



2009 GREENE COUNTY MULTI-JURISDICTIONAL HAZARD MITIGATION PLAN



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Introduction

Purpose and Process of Development

The 2009 Greene County Multi-Jurisdictional All Hazard Mitigation Plan was prepared by the Local Mitigation Planning Taskforce. This task force included representatives from eight fire protection districts, eight public school districts, two higher education institutions, seven municipalities, and various representatives from the departments in both City of Springfield and Greene County government. The Local Mitigation Planning Task Force met under the terms set forth under a grant received from the Missouri State Emergency Management Agency (SEMA).

The Multi-Jurisdictional Hazard Mitigation Plan is the result of a collaborative effort between citizens, businesses, industry, institutions, and voluntary agencies throughout Greene County.

The Plan is a five-year blueprint for the future, aimed at making Greene County, and all the jurisdictions within, disaster resistant by reducing or eliminating long-term risk of loss of life and property from the full-range of natural disasters. This cycle of updates also identifies man-made hazards that currently, or could potentially, affect Greene County.

Assurance Statements of Compliance with FEMA

This plan meets the requirements of the Disaster Mitigation Act of 2000 (P.L. 106-390); Part 44 of the Code of Federal Regulations, Part 206; and State of Missouri Emergency Management Agency standards. An open public process was established to provide multiple opportunities for all sectors of the community to become involved and provide input during the drafting stage of the planning process.

Basis for Planning Authority

The basis for authority to create a hazard mitigation plan lies in Section 322 of the Robert T. Stafford Disaster Relief and Emergency Act, 42 U.S.C. 5165. This act was enacted under Section 104 and is the legal basis for FEMA's Interim Final Rule for 44 CFR Parts 201 and 206, published in the Federal Register on February 26, 2002.

Adoption by Local Governing Bodies

Participation of local jurisdictions is critical to successful mitigation implementation. The Springfield-Greene County Office of Emergency Management has collaborated with local school districts, fire protection districts and municipalities to assure adoption and implementation of the 2009 Multi-Jurisdictional Hazard Mitigation Plan will occur after the plan has been approved by the appropriate state and federal agencies.

Purpose and Organization of the Plan

In the past, emergency management has focused primarily on responding after a disaster occurs. This was financially inefficient and put communities at risk by ignoring a proactive approach to mitigate the effects of disasters. This proactive approach is found in the mitigation phase, and the hazard mitigation plan is a blueprint for mitigation actions in the community.

The 2009 Multi-Jurisdictional Hazard Mitigation Plan encouraged involvement and participation from more organizations and entities than the 2004 Hazard Mitigation Plan. Now, any

jurisdiction wanting to take steps to implement projects to make their own communities more disaster resistant were obligated to participate in the planning process or risk losing access to mitigation funding. The table below identifies the jurisdictions that participated and are included in the 2009 Multi-Jurisdictional Hazard Mitigation Plan.

Table 1A.1 Fire Protection Districts in the 2009 Multi-Jurisdictional Hazard Mitigation Plan.

Greene County Fire Protection Districts			
Ash Grove Fire Protection District	Bois D’Arc Fire Protection District	Ebenezer Fire Protection District	Fair Grove Fire Protection District
Logan-Rogersville Fire Protection District	Pleasant View Fire Protection District	Strafford Fire Protection District	Willard Fire Protection District

Table 1A.2 Public School Districts in the 2009 Multi-Jurisdictional Hazard Mitigation Plan.

Greene County Public School Districts			
Ash Grove School District	Fair Grove School District	Logan-Rogersville School District	Republic School District
Springfield School District	Strafford School District	Walnut Grove School District	Willard School District

Table 1A.3 Incorporated Communities in the 2009 Multi-Jurisdictional Hazard Mitigation Plan.

Municipalities			
City of Ash Grove	City of Battlefield	City of Fair Grove	City of Republic
City of Springfield	City of Strafford	City of Willard	Greene County

Table 1A.4 Higher Education Institutions in the 2009 Multi-Jurisdictional Hazard Mitigation Plan.

Higher Education Institutions	
Ozarks Technical Community College	Missouri State University

While the plan covers unincorporated areas of Greene County, it does not cover the jurisdictions that did not participate in the planning process. Those jurisdictions are:

- Battlefield Fire Protection District;
- Brookline Fire Protection District;
- Walnut Grove Fire Protection District;
- West Republic Fire Protection District; and
- City of Walnut Grove.

Additionally, the City of Rogersville is part of three counties: Christian, Greene and Webster. Due to their unique geographical situation, the City elected to participate in the Hazard Mitigation Plan with Webster County while the Logan-Rogersville School District and the Logan-Rogersville Fire District, as mentioned above, elected to participate in the Greene County Plan.

The jurisdictions listed in the tables above participated in all steps of the planning process. Each Jurisdiction was required to: send a representative to multiple mitigation workshops and planning meetings, provide needed mitigation planning information to the Office of Emergency Management and to attend the community forums. If, due to scheduling reasons, a representative was not able to attend a planning meeting, they were encouraged to schedule a

one-on-one meeting with OEM staff, telephone, or e-mail to obtain the information missed at the meeting. If a representative was not able to attend the Community Forum in their area, they were required to provide the OEM with their list of projects and goals so the OEM could speak on their behalf. All of the Jurisdictions listed in the Mitigation Plan participated in the planning process to the standards set by the Springfield-Greene County Office of Emergency Management. Jurisdictions that did not participate in the planning process were not included in the plan. The following spreadsheet was used to track the participation of the Jurisdictions throughout the planning process.

Table 1A.5 Jurisdiction Participation in the Hazard Mitigation Planning Process

Jurisdiction	Mitigation Planning	Community Profile	Vulnerability Assessment	Capability Assessment	Projects and Goals	Community Forums	Advertised	Adequate Participation
Greene County	Continuing	Complete	Complete	Complete	Complete	Yes	Yes	Yes
Fire Districts	Mitigation Planning	Community Profile	Vulnerability Assessment	Capability Assessment	Projects and Goals	Community Forums	Advertised	Adequate Participation
Ash Grove	New	Complete	Complete	Complete	Complete	Yes	No	Yes
Battlefield	No Participation	No	No	No	No	No	No	No
Bois D'Arc	New	Complete	Complete	Complete	Complete	Yes	No	Yes
Brookline	No Participation	No	No	No	No	No	No	No
Ebenezer	New	Complete	Complete	Complete	Complete	No	No	Yes
Fair Grove	New	Complete	Complete	Complete	Complete	Yes	Yes	Yes
Logan-Rogersville	New	Complete	Complete	Complete	Complete	Yes	No	Yes
Pleasant View	New	Complete	Complete	Complete	Complete	Yes	Yes	Yes
Strafford	New	Complete	Complete	Complete	Complete	Yes	Yes	Yes
Walnut Grove	No Participation	No	No	No	No	No	No	No
West Republic	No Participation	No	No	No	No	No	No	No
Willard	Continuing	Complete	Complete	Complete	Complete	No	No	
School Districts	Mitigation Planning	Community Profile	Vulnerability Assessment	Capability Assessment	Projects and Goals	Community Forums	Advertised	Adequate Participation
Ash Grove	New	Complete	Complete	Complete	Complete	No	No	Yes
Fair Grove	New	Complete	Complete	Complete	Complete	No	No	Yes
Logan-Rogersville	New	Complete	Complete	Complete	Complete	Yes	Yes	Yes
Republic	New	Complete	Complete	Complete	Complete	Yes	Yes	Yes
Springfield	New	Complete	Complete	Complete	Complete	Yes	Yes	Yes
Strafford	New	Complete	Complete	Complete	Complete	No	No	Yes
Walnut Grove	New	Complete	Complete	Complete	Complete	Yes	No	Yes
Willard	Continuing	Complete	Complete	Complete	Complete	Yes	No	Yes
Higher Education	Mitigation Planning	Community Profile	Vulnerability Assessment	Capability Assessment	Projects and Goals	Community Forums	Advertised	Adequate Participation
Missouri State	New	Complete	Complete	Complete	Complete	Yes	No	Yes
OTC	New	Complete	Complete	Complete	Complete	Yes	Yes	Yes
Municipalities	Mitigation Planning	Community Profile	Vulnerability Assessment	Capability Assessment	Projects and Goals	Community Forums	Advertised	Adequate Participation
Ash Grove	New	Complete	Complete	Complete	Complete	No	No	Yes
Battlefield	New	Complete	Complete	Complete	Complete	Yes	No	Yes
Fair Grove	New	Complete	Complete	Complete	Complete	Yes	Yes	Yes
Republic	New	Complete	Complete	Complete	Complete	Yes	Yes	Yes
Springfield	Continuing	Complete	Complete	Complete	Complete	Yes	Yes	Yes
Strafford	New	Complete	Complete	Complete	Complete	Yes	Yes	Yes
Walnut Grove	No Participation	No	No	No	No	No	No	No
Willard	Continuing	Complete	Complete	Complete	Complete	Yes	Yes	Yes

Planning Process

Identifying Hazards

The Springfield-Greene County Office of Emergency Management completed the Hazard Analysis and Risk Assessment in September 2009. Seventeen hazards were identified that could potentially harm various jurisdictions in Greene County. These hazards were identified based on historical records, national data sources, existing plans, reports and discussions with local, regional, state and federal sources. The 2009 Greene County Multi-Jurisdictional All Hazard Mitigation Plan includes a man-made hazard assessment that increases the total number of identified hazards from nine in the previous plan, which were all natural, to 17, which include all natural and man-made hazards.

The hazards have been profiled based on their severity of impact, frequency of occurrence, seasonal patterns, warning time, cascading potential and existing warning systems. An inventory of population, critical building and essential facilities, infrastructure, hazardous materials facilities and commercial facilities at potential risk was conducted for each of the mapped sectors with an identifiable hazard.

Assess Risks

The characteristics and potential consequences of each hazard were assessed to determine the effects of each hazard on each jurisdiction's assets. The risk assessment identifies the potential loss associated with a hazard as opposed to a vulnerability assessment which identifies what is capable of being affected by the consequences of a hazard. For more information regarding how the hazards and vulnerabilities were assessed, please see Section 3 and Section 4.

Develop Mitigation Strategies

Mitigation goals and objectives have been formulated to reduce or eliminate the long-term risk to human life and property. An action has been developed identifying proposed actions, estimated costs and benefits, the responsible organizations/agencies, implementation schedule, related objectives to which the actions relate, priority and potential funding sources.

Members of the Local Mitigation Planning Taskforce provided individual goals that represented the needs of their jurisdictions to be implemented before the next cycle of updates for Hazard Mitigation Plans.

Community Participation

All aspects of the Hazard Mitigation planning process were open to the public. Press Releases were sent out for the meetings (see distribution list below). The Springfield-Greene County Office of Emergency Management advertised and hosted workshops explaining each step of the planning process. These workshops were very informative; explaining mitigation, the planning process, information needed from the participating jurisdictions, and allowed citizens and committee members to ask questions and make comments. The Director of the Springfield-Greene County Office of Emergency Management also did a presentation on the Mitigation planning process to the Springfield City Council and the Greene County Commissioners, both meetings were also open to the public and advertised on the city and county websites. All eight

of the public meetings were open to the public and advertised according to the Sunshine Law (RSMO §610.010 to RSMO §610.200)

Members of the Local Mitigation Task Force also invited community members to participate in the planning process through community forums. After each jurisdiction completed a community profile, vulnerability assessment, capability assessment and identified mitigation projects and goals, the Springfield-Greene County Office of Emergency Management set-up two community forums in which members of the public could learn more about mitigation and ask their jurisdiction representatives specific questions regarding their hazards and ways to make their specific areas more disaster resistant. Documents regarding the Mitigation Workshops and Community Forums, including advertisements and lists of attendees are in the following section of the Introduction.

Resolution Approving the Hazard Mitigation Plan

Each jurisdiction will be required to take the Hazard Mitigation Plan to their appropriate governing body. All jurisdictions are aware of this requirement, and participated in a review of the drafted plan in September of 2009 prior to submitting the plan for SEMA review in October of 2009. All jurisdictions plan to formally adopt the plan after the plan has been approved by the appropriate state and federal agencies. Once that occurs, the resolutions and proof of plan adoption will be included in the 2009 Greene County Multi-Jurisdictional Hazard Mitigation Plan under the Appendices.

Mitigation Workshops and Community Forums

The Springfield-Greene County Office of Emergency Management hosted four Mitigation Planning Workshops, each focusing on a different aspect of Mitigation planning. The Community Profile Workshop was held on March 10, 2009 at 10:00, the Vulnerabilities Workshop was held on April 1, 2009, the Capabilities Workshop was held on May 18, 2009, and the Mitigation Projects and Goals and Community Forum Workshop were held on June 12, 2009. All of the workshops were open to the public and all members of the Mitigation Planning Committee were encouraged to attend all of them. If members were not able to attend a workshop, they were encouraged to request a one-on-one meeting so they could still gather the information. The workshops also allowed members of the Mitigation Planning Committee and private citizens to ask questions specific to their jurisdiction. The workshops were very well attended and lists of each meetings attendees can be found below in Table 1C.2. A list of the Springfield-Greene County Office of Emergency Management staff members who participated in the planning process is also included in Table 1C.3.

The Springfield-Greene County Office of Emergency Management also hosted two Community Forums. These Community Forums were designed to explain the mitigation process and also to specifically address the projects and goals of each Jurisdiction. If a jurisdiction was unable to attend a Community Forum, due to scheduling conflicts, they were asked to provide the OEM with a list of their projects and goals, so the OEM could adequately speak on their behalf. Attendees of the forums were able to ask questions of OEM staff and also the representatives of their jurisdiction. One of the forums was held on Thursday, July 23, 2009, at 6:00 p.m. at the Pleasant View Elementary School. The second was held on Friday, July 24, 2009, at 10:00 a.m. at the Community Room located at Fire Station #6. Locations were strategically identified to encourage participation from differing geographical areas across the county.

In addition to the four public Mitigation Planning Workshops and the two public Community Forums, the Mitigation Planning Process was also announced at a two City Council meetings and at a County Commission Meeting, both of which are also public meetings. All eight meetings were open to the public and advertised according to the Sunshine Law (RSMO §610.010 to RSMO §610.200).

As part of the advertising process, the Greene County Public Information Officer drafted and distributed a press release to local media outlets. This press release was picked up and discussed on a local radio station. Further, the CBS affiliate, KOLR 10, came to the Thursday evening community forum, interviewed the Springfield - Greene County Emergency Management Director, Ryan Nicholls, for a brief story on the evening news. Please see Table 1C.1 for a distribution list for all Greene County Press Releases.

Many jurisdictions used information from the press release to post information regarding the forums on their websites including but not limited to the City of Fair Grove, Fair Grove Fire, Springfield Public Schools, Logan-Rogersville Schools and the Springfield-Greene County Office of Emergency Management. Other jurisdictions (without website capability) posted the press release in public areas to encourage attendance. In total, 36 people attended the community forums. Please see Table 1C.2 for a list of all meeting attendees.

The image below is a copy of the press release distributed by the Greene County Public Information Officer.

Image IC.1 Copy of the Press Release Distributed by the Greene County PIO.

NEWS RELEASE: July 21, 2009

Emergency Management seeks public input on disaster planning

The Springfield-Greene County Office of Emergency Management is seeking public input on strengthening Greene County against tornados, chemical spills and other community disasters.

The office is holding two community forums this week to discuss potential hazards and to gather input on possible disaster mitigation projects, such as storm shelters or floodplain improvements, which may qualify for Federal Emergency Management Agency (FEMA) funding. The forums are:

- Thursday, July 23, 6 p.m., Pleasant View School, 2210 E. State Highway AA, north of Springfield.
- Friday, July 24, 10 a.m., Springfield Fire Station #6, 2620 W. Battlefield Road, Springfield.

Ryan Nicholls, Director of the Springfield-Greene County Office of Emergency Management, said the community forums are part of the county's disaster mitigation plan, updated every five years.

Representatives from municipalities, school districts and fire protection districts will participate in the forums to help identify and prioritize possible projects. Nicholls encourages members of the public to attend as well, to share their concerns and to learn about how to protect their homes and property from disasters.

"If we can help prioritize projects while educating property owners on hazards they may face, it's a win-win," said Nicholls.

Each meeting will include a short presentation and an opportunity for discussion.

For more information, call Ryan Nicholls, Director of the Springfield-Greene County Office of Emergency Management, at 417-869-6040.

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Greene County Public Information Office Contacts

All news releases, City Council Meetings, Commission calendars, Commission session agendas and media advisories are released via e-mail to the following contacts.

Table 1C.1 PIO Contacts

Greene County PIO Contacts
Ash Grove Commonwealth
Clear Channel Communications
Community Free Press
88.3 FM The Wind
417 Magazine
Go! Magazine
Journal Broadcast Group
KGBX FM
KOLR TV
KOSP FM
KRZK FM
KSFX TV
KSGF FM
KSMU FM
KSPR TV
KTTS AM/FM
KWFC FM
KYTV TV
95.5 FM Alice
NixaXPress
Republic Monitor
Springfield Business Journal
Springfield News-Leader
South County Mail
Various Freelance Journalists
Willard Cross-Country Times
City of Ash Grove
City of Battlefield
City of Springfield
City of Willard
City Utilities of Springfield
Congressman Roy Blunt
Drury University
Greater Ozarks Chapter American Red Cross
Greene County Officeholders
Greene County Department Heads
Various Greene County Staff
Missouri Department of Transportation
Missouri State University
MU Extension Office
Springfield Area Chamber of Commerce
Springfield Convention Visitors Bureau
Springfield Metropolitan Bar Association

Table 1C.2 Participation Records

Community Profile Workshop, March 10, 2009		
Name	Agency / Jurisdiction	City / County / State
Adams, Candy	SEMA	Missouri
Allen, Michael	GIS	Greene County
Babcock, Frank	City	Ash Grove
Barnes, Kevin	Flood Plain Management	Greene County
Belote, Bob	Parks Department	Springfield
Bishop, David	School District	Springfield
Buckner, Carl	City / Fire District	Fair Grove
Burnett, Lisa	School District	Fair Grove
Clinton, Dennis	Fire District	Logan-Rogersville
Coiner, Jeff	Information Services	Springfield
Cornman, Aaron	School District	Walnut Grove
Coulter, Chris	Resource Management	Greene County
Cox, Debbie	City	Ash Grove
Deck, David	Fire District	Willard
Dorrell, Scott	City	Rogersville
Edson, Nancy	City	Rogersville
Fonner, Mike	GIS	Springfield
Gano, Jonathan	Public Works	Springfield
Gordon, Donna	Fire District	Bois D'Arc
Hartman, Ron	Police	Springfield
Heatherly, Nick	Building Development	Springfield
Helvey, Barb	City	Strafford
Hess, Rick	City	Battlefield
Hogue, Gary	School District	Logan-Rogersville
Holland, Vance	Police	Springfield
Hollandworth, Lynn	Emergency Management	Republic
Johnson, Dave	Missouri State University	Other
Lannan, James	Fire District	Battlefield
Laughlin, Paul	City	Rogersville
Locke, Eldon	City	Walnut Grove
Lowery, Steven	Missouri State University	Other
McConnell, Larry	Fire District	Brookline
Monning, Anthony	Fire District	Ash Grove
Morris, Kent	Planning	Greene County
Osborn, Fred	Fire District	Strafford
Park, Miles	Parks Department	Springfield
Pennington, David	Fire District	Springfield
Porter, Greg	School District	Fair Grove
Reasoner, Ken	Springfield City Utilities	Other
Rognstad, Ralph	Planning	Springfield
Rothrock, Pete	OTC	Other
Royal, Janelle	School District	Willard
Runnels, Steve	National Weather Service	Other
Schiman, Jerry	Fire District	Strafford
Schroeder, Shawn	Springfield-Branson Airport	Other
Smith, Dan	Highway Department	Greene County
Smith, Gary	GIS	Springfield
Snaveley, J. Gary	Missouri State University	Other

Community Profile Workshop, March 10, 2009 (Continued)		
Name	Agency / Jurisdiction	City / County / State
Spaulding, Kevin	Sheriff's Department	Greene County
Weaver, Michael	School District	Strafford
Willmon, Jeremy	Fire District	Ash Grove
Winters, Stacy	City / Fire District	Willard
Vulnerabilities Workshop, April 1, 2009		
Name	Agency / Jurisdiction	City / County / State
Helvey, Barb	City	Strafford
Reasoner, Ken	Springfield City Utilities	Other
Allen, Michael	GIS	Greene County
Babcock, Frank	City	Ash Grove
Bishop, David	School District	Springfield
Clinton, Dennis	Fire District	Logan-Rogersville
Cox, Debbie	City	Ash Grove
Dave Manary	Planning & Zoning	Greene County
Hess, Rick	City	Battlefield
Hogue, Gary	School District	Logan-Rogersville
Hollandworth, Lynn	Emergency Management	Republic
Jim Norgren	Housing Development	Greene County
Johnson, Dave	Missouri State University	Other
Lowery, Steven	Missouri State University	Other
Michael Kepley	City Utilities	Springfield
Morris, Kent	Planning	Greene County
Porter, Greg	School District	Fair Grove
Rothrock, Pete	OTC	Other
Royal, Janelle	School District	Willard
Snavely, J. Gary	Missouri State University	Other
Weaver, Michael	School District	Strafford
Winters, Stacy	City / Fire District	Willard
Capabilities Workshop, April 1, 2009		
Name	Agency / Jurisdiction	City / County / State
Babcock, Frank	City	Ash Grove
Bishop, David	School District	Springfield
Buckner, Carl	City / Fire District	Fair Grove
Helvey, Barb	City	Strafford
Hess, Rick	City	Battlefield
Mark Hall	School District	Logan-Rogersville
Lowery, Steven	Missouri State University	Other
Osbourn, Fred	Fire District	Strafford
Porter, Greg	School District	Fair Grove
Reasoner, Ken	Springfield City Utilities	Other
Rothrock, Pete	OTC	Other
Royal, Janelle	School District	Willard
Schiman, Jerry	Fire District	Strafford
Schroeder, Shawn	Springfield-Branson Airport	Other
Talbert, Rob	Fire District	Logan-Rogersville
Weaver, Michael	School District	Strafford
Mitigation Projects and Goals Community Forum Workshop, June 12, 2009		
Name	Agency / Jurisdiction	City / County / State
Bishop, David	School District	Springfield

Mitigation Projects and Goals Community Forum Workshop, June 12, 2009 (Continued)		
Buckner, Carl	City / Fire District	Fair Grove
Combs, Larry	MSU	Springfield
Cox, Debbie	City	Ash Grove
Helvey, Barb	City	Strafford
Hess, Rick	City	Battlefield
Hollandworth, Lynn	Emergency Management	Republic
Kepley, Michael	City Utilities	Springfield
Morris, Kent	Planning	Greene County
Osbourn, Fred	Fire District	Strafford
Porter, Greg	School District	Fair Grove
Rothrock, Pete	OTC	Other
Royal, Janelle	School District	Willard
Schiman, Jerry	Fire District	Strafford
Smith, Gary	GIS	Springfield
Talbur, Rob	Fire District	Logan-Rogersville
Winters, Stacy	City / Fire District	Willard
Community Forum, July 23, 2009		
Name	Organization	
Bucker, Carl	Fair Grove Fire	
Covey, Chip	Pleasant View Fire	
Crocker, Carly	Springfield-Greene County OEM	
Daigle, Alicia	Strafford Fire	
Doran, Cheryl	Strafford Fire	
Gilbert, Mike	Fair Grove School District	
Gillespie, Sarah	Springfield-Greene County OEM	
Goodman, Mike	Pleasant View Fire	
Gordon, Donna	Bois D'Arc Fire	
Harmon, Ken	Fair Grove Park Board/School Board	
Helvey, Barb	City of Strafford	
Mack, Robert	Pleasant View Fire	
Nicholls, Ryan	Springfield-Greene County OEM	
Porter, Greg	Fair Grove School Police	
Randles, Shawn	Logan-Rogersville Schools	
Rothrock, Pete	OTC	
Schiman, Jerome D.	Strafford Fire	
Shelburn, Bill	SPS R-12	
Community Forum, July 24, 2009		
Name	Organization	
Crocker, Carly	Springfield-Greene County OEM	
Deetz, Dave	JMark	
Gillespie, Sarah	Springfield-Greene County OEM	
Hess, Rick	City of Battlefield	
Hollandworth, Lynn	OEM City of Republic	
Lowery, Steven	MSU Public Safety	
Manary, Dave	Greene County Planning and Zoning	
Meeds, Debi	American Red Cross	
Musrion, Casey	JMark	
Nicholls, Ryan	Springfield-Greene County OEM	
Paschall, Brian	Greene County C.E.R.T. District #4	
Rothrock, Pete	OTC	

Community Forum, July 24, 2009 (Continued)	
Royal, Janell	Willard R-II Schools
Shellburn, Bill	SPS R-12
Snavely, J. Gary	MSU
Talbert, Rob	Logan-Rogersville Fire Department
Vicat, Tom	City of Strafford
Winters, Stacy	Willard EMD

Table 1C.3 OEM Staff Participation

Mitigation Participation, Springfield-Greene County Office of Emergency Management	
Name	Title
Ryan Nicholls	Director
Larry Woods	Assistant Director
Shea Lane	Homeland Security and Weapons of Mass Destruction Specialist
Ty Davisson	Exercise and Training Specialist
Sarah Gillespie	Emergency Planning Specialist
Carol Kidwell	Administrative Services Coordinator
Carly Crocker	Main Mitigation Planning Contractor
Warren Robinson	Assistant Mitigation Planning Contractor

All members of the OEM staff assisted in the Mitigation planning process. All research and preliminary data was gathered by the OEM Planning Specialist and the Main Mitigation Planning Contractor. Various members of the OEM staff assisted in the analyzing of said data and the decision making within the mitigation planning process including: The OEM Director, the OEM Assistant Director, The OEM Planning Specialist, and the Main Mitigation Planning Contractor. In addition, the OEM Homeland Security and Weapons of Mass Destruction Specialist assisted with the Man-Made Hazard Portions of the Plan. The Mitigation Planning Committee consisted of representatives from each jurisdiction. Each of the jurisdictions was responsible for providing specific information about their jurisdiction to OEM. This information was then incorporated into the County wide plan by the Main Mitigation Planning Contractor, the Assistant Mitigation Planning Contractor and the OEM Planning Specialist. All of the Mitigation Planning Workshops and the Community Forums were planned and organized by the Mitigation Planning Contractor and the OEM Planning Specialist. The OEM Director, OEM Assistant Director, OEM Planning Specialist and the Main Mitigation Contractor each facilitated the public meetings. The OEM Administrative Services Coordinator and the OEM Director handled all of the Mitigation Grant issues, and the rest of the office staff assisted with other administrative and planning duties as needed.

Plan Maintenance

Ensure Implementation through Adoption

As stated in the Introduction, each jurisdiction will adopt the 2009 Greene County Multi-Jurisdictional Hazard Mitigation Plan. Once adopted, the implementation process will include coordination among city and county departments, and outside partners, (like engineering firms) as they become relevant. Each jurisdiction of the Local Mitigation Planning Taskforce (LMPT) will actively take part in implementing the plan, as each jurisdiction has mitigation projects, goals and actions they would like to complete as soon as possible to increase the safety of their respective communities.

Public Involvement

As part of any adopted resolution or formal action, most jurisdictions, including the City of Springfield and Greene County, have a public review process. The public is given notice in accordance with standard such as the Missouri Sunshine Law. Comments are accepted in accordance with the governing body's established rules and procedures. Additionally, the LMPT contains members of the public and each member does their part to keep their jurisdictions informed of any upcoming events. Technology is used as a pervasive mode of communication to keep the public informed of any upcoming events or pertinent information. Websites are the most frequently and effectively used medium of communication for jurisdictions when local television and radio media coverage is not available.

Monitoring, Evaluating and Updating the Plan

Every five years, the Springfield-Greene County Office of Emergency Management reviews the plan and includes any needed updates (this process will occur informally on an annual basis with the plan rewrite every five years in conjunction with the Emergency Operations Plan rewrite). The updated plan will be submitted to SEMA and FEMA for approval. Copies of the signed adoption resolutions will be included in the Appendices as they arrive.

In addition, the plan will be reviewed for any necessary updates following any major disaster that may occur in Greene County.

Integration into Government Planning

The 2004 Greene County Mitigation was incorporated into local government planning and strategy through Emergency Operations Planning by incorporating discussions regarding identified hazards and steps the community can take to mitigate those hazards. From small municipalities to the county-wide EOP, the mitigation plan is a critical component used to prepare the community for disasters.

LOCAL MITIGATION PLANNING TASK FORCE (LMPT) PLANNING CYLCE

Step 1	The Springfield-Greene County Office of Emergency Management (OEM) will notify taskforce members of upcoming bi-annual meeting.
Step 2	OEM prepares meeting agenda and distributes it a week in advance of the meeting.
Step 3	At each LMPT meeting, a review of the mitigation process and an evaluation of the mitigation criteria will be discussed to determine if they still meet the needs of the community or if modifications or additions are needed due to changing conditions over the period of time since the last meeting. Data needs will be reviewed, data sources identified and responsibility for collecting information and data are assigned to members.
Step 4	A draft of the Local Mitigation Strategy Plan of annual mitigation activities will be prepared and ready for review by the committee by the first meeting annually. The plan may include the following criteria:
	A. Changes have occurred in the community and government processes that are hazard-related since the last LMPT review:
	1. Community changes include growth and development in hazard vulnerable areas; impact of actions resulting from growth that adversely affect natural resources in vulnerable areas; demographic changes; new hazards; changes in community economic structure; and special needs population changes.
	2. Government process changes include new or changing federal and state laws, policies and regulations; changes in funding sources or requirements; changes in priorities for implementation; changes in government structure; and shifts in responsibility and mitigation committee resources.
	B. Progress in implementing LMPT initiatives and projects – the LMPT initiatives and projects as compared with actual results at the date of the report.
	C. Effectiveness of the previously implemented initiatives and projects.
	D. Evaluation of the unanticipated problems and opportunities that may have occurred between the date of adoption and the date of the report.
	E. Evaluation of the hazard-related public policies, initiatives and projects.
	F. Review and discussion of the effectiveness of public and private sector coordination and cooperation.
Step 5	OEM coordinates and organizes modifications and comments resulting from the first meeting.
Step 6	At the second meeting annually, the draft plan-update findings and conclusions will be presented for comment. Comments will be addressed by the LMPT and included in the final plan update for the coming year. OEM finalizes the updated plan (LMPT members will receive a copy) that will be presented at each jurisdiction for review and adoption.
Step 7	On the fifth year of a five-year cycle, the Hazard Mitigation Plan will be re-written from the beginning, which will incorporate the latest mitigation strategies.

DECLARED EMERGENCY ASSESSMENT PROCESS

Step 1	Within six months following a declared disaster, the OEM will initiate a post-disaster review and assessment. Each member of the LMPT will be notified that the assessment has commenced.
Step 2	The OEM will draft a Technical Report. The purpose of the report is to document the facts of the event, and assess whether the LMPT had effectively addressed the hazard. The report will contain the following information:
	A. Identify whether the hazard creating the declared emergency had been addressed by the LMPT.
	B. Prepare documentation of the event, magnitude, extent of damages, specific damages sustained (e.g. public infrastructure [potable water or wastewater], private infrastructure [utilities or economies]).
	C. Discuss impacts to private sector such as obstacles to recovery, utilization of local vendors, deficits in types of products needed, accessibility of vendor suppliers, demand for space for temporary relocation, local business contingency plans, etc.
	D. Analyze effectiveness of coordination among institutional entities (e.g. local government, state government, utilities, American Red Cross, etc.)
	E. Evaluate the accuracy of the hazard vulnerability and risk assessment in LMPT relative to actual events.
	F. Focus on LMPT initiatives and projects that have been implemented to mitigate impacts of the type of hazard creating the emergency event and evaluate effectiveness.
	G. Discuss unanticipated impacts and identify potential mitigation measures.
Step 3	OEM schedules a meeting of the LMPT and distributes copies of the draft Technical Report prior to meeting.
Step 4	At the meeting, committee members discuss report findings, formulate conclusions and make recommendations to determine whether the Hazard Mitigation Plan should be amended.
Step 5	If the conclusion is that no modifications are needed for the mitigation strategy, the technical report is approved and transmitted to the appropriate entities.
Step 6	If it is determined that the Hazard Mitigation Plan should be amended, the OEM prepares a draft amendment for the plan that should include:
	A. Information from the technical report.
	B. Justification needed to amend the Hazard Mitigation Plan.
	C. A review and analysis of existing mitigation initiatives and projects in light of new initiatives and projects recommended by the LMPT.
	D. Reprioritized initiatives and projects in the Hazard Mitigation Plan.
Step 7	LMPT reviews and comments on the draft of the amended Hazard Mitigation Plan.
Step 8	OEM, in consultation with the LMPT, establishes appropriate methods of soliciting public input. The OEM is responsible for public notices, advertising, etc. If a public meeting is held, all LMPT members will be informed and are requested to attend.
Step 9	OEM modifies the drafted plan based upon the outcome of the LMPT review and public meetings. This modified draft will be submitted for comment and approval by the LMPT.
Step 10	OEM finalizes the amended plan and submits it to the appropriate entities.

Research Process

Each section of the 2004 Greene County Hazard Mitigation Plan was reviewed and updated for the 2009 Greene County Multi-Jurisdictional Hazard Mitigation Plan. The initial plan included sources for each section. As part of the updating process, each source was examined and most sources had additional or new information that was incorporated into the plan. For example, updates on existing companies and employment figures were obtained from the *Springfield Business Journal*.

When applicable, a resource used in the planning process was identified. Typically, this is found in the last cell of a table or at the end of a paragraph. It should be noted however, that all jurisdictions contributed valuable information for the plan. While that information is valid and has enhanced the plan, not all jurisdictions were familiar or understood the need for proper citation. Moreover, some of the information incorporated was based upon personal knowledge (e.g. identifying how many fire houses are within a fire jurisdiction).

Additionally, several organizations were consulted for their expertise and were asked to review documents pertaining to their profession. Most organizations not only reviewed documents, but provided pertinent data for this plan. For example:

- A geologist from the Missouri Department of Natural Resources reviewed the Earthquake Hazard Profile.
- A meteorologist from the National Weather Service office in Springfield reviewed the natural hazard profiles and provided data to incorporate into the profiles.
- The Springfield-Greene County Health Department provided data regarding heat exposures and heat related illnesses.
- The City of Springfield Information Systems Department provided data for the Technological Hazard Profile.

The Springfield-Greene County Office of Emergency Management sent applicable sections of the plan to any and all experts available to ensure the accuracy of the research conducted and to assess any gaps in the researching process.

Listed below is a more detailed account for the update and research process of each section. Additional information can be found in the Introductory Briefs at the beginning of each section.

Table 1E.1 Review and Update Process for Each Section of the 2009 Greene County Hazard Mitigation Plan.

Plan Section	Update Review and Analysis
Section 1.A – 1.E Introduction	<ul style="list-style-type: none"> • Updated list of planning participants; • Included new information regarding Community Forums; • Updated document review process; • Discussed how the 2004 Hazard Mitigation Plan was integrated in other planning efforts in Greene County; and • Updated Plan Maintenance Procedures.
Section 2.A – 2.F Community Profile	<ul style="list-style-type: none"> • Reviewed sources and information from prior plan and obtained updated information; and

	<ul style="list-style-type: none"> • Each jurisdiction submitted their own Community Profile that provided the most current information for their area.
<p>Section 3.1 – 3.21; 3.A-3.Q Hazard Analysis</p>	<ul style="list-style-type: none"> • Included events for each hazard that occurred from 2004 to 2009; • Planning Committee reviewed the Statements of Future Probable Severity and Probable Risk and updated the ratings; • Local National Weather Service Office reviewed all Natural Hazard Profiles for accuracy in data and approval of ratings; • Springfield – Greene County Homeland Security Specialist reviewed the Man-Made Hazard Profiles for accuracy and approval of ratings; • Consulted with the Missouri Department of Natural Resources to approve the Earthquake Hazard Profile; and • Included new profiles for Man-Made Hazards.
<p>Section 4.A – 4.G Vulnerability Assessment</p>	<ul style="list-style-type: none"> • Updated list of Critical Facilities; • Each jurisdiction submitted the value of their facilities and equipment; • Each jurisdiction reviewed the vulnerability percentages for each hazard and approved of them to be used; • Modified percentages for geographic specific hazards: Dam Failure, Flooding and Land Subsidence; • Updated Natural Hazard Vulnerability Percentages based upon new data from natural hazard events from 2004 to 2009; and • Included new vulnerability percentages to reflect the addition of Man-Made Hazards.
<p>Section 5.A – 5. G Capability Assessment</p>	<ul style="list-style-type: none"> • Each jurisdiction assessed their capabilities and submitted them for the updated plan; and • City of Springfield/Greene County capabilities were reviewed and updated by the planning committee.
<p>Section 6.A – 6.K Mitigation Projects and Goals</p>	<ul style="list-style-type: none"> • Assessed the progress of each mitigation goal, project and action from the last plan and why the project was not completed, if applicable; • Each jurisdiction provided projects and goals that were specific to their jurisdiction to meet the needs of their community; • Discussed and identified future funding sources; and • Ensured the status of each new and old goal, project and action was addressed and included in the plan.