✓	✓	✓	✓	✓	✓	NA
AH #3	Obtain sufficient back-up generators for designated “after the event” shelters and communications for emergency personnel. -- Completed. Fire Station has generator (fire station is EOC and also a shelter) Also 3 portable generators are available as needed in the city garage.	✓	✓	✓	✓	✓	✓	NA
AH #4	Education, brochures, provided to citizens. -- Post brochures on the bulletin boards (several) in town and at the Fire Dept.	✓	✓	✓	✓	✓	✓	NA
AH #5	Promote NOAA radio Use. -- Post brochures on the bulletin boards (several) in town and at the Fire Dept.	✓	✓	✓	✓	✓	✓	NA
AH #6	Participate in regularly scheduled Table-top exercises and mock emergency exercises. -- Fire Dept participates in classes and exercises throughout the year	✓	✓	✓	✓	✓	✓	NA
AH #7	Fire Chief is the EMD for the city	✓	✓	✓	✓	✓	✓	NA
AH #8	Generators are available for the sewer plant	✓	✓	✓	✓	✓	✓	✓
AH #9	Upgrade the electrical hook-up at the city hall/community center to accommodate a generator so the location can be a secondary EOC and an “after the event” shelter	✓	✓	✓	✓	✓	✓	NA
T #1	Participate in regularly scheduled training for weather spotters. -- Ongoing. Sufficient weather spotters for the city	✓	✓	✓	✓	✓	✓	NA
T #2	Promote use of NOAA radios in senior housing, private homes, and large gatherings. -- Post brochures on the bulletin boards (several) in town and at the Fire Dept.	✓	✓	✓	✓	✓	✓	NA
T #3	Update and maintain list of buildings that are designated as shelters, distribute list. -- Update list	✓	✓	✓	✓	✓	✓	NA
T #4	Educational brochures on what to do during a tornado or severe storm. -- Post brochures on the bulletin boards (several) in town and at the Fire Dept.	✓	✓	✓	✓	✓	✓	NA
T #5	Investigate opportunities to obtain warning siren. -- City acquired a warning siren in 2009. Conduct monthly testing.	✓	✓	✓	✓	✓	✓	NA
T #6	Establish a plan to warn citizens until a warning siren can be obtained. -- Investigate opportunities to acquire a second siren as funds become available.	✓	✓	✓	✓	✓	✓	NA

**** 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

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.							
WW #1	Coordinate with utility company to trim or remove trees from power line easements. -- Ongoing	✓	✓	✓	✓	✓	✓	NA
WW# 2	Maintain snow plowing and removal equipment. -- Ongoing and upgrade equipment as needed and funds become available.	✓	✓	✓	✓	✓	✓	NA
EQ #1	Informational brochures available to public, newspaper articles. -- Post brochures on the bulletin boards (several) in town and at the Fire Dept. Also the Pike-Lincoln VoTech School conducts earthquake exercises annually.	✓	✓	✓	✓	✓	✓	NA
EQ #2	Participate in regularly scheduled training exercises. -- Fire Dept participates in classes and exercises throughout the year.	✓	✓	✓	✓	✓	✓	NA
EHD #1	Establish cooling centers. -- Cooling Center at the Community Center as needed.	✓	✓	✓	✓	✓	✓	NA
EHD #2	Encourage Drought resistant yard watering practices. -- Pike County Water District issues watering restrictions as needed.	✓	✓	✓	✓	✓	✓	✓
WF # 1	Burning bans to be issued by the County Commission and Fire Department as needed. -- Ongoing	✓	✓	✓	✓	✓	✓	✓
F	NA							
DF	NA							
LF	NA							
SH	NA							
LS	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

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 , Board of Trustees, Fire Dept.	1 year			✓	✓	✓	✓			✓	✓	
2009 Update	Ongoing. Update communications as the county upgrades.	HMC, Fire Dept.	Ongoing	O	LF F-S-G	✓	✓	✓	✓			✓	✓	
All hazards AH #2	Maintain and replace missing street signs.	Pike County 911 HMC	Ongoing					✓		✓		✓	✓	
2009 Update	Ongoing and current. All numbers in town in accordance with 911 standards	Pike County 911 HMC	Ongoing	O	LF	✓	✓		✓	✓			✓	
All hazards AH #3	Obtain sufficient back-up generators for designated—"after the event" shelters and communications for emergency personnel.	HMC, Emergency Operations personnel	1-2 years			✓	✓					✓	✓	
2009 Update	Completed. Fire Station has generator (fire station is EOC and also a shelter) Also 3 portable generators are available as needed in the city garage.	HMC, Fire Dept., Street Dept.	Complete	O	LF	✓	✓	✓	✓			✓	✓	E
All hazards AH #4	Education, brochures, provided to citizens.	HMC, media	1-2 years			✓	✓			✓		✓		
2009 Update	Post brochures on the bulletin boards (several) in town and at the Fire Dept.	HMC, Fire Dept.	Ongoing	O	LF	✓	✓		✓	✓				

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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 AH #5	Promote NOAA radio Use.	HMC, media	1 year			✓	✓			✓		✓		
2009 Update	Post brochures on the bulletin boards (several) in town and at the Fire Dept.	HMC, Fire Dept.	3 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	Fire Dept participates in classes and exercises throughout the year	HMC, Fire Dept.	Ongoing	O	LF	✓	✓	✓	✓				✓	
2009 Update All hazards AH #7	Fire Chief is the EMD for the city	HMC, Fire Dept.	Ongoing	N	LF		✓	✓				✓	✓	
2009 Update All hazards AH #8	Generators are available for the sewer plant	HMC, Water and Sewer Dept.	Ongoing	N	LF	✓	✓	✓	✓		✓			E
2009 Update All hazards AH #9	Upgrade the electrical hook-up at the city hall/community center to accommodate a generator so the location can be a secondary EOC and an “after the event” shelter	HMC, Utility Dept.	1-3 years	N	LF	✓	✓	✓	✓	✓		✓	✓	

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Tornados/ Storms T #1	Participate in regularly scheduled training for weather spotters.	HMC, Fire Department	Ongoing			✓	✓	✓	✓			✓	✓	
2009 Update	Ongoing. Sufficient 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	Post brochures on the bulletin boards (several) in town and at the Fire Dept.	HMC, Fire Dept.	3 months	R	LF	✓	✓		✓	✓				
Tornados/ Storms T #3	Update and maintain list of buildings that are designated as shelters, distribute list.	HMC, Fire Dept., Emergency Operations personnel, media	Ongoing			✓	✓		✓	✓		✓	✓	
2009 Update	Update list	HMC, Fire Dept.	6 months	R	LF	✓	✓		✓	✓			✓	
Tornados/ Storms T #4	Educational brochures on what to do during a tornado or severe storm.	HMC, media	1 year			✓	✓		✓	✓				
2009 Update	Post brochures on the bulletin boards (several) in town and at the Fire Dept.	HMC, Fire Dept.	Ongoing	R	LF	✓	✓		✓	✓				

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Tornados/ Storms T #5	Investigate opportunities to obtain warning siren.	HMC	1-2 years			✓	✓	✓	✓				✓	
2009 Update	City acquired a warning siren in 2009. Conduct monthly testing.	HMC, Fire Dept.	Ongoing	N	LF	✓	✓		✓	✓			✓	E
Tornados/ Storms T #6	Establish a plan to warn citizens until a warning siren can be obtained.	HMC	6 months			✓	✓	✓	✓	✓		✓	✓	
2009 Update	Investigate opportunities to acquire a second siren as funds become available.	HMC, Fire Dept.	1-2 years	N	LF F-S-G	✓	✓		✓	✓			✓	N
Winter Weather/ WW #1	Coordinate with utility company to trim or remove trees from power line easements.	AmerenUE Utility Company, HMC	Ongoing			✓	✓	✓	✓	✓		✓	✓	
2009 Update	Ongoing	AmerenUE, HMC	Ongoing	O	LF	✓	✓	✓	✓			✓	✓	
Winter Weather/ WW # 2	Maintain snow plowing and removal equipment.	Street Dept. HMC	Ongoing			✓	✓		✓				✓	
2009 Update	Ongoing and upgrade equipment as needed and funds become available.	HMC, Street Dept	Ongoing	O	LF	✓	✓	✓	✓			✓	✓	

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Earthquake EQ #1	Informational brochures available to public, newspaper articles.	HMC, media	1 year			✓	✓		✓	✓		✓		
2009 Update	Post brochures on the bulletin boards (several) in town and at the Fire Dept. Also the Pike-Lincoln VoTech School conducts earthquake exercises annually.	HMC, Fire Dept., Vo-Tech school	Ongoing	O	LF	✓	✓		✓	✓				
Earthquake EQ #2	Participate in regularly scheduled training exercises.	HMC, Fire Dept., Emergency Operations Personnel	Ongoing			✓	✓	✓	✓			✓	✓	
2009 Update	Fire Dept participates in classes and exercises throughout the year.	HMC, Fire Dept.	Ongoing	O	LF	✓	✓	✓	✓			✓	✓	
Extreme Heat/ Drought EHD #1	Establish cooling centers.	HMC, Pike Co. Health Dept.	Ongoing			✓	✓		✓	✓		✓		
2009 Update	Cooling Center at the Community Center as needed.	HMC	Ongoing	O	LF	✓	✓		✓	✓		✓		
Extreme Heat/ Drought EHD #2	Encourage Drought resistant yard watering practices.	HMC University Outreach	Ongoing				✓			✓	✓	✓		
2009 Update	Pike County Water District issues watering restrictions as needed.	HMC, Pike County Water District	Ongoing	O	LF		✓		✓	✓	✓	✓		

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Wildfire WF # 1	Burning bans to be issued by the County Commission and Fire Department as needed.	HMC, Fire Department	Ongoing			✓	✓	✓	✓	✓	✓		✓	
2009 Update	Ongoing	HMC, Fire Dept, Commission	Ongoing	O	LF	✓	✓		✓	✓	✓			
2009 Update Flooding F	NA													
2009 Update Dam Failure DF	NA													
2009 Update Levee Failure LF	NA													
2009 Update Sinkhole SH	NA													
2009 Update Landslide LS	NA													

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