
SECTION 4

Introduction to Mitigation

Definition of hazard mitigation

“Hazard Mitigation” means to permanently reduce or alleviate the losses of life, injuries, and property resulting from natural and human-made hazards through long-term strategies.

Categories of Hazard Mitigation

Long-term strategies include planning, policy changes, programs, projects, and other activities. Mitigation is the responsibility of individuals, private businesses, industries, and state, local and federal governments. In general, all of these activities fall into one of the following broad categories of mitigation:

1. Prevention

Preventative activities are intended to keep hazard problems from getting worse. They are particularly effective in reducing a community’s future vulnerability, especially in areas where development has not occurred or capital improvements have not been substantial. Examples of preventative activities include:

- a) Planning and Zoning
- b) Open space preservation
- c) Floodplain regulations
- d) Stormwater management
- e) Capital improvements programming

2. Property Protection

Property protection measures protect existing structures by modifying the building to withstand hazardous events, or removing structures from hazardous locations. Examples include:

- a) Acquisition
- b) Relocation
- c) Building elevation
- d) Critical facilities protection
- e) Retrofitting (i.e., windproofing, floodproofing, seismic design standards, etc.)

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- f) Insurance
 - g) Safe rooms

3. Natural Resource Protection

Natural resource protection activities reduce the impact of natural hazards by preserving or restoring natural areas and their mitigative functions. Such areas include floodplains and wetlands. Parks, recreation, or conservation agencies and organizations often implement these measures. Examples include:

- a) Floodplain protection
- b) Riparian buffers
- c) Fire resistant landscaping
- d) Fuel Breaks
- e) Erosion and sediment control
- f) Wetland preservation and restoration
- g) Habitat preservation
- h) Slope stabilization

4. Structural Projects

Structural mitigation projects are intended to lessen the impact of a hazard by modifying the environmental natural progression of the hazard event. They are usually designed by engineers and managed or maintained by public works staff. Examples include:

- a) Reservoirs
- b) Levees/floodwalls
- c) Diversions / Detention / Retention
- d) Channel modification
- e) Storm sewers

5. Emergency Services

Although not typically considered a “mitigation technique,” emergency service measures do minimize the impact of a hazard event on people and property. These commonly are actions taken immediately prior to, during, or in response to a hazard event. Examples include:

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- a) Warning systems
 - b) Evacuation planning and management
 - c) Sandbagging for flood protection
 - d) Installing shutters for wind protection

6. Public Information and Awareness

Public information and awareness activities are used to advise residents, business owners, potential property buyers, and visitors about hazards, hazardous areas, and mitigation techniques they can use to protect themselves and their property. Examples of measures to educate and inform the public include:

- a) Outreach projects
- b) Speaker series / demonstration events
- c) Hazard map information
- d) Real estate disclosure
- e) Library materials
- f) School children education
- e) Hazard expositions

Mitigation Versus Preparedness, Response, and Recovery

Comprehensive emergency management is a widely used approach at the local, state, and federal levels to deal with the inevitability of natural hazards and their potential to cause disasters in a given community. The components of a comprehensive emergency management system include:

1. **Preparedness** activities, which are undertaken to improve the ability to respond quickly in the immediate aftermath of an incident. Preparedness activities include development of response procedures, design and installation of warning systems, exercises to test emergency operational procedures, and training of emergency personnel.

2. **Response** activities occur during or immediately following the disaster, and include such time-sensitive items as search and rescue operations, evacuation, emergency medical care, food, and shelter programs. Response activities are designed to meet the urgent needs of disaster victims.

3. **Recovery** activities are emergency management actions which begin after the

disaster, as urgent needs are met. These actions are designed to put the community back together, and include repairs to roads, bridges, and other public facilities, restoration of power, water, and other municipal services, and other activities that help restore normal operations to a community.

4. Mitigation activities reduce or eliminate the damages from hazardous events. These activities can occur before, during, and after a disaster, and overlap all phases of emergency management. Structural mitigation pertains to actions such as dam and levee projects to protect against flooding, constructing disaster-resistant structures, retrofitting existing structures to withstand events, etc. Non-structural mitigation activities include development of land use plans, zoning ordinances, subdivision regulations, and tax incentives and disincentives to discourage development in certain high-hazard areas. Mitigation also includes education programs for members of the public about the hazards to which their community is vulnerable, as well as the importance of mitigation and how to prepare their property to withstand a disaster.

Mitigation Plan Benefits

Mitigation planning offers many benefits that include saving lives and property, speeding recovery following disasters, and insuring the community has full access to both pre-disaster and post-disaster federal/state funding. Mitigation planning will potentially reduce the loss of essential services, critical facilities, and economic hardship.

More importantly, mitigation planning has the potential to produce long-term and recurring benefits by breaking the repetitive cycle of disaster loss. A core assumption of mitigation is that current dollars invested in mitigation practices will significantly reduce the demand for future dollars by lessening the amount needed for emergency recovery, Repair, and reconstruction.

Mitigation planning will also lead to benefits that go beyond solely reducing hazard vulnerability. Measures such as the acquisition or regulation of land in known hazard areas can help achieve multiple community goals. These goals include preserving open space, maintaining environmental health and natural features, and enhancing recreational opportunities. Many of these common goals will become increasingly evident as a community begins to walk through the local mitigation planning process.

County Hazard Mitigation Goals, Objectives, Strategy, and Coordination

Mitigation Goals and Objectives

Goals are statements or desirable future conditions that are to be achieved.

Objectives provide intermediate steps toward achieving a goal. Objectives are more tangible and specific than goals and may be quantified. Joint meetings between the Bootheel Regional Planning Commission staff, local public officials, and the Steering Committee for Dunklin County developed the following goals. An informational meeting for County Commissioners and Mayors of Dunklin County was held on September 23, 2004 at the Dunklin County Court House in Kennett, Missouri. A Hazard Mitigation meeting was held on February 15, 2005, at 5:30 p.m. at Dunklin County Court House to discuss mitigation goals, objectives, and strategies. Those in attendance included: Bootheel RPC staff, County Commissioner, City Managers, local citizens and law enforcement officers.

Evaluation

Several mitigation goals, objectives, and strategies were proposed at the mitigation workshop. Participants received a preliminary draft of the capabilities, vulnerabilities, and mitigation sections of the plan prior to the meeting.

The following table provides an analysis of the county's proposed mitigation goals and objectives. Each objective was reviewed according the STAPLEE criteria. STAPLEE criteria include: social, technical, administrative, political, legal, economic and environmental considerations. The checks in the columns indicate the objective would have a positive effect.

Dunklin County Proposed Mitigation Evaluation:							
Criteria	S	T	A	P	L	E	E
Goal 1. Eliminate loss of life, minimize injuries, and reduce property damage caused by tornadoes and severe thunderstorms							
Objective 1.1: Adopt building codes that require new structures to have approved roof rafter to plate fastening schedule to withstand and F1 tornado	X	X	X	X	X	X	X
Objective 1.2: Adopt policies for new mobile parks and recreational facilities.	X	X	X	X	X	X	X
Objective 1.3: Host workshops annually for business owners and public facilities administrators	X	X		X			
Goal 2. Minimize property damage due to flooding of streams							
Objective 2.1: Develop design criteria for drainage structures on roads within the county’s jurisdiction.	X	X	X			X	X
Objective 2.2: Implement erosion control measures on all county highway projects.	X	X				X	X
Objective 2.3: Develop a floodplain management program consistent with NFIP.	X	X	X	X	X	X	X
Goal 3. Minimize injuries and property damage due to seismic events.							
Objective 3.1: Adopt BOCA seismic design building codes for future construction	X	X	X	X	X	X	X
Objective 3.2: Designate an Emergency Operations Center and conduct annual coordination exercises.	X		X	X			
Objective 3.3: Co-sponsor with appropriate school boards an earthquake public awareness program for local schools.	X		X	X			
Goal 4. Minimize the impact to natural and human resources caused by drought and/or heat wave.							
Objective 4.1: Adopt “best practices” policy in conjunction with the Soil and Water Conservation Commission.	X	X	X	X			X
Objective 4.2: Meet with Public Electric Utility Companies to develop “best practices” for power conservation.	X		X	X			
Objective 4.3: Sponsor annual safety meeting for county employees	X	X	X	X			
Goal 5. Maintain public services to minimize the risk and reduce property damage caused by severe winter weather.							
Objective 5.1: Create an emergency snow route for county roads	X	X	X	X		X	
Objective 5.2: Meet annually with critical facilities administrators to develop severe winter weather strategies.	X	X	X	X	X	X	
Objective 5.3: Educate the public utility end user on preventive measures to reduce the risk to property.	X	X	X	X	X	X	X

Workshop participants discussed suggestions listed and after some discussion chose not to eliminate any recommendations, but to endorse those listed below.

Goal 1. Eliminate loss of life, minimize injuries, and reduce property damage caused by *tornadoes and severe thunderstorms*.

a) Objective 1.1: Adopt building codes that require new structures built after July 1, 2006 to have BOCA- approved roof rafter to plate fastening schedule to withstand an F-1 tornado.

b) Objective 1.2: Adopt policies for new mobile home parks and recreational facilities that provide shelters within 100 yards of any resident or participant by July 1, 2006.

c) Objective 1.3: Host workshops annually for business owners and public facilities administrators to develop plans for the occupants should severe storms threaten.

a) Recommendation 1.1: The County Commission officially approves adding Objective 1.1 to its county building permits effective July 1, 2006.

b) Recommendation 1.2: Host meetings with manufactured home park operators and recreational facilities administrators to develop a plan to provide shelters for their residents and participants.

c) Recommendation 1.3: Invite SEMA representatives and professional architects and engineers to workshops to help businesses and public facilities administrators develop plans for the protection of the occupants during severe weather conditions.

Goal 2. Minimize property damage due to *flooding* of streams.

a) Objective 2.1: Develop design criteria for drainage structures on roads within the county's jurisdiction to be effective July 1, 2005.

b) Objective 2.2: Implement erosion control measures on all county highway projects constructed after July 1, 2006.

c) Objective 2.3: Develop a floodplain management program consistent with NFIP for county development to be implemented on July 1, 2006.

a) Recommendation 2.1: Adopt AASHTO design criteria for cross road drainage structures on local roads.

b) Recommendation 2.2: Require site plan with foundation elevations submitted and approved before issuing building permits.

c) Recommendation 2.3: Contact University of Missouri about developing a “Pipe Culvert Installation “ workshop for county highway departments.

Goal 3. Minimize injuries and property damage due to *seismic events*.

a) Objective 3.1: Adopt BOCA seismic design building codes for future construction of critical facilities effective July 1, 2006.

b) Objective 3.2: Designate an Emergency Operations Center and conduct an annual coordination exercise with all county officials effective July 1, 2006.

c) Objective 3.3: Co-sponsor with appropriate school boards an earthquake public awareness program for local public schools.

a) Recommendation 3.1: Document site plan and seismic building design approvals for construction of critical facilities.

b) Recommendation 3.2: County Commission and Emergency Operations Officer meet to set time and agenda for annual coordination exercise.

c) Recommendation 3.3: Print earthquake preparedness brochures and distribute to libraries, city halls, and Dunklin County Courthouse for public education.

Goal 4. Minimize the impact to natural and human resources caused by *drought and/or heat wave*.

a) Objective 4.1: Adopt “best practices” policy in conjunction with the Soil and Water Conservation Commission to be implemented by July 1, 2006.

b) Objective 4.2: Meet with Public Electric Utility Companies to develop “best practices” for power conservation during periods of drought and heat waves to be implemented July 1, 2006.

c) Objective 4.3: Sponsor annual safety meetings for county employees to address heat stress beginning July 1, 2006.

a) Recommendation 4.1: Print brochures for “best practices” on water and electrical power conservation and make available at public locations.

b) Recommendation 4.2: Coordinate annual meetings with city officials to discuss conservation strategies.

c) Recommendation 4.3: Invite a Red Cross Trainer to county safety meetings to discuss preventive measures for heat stress.

Goal 5. Maintain public services to minimize the risk and reduce property damage caused by *severe winter weather*.

a) Objective 5.1: Create an emergency snow route map for the county road system to be distributed by July 1, 2006.

b) Objective 5.2: Meet annually with Critical Facilities Administrators to develop severe winter weather strategies beginning July 1, 2006.

c) Objective 5.3: Educate the public utility end user on preventive measures to reduce the risk to public and private property by July 1, 2006.

a) Recommendation 5.1: Meet annually with state and local officials to coordinate snow removal activities in September of each year.

b) Recommendation 5.2: Distribute brochures on proper tree trimming to reduce the risk of property damage during ice storms.

c) Recommendation 5.3: Meet with Health Care Officials and Local Veterinarians to develop “best practices” brochure on techniques to protect human life and domesticated animals during periods of severe cold weather and power outages.

Mitigation strategy

Dunklin County’s Mitigation Plan encompasses several jurisdictions. The Steering Committee, State/Local Officials, and comments from public meetings to reduce overall damage in the County identified strategies for hazard mitigation within the County. Although these strategies are aimed at reducing overall damage in the County, each jurisdiction will be responsible for pursuing the actions that are relevant to that jurisdiction. The jurisdictions, along with the specific actions they will pursue, are listed as follows:

Hazard Mitigation Categories Addressed

CATEGORY	PROACTIVE PLANNING	REACTIVE PLANNING	POTENTIAL ACTIONS
Prevention	Planning and Zoning		Adopt Building Codes
Property Protection	Retrofitting		Safe Rooms
Natural Resource Protection	Fuel Leakage Contingency Plan		Levee Fuel Storage
Structural Projects		Channel Modification	Debris Removal
Emergency Services		Evacuation Planning	County and City Facilities
Public Information and Awareness	School Children Education		Include in Curriculum

State-Level Mitigation Objectives/Measures

Priority list of projects should funds become available:

1. Develop and apply a combination of incentives to encourage businesses, homeowners, and others to implement risk reduction measures.
2. Install back-up power as needed to key infrastructure facilities such as water, sewer and essential government facilities.
3. Retrofit bracing of all hot water heaters, shelving, and bookcases, etc. in all schools, non-profit child care centers, and nursing homes.
4. Retrofit windows in all schools, non-profit childcare centers, and nursing homes with impact resistant materials.
5. Establish a public outreach program that ensures all members of the community have access to information on earthquake hazards, their consequences, and the steps that can be taken to reduce risk at home and in the workplace.
6. Promote the integration of the science of earthquakes into the curricula of K-

12; provide enhancement programs for K-12 teachers; promote hazards awareness, education, and safety in all K-12 safety programs.

7. Sponsor Earthquake Risk Reduction Seminars to improve the public's understanding of earthquakes, their potential consequences, and steps that can be taken to reduce the earthquake risk.

8. Purchase and install an integrated early warning system.

Identification and Analysis of Mitigation Measures

This plan has identified the natural hazards that pose the greatest risk to the citizens of Dunklin County and the cities, towns, and villages within its boundaries. The Dunklin County Commission promotes and supports development of local hazard mitigation plans, projects, and activities by acting as the lead agency in the goals established in this document. The goals, objectives, and recommendations place an emphasis on prevention and education. Mitigation measures have been identified that will yield the highest return on the investment of the tax-paying community.

Action Plan

Action 1 County building permit be revised to reflect roof rafter to plate fastening schedule.

Action 2 Schedule a meeting with manufactured home park operators and recreational facilities administrators to discuss shelters.

Action 3 Schedule workshop with businesses, public administrators, professional architects and engineers for SEMA presentation on natural hazards.

Action 4 Revise pipe culvert installation policy to include AASHTO design criteria for drainage structures.

Action 5 Revise building permits to include site plan and elevations with submittals for approval.

Action 6 Schedule a workshop for county highway personnel on pipe culvert installation and design.

Action 7 Revise policies to include seismic design on future construction of critical facilities.

Action 8 Schedule a meeting with Emergency Operations Officer to discuss

annual coordination exercise.

Action 9 Request an Earthquake Preparedness brochure from FEMA/SEMA Agencies for distribution.

Action 10 Request brochures from Power Companies about conservation practices for distribution.

Action 11 Schedule annual meeting with City Mayors to discuss power and water conservation practices.

Action 12 Contact a Red Cross Trainer to schedule a safety meeting with county employees about preventive measures for heat stress.

Action 13 Schedule a meeting between the county highway foreman, city street directors and state highway Area Engineer to discuss snow removal strategies.

Action 14 Request Tree Trimming brochures from the Department of Conservation for distribution.

Action 15 Schedule a meeting with Health Care Officials and Veterinarians to develop a “best practices” brochure for severe winter weather survival.

The above Action Items are strategies for reducing disaster damages. They include implementing activities that create partnerships and will have secondary and tertiary benefits. The above action items, when implemented, will create policies and activities that lead to projects for the region that mitigate natural hazards risk with public involvement and support.

City of Arbryd Action Plan

Goal/ Obj.	Action Plan Item	Priority (High/Med/ Low)	New, Revised or Ongoing	Est. Target Date	Probable Lead Organizer	Potential Funding	Effectiveness Measure
Goal 1 Obj. 1.1	A-1	High	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj. 1.2,1.3,	A-2	Medium	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj.1.3	A-3	High	New Revision	Continuing	County EMA, Mayor	Internal Funds	Plan Updates
Goal 2 Obj. 2.1,2.2	A-4	High	Revision	July, 2006	Floodplain Manager Mayor	Grant Funds	Flood Records
Goal 2 Obj. 2.2	A-5	High	Revision	July, 2006	Floodplain Manger	Internal Funds	Plan Updates
Goal 2 Obj. 2.3	A-6	N/A	Revision	Continuing	Floodplain Manager	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.1	A-7	High	Revision	Continuing	County EMA	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.2	A-8	High	New	Continuing	County EMA	Internal Funds	Attendance Records
Goal 3 Obj. 3.3	A-9	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.1, 4.2	A-10	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.2,4.3	A-11	Medium	New	July, 2007	County EMA	Internal Funds	Records Materials
Goal 4 Obj. 4.3	A-12	Medium	New	July, 2007	County EMA, Mayor	Internal Funds	Attendance Records
Goal 5 Obj. 5.1	A-13	Medium	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records Materials
Goal 5 Obj. 5.2	A-14	Low	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records, Materials
Goal 5 Obj. 5.1,5.2, 5.3	A-15	Low	New	July, 2008	County EMA, Mayor	Internal Funds	Attendance Records, Materials

City of Campbell Action Plan

Goal/ Obj.	Action Plan Item	Priority (High/Med/ Low)	New, Revised or Ongoing	Est. Target Date	Probable Lead Organizer	Potential Funding	Effectiveness Measure
Goal 1 Obj. 1.1	A-1	High	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj. 1.2,1.3,	A-2	Medium	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj.1.3	A-3	High	New Revision	Continuing	County EMA, Mayor	Internal Funds	Plan Updates
Goal 2 Obj. 2.1,2.2	A-4	High	Revision	July, 2006	Floodplain Manager Mayor	Grant Funds	Flood Records
Goal 2 Obj. 2.2	A-5	High	Revision	July, 2006	Floodplain Manger	Internal Funds	Plan Updates
Goal 2 Obj. 2.3	A-6	N/A	Revision	Continuing	Floodplain Manager	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.1	A-7	High	Revision	Continuing	County EMA	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.2	A-8	High	New	Continuing	County EMA	Internal Funds	Attendance Records
Goal 3 Obj. 3.3	A-9	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.1, 4.2	A-10	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.2,4.3	A-11	Medium	New	July, 2007	County EMA	Internal Funds	Records Materials
Goal 4 Obj. 4.3	A-12	Medium	New	July, 2007	County EMA, Mayor	Internal Funds	Attendance Records
Goal 5 Obj. 5.1	A-13	Medium	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records Materials
Goal 5 Obj. 5.2	A-14	Low	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records, Materials
Goal 5 Obj. 5.1,5.2, 5.3	A-15	Low	New	July, 2008	County EMA, Mayor	Internal Funds	Attendance Records, Materials

City of Cardwell Action Plan

Goal/ Obj.	Action Plan Item	Priority (High/Med/ Low)	New, Revised or Ongoing	Est. Target Date	Probable Lead Organizer	Potential Funding	Effectiveness Measure
Goal 1 Obj. 1.1	A-1	High	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj. 1.2,1.3,	A-2	Medium	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj.1.3	A-3	High	New Revision	Continuing	County EMA, Mayor	Internal Funds	Plan Updates
Goal 2 Obj. 2.1,2.2	A-4	High	Revision	July, 2006	Floodplain Manager Mayor	Grant Funds	Flood Records
Goal 2 Obj. 2.2	A-5	High	Revision	July, 2006	Floodplain Manger	Internal Funds	Plan Updates
Goal 2 Obj. 2.3	A-6	N/A	Revision	Continuing	Floodplain Manager	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.1	A-7	High	Revision	Continuing	County EMA	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.2	A-8	High	New	Continuing	County EMA	Internal Funds	Attendance Records
Goal 3 Obj. 3.3	A-9	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.1, 4.2	A-10	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.2,4.3	A-11	Medium	New	July, 2007	County EMA	Internal Funds	Records Materials
Goal 4 Obj. 4.3	A-12	Medium	New	July, 2007	County EMA, Mayor	Internal Funds	Attendance Records
Goal 5 Obj. 5.1	A-13	Medium	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records Materials
Goal 5 Obj. 5.2	A-14	Low	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records, Materials
Goal 5 Obj. 5.1,5.2, 5.3	A-15	Low	New	July, 2008	County EMA, Mayor	Internal Funds	Attendance Records, Materials

City of Clarkton Action Plan

Goal/ Obj.	Action Plan Item	Priority (High/Med/ Low)	New, Revised or Ongoing	Est. Target Date	Probable Lead Organizer	Potential Funding	Effectiveness Measure
Goal 1 Obj. 1.1	A-1	High	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj. 1.2,1.3,	A-2	Medium	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj.1.3	A-3	High	New Revision	Continuing	County EMA, Mayor	Internal Funds	Plan Updates
Goal 2 Obj. 2.1,2.2	A-4	High	Revision	July, 2006	Floodplain Manager Mayor	Grant Funds	Flood Records
Goal 2 Obj. 2.2	A-5	High	Revision	July, 2006	Floodplain Manger	Internal Funds	Plan Updates
Goal 2 Obj. 2.3	A-6	N/A	Revision	Continuing	Floodplain Manager	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.1	A-7	High	Revision	Continuing	County EMA	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.2	A-8	High	New	Continuing	County EMA	Internal Funds	Attendance Records
Goal 3 Obj. 3.3	A-9	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.1, 4.2	A-10	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.2,4.3	A-11	Medium	New	July, 2007	County EMA	Internal Funds	Records Materials
Goal 4 Obj. 4.3	A-12	Medium	New	July, 2007	County EMA, Mayor	Internal Funds	Attendance Records
Goal 5 Obj. 5.1	A-13	Medium	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records Materials
Goal 5 Obj. 5.2	A-14	Low	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records, Materials
Goal 5 Obj. 5.1,5.2, 5.3	A-15	Low	New	July, 2008	County EMA, Mayor	Internal Funds	Attendance Records, Materials

City of Hornersville Action Plan

Goal/ Obj.	Action Plan Item	Priority (High/Med/ Low)	New, Revised or Ongoing	Est. Target Date	Probable Lead Organizer	Potential Funding	Effectiveness Measure
Goal 1 Obj. 1.1	A-1	High	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj. 1.2,1.3,	A-2	Medium	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj.1.3	A-3	High	New Revision	Continuing	County EMA, Mayor	Internal Funds	Plan Updates
Goal 2 Obj. 2.1,2.2	A-4	High	Revision	July, 2006	Floodplain Manager Mayor	Grant Funds	Flood Records
Goal 2 Obj. 2.2	A-5	High	Revision	July, 2006	Floodplain Manger	Internal Funds	Plan Updates
Goal 2 Obj. 2.3	A-6	N/A	Revision	Continuing	Floodplain Manager	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.1	A-7	High	Revision	Continuing	County EMA	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.2	A-8	High	New	Continuing	County EMA	Internal Funds	Attendance Records
Goal 3 Obj. 3.3	A-9	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.1, 4.2	A-10	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.2,4.3	A-11	Medium	New	July, 2007	County EMA	Internal Funds	Records Materials
Goal 4 Obj. 4.3	A-12	Medium	New	July, 2007	County EMA, Mayor	Internal Funds	Attendance Records
Goal 5 Obj. 5.1	A-13	Medium	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records Materials
Goal 5 Obj. 5.2	A-14	Low	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records, Materials
Goal 5 Obj. 5.1,5.2, 5.3	A-15	Low	New	July, 2008	County EMA, Mayor	Internal Funds	Attendance Records, Materials

City of Kennett Action Plan

Goal/ Obj.	Action Plan Item	Priority (High/Med/ Low)	New, Revised or Ongoing	Est. Target Date	Probable Lead Organizer	Potential Funding	Effectiveness Measure
Goal 1 Obj. 1.1	A-1	High	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj. 1.2,1.3,	A-2	Medium	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj.1.3	A-3	High	New Revision	Continuing	County EMA, Mayor	Internal Funds	Plan Updates
Goal 2 Obj. 2.1,2.2	A-4	High	Revision	July, 2006	Floodplain Manager Mayor	Grant Funds	Flood Records
Goal 2 Obj. 2.2	A-5	High	Revision	July, 2006	Floodplain Manger	Internal Funds	Plan Updates
Goal 2 Obj. 2.3	A-6	N/A	Revision	Continuing	Floodplain Manager	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.1	A-7	High	Revision	Continuing	County EMA	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.2	A-8	High	New	Continuing	County EMA	Internal Funds	Attendance Records
Goal 3 Obj. 3.3	A-9	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.1, 4.2	A-10	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.2,4.3	A-11	Medium	New	July, 2007	County EMA	Internal Funds	Records Materials
Goal 4 Obj. 4.3	A-12	Medium	New	July, 2007	County EMA, Mayor	Internal Funds	Attendance Records
Goal 5 Obj. 5.1	A-13	Medium	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records Materials
Goal 5 Obj. 5.2	A-14	Low	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records, Materials
Goal 5 Obj. 5.1,5.2, 5.3	A-15	Low	New	July, 2008	County EMA, Mayor	Internal Funds	Attendance Records, Materials

City of Malden Action Plan

Goal/ Obj.	Action Plan Item	Priority (High/Med/ Low)	New, Revised or Ongoing	Est. Target Date	Probable Lead Organizer	Potential Funding	Effectiveness Measure
Goal 1 Obj. 1.1	A-1	High	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj. 1.2,1.3,	A-2	Medium	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj.1.3	A-3	High	New Revision	Continuing	County EMA, Mayor	Internal Funds	Plan Updates
Goal 2 Obj. 2.1,2.2	A-4	High	Revision	July, 2006	Floodplain Manager Mayor	Grant Funds	Flood Records
Goal 2 Obj. 2.2	A-5	High	Revision	July, 2006	Floodplain Manger	Internal Funds	Plan Updates
Goal 2 Obj. 2.3	A-6	N/A	Revision	Continuing	Floodplain Manager	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.1	A-7	High	Revision	Continuing	County EMA	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.2	A-8	High	New	Continuing	County EMA	Internal Funds	Attendance Records
Goal 3 Obj. 3.3	A-9	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.1, 4.2	A-10	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.2,4.3	A-11	Medium	New	July, 2007	County EMA	Internal Funds	Records Materials
Goal 4 Obj. 4.3	A-12	Medium	New	July, 2007	County EMA, Mayor	Internal Funds	Attendance Records
Goal 5 Obj. 5.1	A-13	Medium	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records Materials
Goal 5 Obj. 5.2	A-14	Low	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records, Materials
Goal 5 Obj. 5.1,5.2, 5.3	A-15	Low	New	July, 2008	County EMA, Mayor	Internal Funds	Attendance Records, Materials

City of Holcomb Action Plan

Goal/ Obj.	Action Plan Item	Priority (High/Med/ Low)	New, Revised or Ongoing	Est. Target Date	Probable Lead Organizer	Potential Funding	Effectiveness Measure
Goal 1 Obj. 1.1	A-1	High	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj. 1.2,1.3,	A-2	Medium	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj.1.3	A-3	High	New Revision	Continuing	County EMA, Mayor	Internal Funds	Plan Updates
Goal 2 Obj. 2.1,2.2	A-4	High	Revision	July, 2006	Floodplain Manager Mayor	Grant Funds	Flood Records
Goal 2 Obj. 2.2	A-5	High	Revision	July, 2006	Floodplain Manger	Internal Funds	Plan Updates
Goal 2 Obj. 2.3	A-6	N/A	Revision	Continuing	Floodplain Manager	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.1	A-7	High	Revision	Continuing	County EMA	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.2	A-8	High	New	Continuing	County EMA	Internal Funds	Attendance Records
Goal 3 Obj. 3.3	A-9	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.1, 4.2	A-10	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.2,4.3	A-11	Medium	New	July, 2007	County EMA	Internal Funds	Records Materials
Goal 4 Obj. 4.3	A-12	Medium	New	July, 2007	County EMA, Mayor	Internal Funds	Attendance Records
Goal 5 Obj. 5.1	A-13	Medium	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records Materials
Goal 5 Obj. 5.2	A-14	Low	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records, Materials
Goal 5 Obj. 5.1,5.2, 5.3	A-15	Low	New	July, 2008	County EMA, Mayor	Internal Funds	Attendance Records, Materials

City of Senath Action Plan

Goal/ Obj.	Action Plan Item	Priority (High/Med/ Low)	New, Revised or Ongoing	Est. Target Date	Probable Lead Organizer	Potential Funding	Effectiveness Measure
Goal 1 Obj. 1.1	A-1	High	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj. 1.2,1.3,	A-2	Medium	Ongoing	July, 2006	County Commission Mayor	Internal Funds	Plan Updates
Goal 1 Obj.1.3	A-3	High	New Revision	Continuing	County EMA, Mayor	Internal Funds	Plan Updates
Goal 2 Obj. 2.1,2.2	A-4	High	Revision	July, 2006	Floodplain Manager Mayor	Grant Funds	Flood Records
Goal 2 Obj. 2.2	A-5	High	Revision	July, 2006	Floodplain Manger	Internal Funds	Plan Updates
Goal 2 Obj. 2.3	A-6	N/A	Revision	Continuing	Floodplain Manager	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.1	A-7	High	Revision	Continuing	County EMA	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.2	A-8	High	New	Continuing	County EMA	Internal Funds	Attendance Records
Goal 3 Obj. 3.3	A-9	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.1, 4.2	A-10	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.2,4.3	A-11	Medium	New	July, 2007	County EMA	Internal Funds	Records Materials
Goal 4 Obj. 4.3	A-12	Medium	New	July, 2007	County EMA, Mayor	Internal Funds	Attendance Records
Goal 5 Obj. 5.1	A-13	Medium	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records Materials
Goal 5 Obj. 5.2	A-14	Low	Ongoing	Continuing	County EMA, Mayor	Internal Funds	Attendance Records, Materials
Goal 5 Obj. 5.1,5.2, 5.3	A-15	Low	New	July, 2008	County EMA, Mayor	Internal Funds	Attendance Records, Materials

Dunklin County Action Plan

Goal/ Obj.	Action Plan Item	Priority (High/Med/ Low)	New, Revised or Ongoing	Est. Target Date	Probable Lead Organizer	Potential Funding	Effectiveness Measure
Goal 1 Obj. 1.1	A-1	High	Ongoing	July, 2006	County Commission	Internal Funds	Plan Updates
Goal 1 Obj. 1.2,1.3,	A-2	Medium	Ongoing	July, 2006	County Commission	Internal Funds	Plan Updates
Goal 1 Obj.1.3	A-3	High	New Revision	Continuing	County EMA	Internal Funds	Plan Updates
Goal 2 Obj. 2.1,2.2	A-4	High	Revision	July, 2006	Floodplain Manager	Grant Funds	Flood Records
Goal 2 Obj. 2.2	A-5	High	Revision	July, 2006	Floodplain Manger	Internal Funds	Plan Updates
Goal 2 Obj. 2.3	A-6	N/A	Revision	Continuing	Floodplain Manager	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.1	A-7	High	Revision	Continuing	County EMA	Internal Funds	Revisions Adopted
Goal 3 Obj. 3.2	A-8	High	New	Continuing	County EMA	Internal Funds	Attendance Records
Goal 3 Obj. 3.3	A-9	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.1, 4.2	A-10	High	New	July, 2006	County EMA	Internal Funds	Published Materials
Goal 4 Obj. 4.2,4.3	A-11	Medium	New	July, 2007	County EMA	Internal Funds	Records Materials
Goal 4 Obj. 4.3	A-12	Medium	New	July, 2007	County EMA	Internal Funds	Attendance Records
Goal 5 Obj. 5.1	A-13	Medium	Ongoing	Continuing	County EMA	Internal Funds	Attendance Records Materials
Goal 5 Obj. 5.2	A-14	Low	Ongoing	Continuing	County EMA	Internal Funds	Attendance Records, Materials
Goal 5 Obj. 5.1,5.2, 5.3	A-15	Low	New	July, 2008	County EMA	Internal Funds	Attendance Records, Materials

Plan Monitoring, Evaluating and Updating

Elected officials are involved in the implementation and monitoring process. They may have oversight capabilities to provide time frames and support the work of the professional staff and volunteers in their mitigation efforts.

The planning team should monitor and document the progress of the recommended mitigation action throughout the year. Quarterly progress reports should be submitted to the planning team.

After the plan is approved, the four basic tasks required are:

1. Prepare to update the plan (every 5 years or after a disaster).
2. Examine your community for changes.
3. Examine the current plan.
4. Incorporate the necessary revisions into the plan.

The hazard mitigation plan is a dynamic document that needs revisions. It will be reviewed for its validity, adopted by the governing body, and implemented.

Five-Year SEMA/FEMA Approval

The Natural Hazard Mitigation Plan shall be submitted to the State Emergency Management Coordinator for review and comments. The SEMA coordinator shall submit the plan to the Federal Emergency Management Coordinator for review and approval. After the plan is approved, any future submittals will be by request from SEMA.

Law/Regulation Changes

The mitigation process will be amended to reflect any changes in laws or regulations after notification by appropriate officials.

SEMA review of any updates

SEMA shall be notified of any revisions and copies sent to the appropriate agency upon request.

Implement mitigation plan through existing programs

The mitigation measures shall be included in comprehensive plans where and when it is appropriate.

Adoption Resolution

(see appendix)

Public Involvement

Public involvement is necessary and will be monitored by the planning team. Provisions shall be made for public review of the plan and comments. This includes but is not limited to notice of meetings and/or workshops. Through the educational activities proposed, public participation will be part of the plan.