

MULTI-HAZARD MITIGATION PLAN

ST. CLAIR COUNTY, ILLINOIS



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St. Clair County
Emergency Management Agency



Southwestern Illinois Planning Commission

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Multi-Hazard Mitigation Plan St. Clair County, Illinois

Adoption Date: -- _____ --

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St. Clair County Multi-Hazard Mitigation Plan

Section 1 - Public Planning Process

1.1 Narrative Description

Hazard Mitigation is defined as any sustained action to reduce or eliminate long-term risk to human life and property from hazards. The Federal Emergency Management Agency (FEMA) has made reducing hazards one of its primary goals. Hazard Mitigation Planning and the subsequent implementation of the projects, measures, and policies developed as part of these plans, is a primary mechanism in achieving FEMA's goal.

The Multi-Hazard Mitigation Plan (MHMP) is a requirement of the Federal Disaster Mitigation Act of 2000 (DMA 2000). The development of a local government plan is a requirement in order to maintain eligibility for certain federal disaster assistance and hazard mitigation funding programs. In order for the National Flood Insurance Program (NFIP) communities to be eligible for future mitigation funds, they must adopt an MHMP.

The St. Clair County Multi-Hazard Mitigation (MHMP) Planning Committee was established in April of 2009 to define and prioritize the risks in the county and to develop this mitigation plan to minimize both the risks and the consequences of the defined hazards. This team has worked closely on previous mitigation projects such as siren identification and location, area zoning considerations, identification and inventory of hazardous materials, and area training of response personnel. The team will continue to work together to develop and implement mitigation initiatives developed as part of the plan.

In recognition of the importance of planning in mitigation activities, the Federal Emergency Management Agency (FEMA) has created HAZUS-MH (**H**azards **U**SA **M**ulti-**H**azard) a powerful geographic information system (GIS)-based disaster risk assessment tool. This tool enables communities of all sizes to predict the estimated losses from floods, hurricanes, earthquakes, and other related phenomena and to measure the impact of various mitigation practices that might help reduce those losses. The Illinois Emergency Management Agency (IEMA) has determined that HAZUS-MH should play a critical role in the risk assessments in Illinois. Southern Illinois University at Carbondale (SIUC) and The Polis Center at Indiana University Purdue University Indianapolis (Polis) are assisting the St. Clair County EMA and the planning staff with performing the hazard risk assessment.

1.2 Planning Team Information

The St. Clair County Multi-Hazard Mitigation Planning Team was headed Robert Knight, Coordinator of the St. Clair County Emergency Management Agency (EMA) as the primary point of contact, and by Kevin Terveer, Executive Director of Southwestern Illinois Metropolitan and Regional Planning Commission (SIMAPC). Members of the planning team include representatives from St. Clair County elected officials and various county departments, the Regional Planning Commission, cities and villages, fire districts, and public/private utilities. Table 1-1 identifies the planning team individuals and the organizations they represent.

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Table 1-1: Multi Hazard Mitigation Planning Team Members

| Name | Title | Organization | Jurisdiction |
|---------------------------|-------------------------------|--|-------------------------------------|
| <i>Randall Lay</i> | <i>Coordinator</i> | <i>Emergency Management Agency</i> | <i>St. Clair County</i> |
| <i>Robert Knight</i> | <i>Coordinator, Retired</i> | <i>Emergency Management Agency</i> | <i>St. Clair County</i> |
| <i>Kevin Terveer</i> | <i>Executive Director</i> | <i>Southwestern Illinois Metropolitan and Regional Planning Commission</i> | <i>Southwestern Illinois Region</i> |
| <i>Linda Tragesser</i> | <i>Community Planner</i> | <i>Southwestern Illinois Metropolitan and Regional Planning Commission</i> | <i>Southwestern Illinois Region</i> |
| <i>Mark Kern</i> | <i>Chairman</i> | <i>County Board</i> | <i>St. Clair County</i> |
| <i>Chuck Kofron</i> | <i>Coordinator</i> | <i>St. Clair County GIS</i> | <i>St. Clair County</i> |
| <i>Norm H. Forshee</i> | | <i>County 911 Board</i> | <i>St. Clair County</i> |
| <i>Don Feher</i> | <i>Staff</i> | <i>Emergency Management Agency</i> | <i>St. Clair County</i> |
| <i>Randy Lay</i> | <i>Staff</i> | <i>Emergency Management Agency</i> | <i>St. Clair County</i> |
| <i>Isaac Turner</i> | <i>Chief</i> | <i>Alorton Fire Protection</i> | <i>Village of Alorton</i> |
| <i>Mark Eckert</i> | <i>Mayor</i> | <i>Belleville City Council</i> | <i>City of Belleville</i> |
| <i>Craig Stafford</i> | <i>Sergeant, Admin. Asst.</i> | <i>Belleville Police Department</i> | <i>City of Belleville</i> |
| <i>Jennifer Gain</i> | <i>Director</i> | <i>Health, Housing, and Sanitation</i> | <i>City of Belleville</i> |
| <i>Nathaniel O'Bannon</i> | <i>Village President</i> | <i>Brooklyn Board of Trustees</i> | <i>Village of Brooklyn</i> |
| <i>Ralph Wellmaker</i> | | | <i>Village of Brooklyn</i> |
| <i>Al McCarthy</i> | | | <i>Village of Brooklyn</i> |
| <i>Harold Riefle</i> | <i>Coordinator</i> | <i>Cahokia EMA</i> | <i>Village of Cahokia</i> |
| <i>John "Jay" Torry</i> | <i>Director</i> | <i>Department of Public Works</i> | <i>Village of Cahokia</i> |
| <i>Bill Black</i> | <i>Village Trustee</i> | <i>Caseyville Village Board</i> | <i>Village of Caseyville</i> |
| <i>Rodney Lewis</i> | <i>Director</i> | <i>Planning and EMA</i> | <i>City of Centreville</i> |
| <i>Doug Keys</i> | <i>Chief</i> | <i>Dupo Police Department</i> | <i>Village of Dupo</i> |
| <i>Stephanie Townsend</i> | <i>EMA</i> | <i>Dupo Police Department</i> | <i>Village of Dupo</i> |
| <i>Herbert Simmons</i> | <i>Village President</i> | <i>Board of Trustees</i> | <i>Village of East Carondelet</i> |
| <i>Johnnie Matt</i> | <i>Chief</i> | <i>E. Carondelet Police Department</i> | <i>Village of East Carondelet</i> |
| <i>Jeramie Simmons</i> | <i>Assistant Dir.</i> | <i>E. Carondelet Police Department</i> | <i>Village of East Carondelet</i> |
| <i>Rodney Lewis</i> | <i>Fire Fighter</i> | <i>East St. Louis Fire Department</i> | <i>City of East St. Louis</i> |
| <i>Scott Penny</i> | <i>Chief</i> | <i>Fairmont City Police Department</i> | <i>Village of Fairmont City</i> |
| <i>Mark Cronovich</i> | <i>Lieutenant</i> | <i>Fairmont City Police Department</i> | <i>Village of Fairmont City</i> |
| <i>Bob Belba</i> | <i>Chief</i> | <i>Fairmont City Fire Department</i> | <i>Village of Fairmont City</i> |
| <i>Bob Allen</i> | | <i>Fairmont City Fire Department</i> | <i>Village of Fairmont City</i> |

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| Name | Title | Organization | Jurisdiction |
|--------------------------|-------------------------------|---|-----------------------------------|
| <i>Bruce L. Green</i> | <i>Fire Chief</i> | <i>Fairview Heights Fire Department</i> | <i>City of Fairview Heights</i> |
| <i>Nick Gailius</i> | <i>Asst. Police Chief</i> | <i>Fairview Heights Police Department</i> | <i>City of Fairview Heights</i> |
| <i>Brian Funk</i> | <i>Village President</i> | <i>Fayetteville Fire Department</i> | <i>Village of Fayetteville</i> |
| <i>Eugene Kramer</i> | <i>Coordinator</i> | <i>Freeburg EMA</i> | <i>Village of Freeburg</i> |
| <i>Parke Smith</i> | <i>Administrator</i> | <i>City of Lebanon</i> | <i>City of Lebanon</i> |
| <i>Ronald O. Pitts</i> | <i>Director</i> | <i>Public Works and EMA</i> | <i>Village of Lenzburg</i> |
| <i>Raymond Jaimet</i> | <i>Chief</i> | <i>Lenzburg Fire District</i> | <i>Village of Lenzburg</i> |
| <i>Tom Prather</i> | <i>Chief</i> | <i>Marissa Police Department</i> | <i>Village of Marissa</i> |
| <i>Jerry Daugherty</i> | <i>Mayor</i> | <i>City Council</i> | <i>City of Mascoutah</i> |
| <i>Bruce Fleshren</i> | <i>Director, Police Chief</i> | <i>Public Safety, Police Department</i> | <i>City of Mascoutah</i> |
| <i>Weldon Harber</i> | <i>Mayor</i> | <i>Board of Trustees</i> | <i>Village of Millstadt</i> |
| <i>Bill Rainey</i> | <i>Chief</i> | <i>New Athens Police Department</i> | <i>Village of New Athens</i> |
| <i>Arlene Geppert</i> | <i>Coordinator</i> | <i>New Athens EMA</i> | <i>Village of New Athens</i> |
| <i>Richard C. Rohr</i> | | <i>New Athens EMA</i> | <i>Village of New Athens</i> |
| <i>Brent Saunders</i> | <i>Chief</i> | <i>O'Fallon Fire Department</i> | <i>City of O'Fallon</i> |
| <i>Patrick Delaney</i> | <i>Chief</i> | <i>Sauget Police Department</i> | <i>Village of Sauget</i> |
| <i>Al Keuss</i> | <i>Staff Engineer</i> | <i>Engineering Department</i> | <i>Village of Shiloh</i> |
| <i>Raymond Klein</i> | <i>Mayor</i> | <i>Smithton Board of Trustees</i> | <i>Village of Smithton</i> |
| <i>Dan Valentine</i> | <i>Trustee</i> | <i>Smithton Board of Trustees</i> | <i>Village of Smithton</i> |
| <i>Brian Vielweber</i> | <i>Chief</i> | <i>Smithton Police Department</i> | <i>Village of Smithton</i> |
| <i>Phyllis Behrman</i> | <i>Village President</i> | <i>St. Libory Board of Trustees</i> | <i>Village of St. Libory</i> |
| <i>Lisa Ervie</i> | <i>Village Clerk</i> | <i>Village Board</i> | <i>Village of St. Libory</i> |
| <i>Dean Zurliene</i> | <i>Asst. Fire Chief</i> | <i>Summerfield Fire Department</i> | <i>Village of Summerfield</i> |
| <i>David E. Williams</i> | <i>Trustee</i> | <i>Summerfield Board of Trustees</i> | <i>Village of Summerfield</i> |
| <i>Mike Arnold</i> | <i>Chief</i> | <i>Swansea Police Department</i> | <i>Village of Swansea</i> |
| <i>Craig Coughlin</i> | <i>Deputy Chief</i> | <i>Swansea Police Department</i> | <i>Village of Swansea</i> |
| <i>Jackie Causey</i> | <i>Coordinator</i> | <i>Washington Park EMA</i> | <i>Village of Washington Park</i> |

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The Disaster Mitigation Act (DMA) planning regulations and guidance stress that planning team members must be active participants. The St. Clair County MHMP committee members were actively involved on the following components:

- Attending the MHMP meetings
- Providing available Geographic Information System (GIS) data and historical hazard information
- Reviewing and providing comments on the draft plans
- Responding to the Mitigation Measures Survey
- Coordinating and participating in the public input process
- Coordinating the formal adoption of the plan by the county

An MHMP kickoff meeting was held at the St. Clair County Emergency Operations Center on May 6, 2009. Representatives of St. Clair County, SIMAPC, and community representatives attended the meeting. Nicholas Pinter of SIUC explained the rationale behind the MHMP program and answered questions from the participants.

Jonathan Remo from SIU provided an introduction to hazards, and Dave Coats and John Buechler from The Polis Center provided an overview of HAZUS-MH. Professor Pinter described the timeline and the process of the mitigation planning project and presented St. Clair County with a Memorandum of Understanding (MOU) for sharing data and information.

The St. Clair County EMA Coordinator and County Board Chairman, working with Southwestern Illinois Metropolitan and Regional Planning Commission (SIMAPC), organized the committee between April and June, 2009. Data Gathering began at that point for data that would be needed for risk assessment. Six meetings (including the kick-off meeting) would be needed for the project. The four phases of the planning process were planned as follows:

PHASE 1: Organization of Resources

PHASE 2: Risk Assessment

PHASE 3: Development of a Mitigation Plan

PHASE 4: Implementation of the Plan and the Monitoring of Programs

The representative of SIMAPC and the St. Clair County EMA assigned tasks to committee members. The committee determined from the information provided by the Polis Center and SIUC that five additional meetings would be held for the following tasks and purposes:

Meeting #1 – Discuss Public Participation and review initial critical facilities data

Meeting #2 – Prioritize identified Hazards and profile the Hazards for modeling

Meeting #3 – Present the draft Risk assessment document and the SIUC Hazard presentation

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Meeting #4 – Develop Mitigation Strategies

Meeting #5 – Presentation of Draft Plan and discussion of any changes recommended

The date set for completion of the draft plan was November 30, 2009. By June, 2009 the St. Clair County EMA Coordinator and County Board Chairman had appointed additional members to the committee including a representatives from key County departments as well as representatives from each of the twenty-seven incorporated municipalities within the County. Committee members had accumulated data concerning many of the county critical facilities, and had forwarded this data to the SIUC staff for inclusion in their risk assessment process.

The St. Clair County Multi-Hazard Mitigation Planning Committee met on the following dates:

- May 6, 2009 at 9:00 a.m.
- June 18, 2009 at 9:00 a.m.
- September 17, 2009 2:00 p.m.
- December 3, 2009 9:00 a.m.
- April 15, 2010 at 10:00 a.m.

These meetings were held in Belleville at the St. Clair County Emergency Operations Center. Each meeting was approximately two hours in length. The meeting agendas, minutes, and attendance sheets are included in Appendix A. During these meetings, the planning team successfully identified critical facilities, reviewed hazard data and maps, identified and assessed the effectiveness of existing mitigation measures, established mitigation projects, and assisted with preparation of the public participation information.



St. Clair County Emergency Operations Center (EOC)

Unfortunately, representatives from a few of the incorporated communities were not able to attend mitigation strategies meeting (meeting 4). In order to solicit as much feedback as possible for mitigation strategies, surveys were sent to jurisdictions which were not able to attend this meeting. Several communities sent back the surveys and their mitigation ideas were

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incorporated into the plan. Appendix A also contains the completed surveys from all communities that responded.

1.3 Public Involvement in Planning Process

An effort was made to solicit public input during the planning process and a public meeting was held during the formation of the plan on September 17, 2009. Appendix A contains the agendas and minutes from each of the public meetings. Appendix B contains articles published by the local newspaper throughout the public input process.

1.4 Neighboring Community Involvement

The St. Clair County planning team invited participation from various representatives of county government, local city and town governments, community groups, local businesses, and universities. Details of neighboring stakeholders' involvement are summarized in Table 1-2.

Table 1-2: Neighboring Community Participation

| Person Participating | Neighboring Jurisdiction | Organization | Participation Description |
|-----------------------------|---------------------------------|---|---|
| Richard Crocker | Clinton County | Clinton County EMA Coordinator | Neighboring county – reviewed plan and provided comments. |
| Rick Greten | Washington County | Washington County EMA Coordinator | Neighboring county – reviewed plan and provided comments. |
| Gene Henckler | Monroe County | Monroe County Emergency Management Agency | Neighboring county – reviewed plan and provided comments. |
| Larry Ringering | Madison County | Madison County Emergency Management Agency | Neighboring county – reviewed plan and provided comments. |
| Nancy Shilling | Randolph County | Randolph County Emergency Management Agency | Neighboring county – reviewed plan and provided comments. |
| Gary Pondrom | St. Louis Metropolitan Area | East-West Gateway Council of Governments-Community Planning | Neighboring county – reviewed plan and provided comments. |

1.5 Review of Technical and Fiscal Resources

The MHMP planning team has identified representatives from key agencies to assist in the planning process. Technical data, reports, and studies were obtained from these agencies. The organizations and their contributions are summarized in Table 1-3.

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Table 1-3: Key Agency Resources Provided

| Agency Name | Resources Provided |
|--|---|
| St. Clair County Supervisor of Assessments and GIS Department | Tax System Data Base, Parcel Map, Ortho Map |
| Illinois Emergency Management Agency | Illinois 2007 Natural Hazard Mitigation Plan |
| U.S. Army Corps of Engineers | Provided reports about existing land subsidence issue |
| Illinois Department of Natural Resources, Div. of Water | Watershed and stream data |
| Illinois Department of Employment Security | Economic and Demographic Data |
| East-West Gateway Council of Governments | Regional Demographic and Economic Data and 2007 Mississippi River Levee Issues in Illinois |
| US Department of Commerce, Bureau of the Census | Demographics and Physical Characteristics, 2007 Census of Agriculture, County Business Patterns |
| United States Geological Survey | Land Cover, Topography |
| Illinois Department of Commerce and Economic Opportunity | Economic Data and Community Profiles |
| US Department of Agriculture, National Resources Conservation Services | Soils and Geological data, Physical Characteristics |
| US Bureau of Economic Analysis | 2007 Personal Income By County |
| Illinois State Geographical Survey | Topography, Physiography, Coal Mining |
| Illinois State Climatologist | Climate Data |
| National Climatic Data Center | Climate Data |
| Illinois Environmental Protection Agency | Illinois 2008 Section 303(d) Listed Waters and watershed maps. |
| Southwestern Illinois Resource Conservation and Development | Conservation Data |
| Federal Emergency Management Agency (FEMA) | Flood Hazard Information |
| Scott AFB-MidAmerica Airport | Joint Use Plan |
| Agency Name | Resources Provided |
| Southwestern Illinois Metropolitan and Regional Planning Commission | Future Land Use Plan 2012 of Clinton County, Future Land Use and Transportation of Bond County, |
| Regional Commerce and Growth Association (St. Louis Chamber) | Business Data, Demographics |
| U S Army Corps of Engineers | Mississippi Flood plain and levees, Kaskaskia River Project 1957 |
| IDNR/Illinois State Water Survey/Univ. of Ill U-C | Impacts of Recent Climate Anomalies, 2007 |

1.6 Review of Existing Plans

St. Clair County has a rich history of community development planning tradition. The County and its associated local communities utilized a variety of planning documents to direct community development. These documents include land use plans, master plans, emergency response plans, municipal ordinances, and building codes.

In April, 1991 St. Clair County adopted their current Comprehensive Plan. A draft plan was developed in April, 2008 by Woolpert Consultants, but the 2008 Comprehensive Plan update has not yet been completed or adopted by the County.

The MHMP planning process incorporated the existing natural hazard mitigation elements from previous planning efforts. Table 1-4 lists the plans, studies, reports, and ordinances used in the development of the plan.

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Table 1-4: Planning Documents Used for MHMP Planning Process

| Author(s) | Year | Title | Description | Where Used |
|---|-----------------|---|---|--|
| Southwestern Illinois Metro & Regional Planning Commission | 2003 – 2008 | Comprehensive Economic Development Strategy (CEDS) | Lists economic and community projects for local governments. Includes mitigation to prevent developing in floodplain and building safer structures to withstand a potential earthquake. | Mitigation strategies from this plan were incorporated |
| Woolpert Consultants with Thouvenot, Wade & Moerchen | 1991 | Comprehensive Plan, St. Clair County, Illinois | Comprehensive plan for land use, transportation, and public facilities. | Sections related to hazards incorporated into MHMP. |
| Woolpert Consultants | Not yet adopted | St. Clair County, Illinois (Draft) Comprehensive Plan Update – 2008 | Background information for planning | Sections related to existing land use and demographics |
| East West Gateway Council of Governments By Region Wise | 2003 | <i>“Green Illinois: Building a Healthy Future for the Residents of St. Clair, Illinois”</i> | Summary report from November, 2003 public prioritization forum. | Watershed protection and preservation of greenspace. |
| St. Clair County | 2004 | Revised Code of Ordinances of St. Clair County Illinois | This codebook includes ordinances for floodplain, and planning / zoning. | These ordinances were considered for MHMP because they are designed to mitigate hazards. |
| St. Clair County | 1993 | Flood Plain Management Plan | Coordinated Plan for reducing impact of flood emergencies | Sections related to hazards incorporated into MHMP. |
| City of O’Fallon | 2006 | O’Fallon Comprehensive Plan | Comprehensive plan for land use, transportation, and public facilities. | Sections related to hazards incorporated into MHMP. |
| City of Mascoutah | | Unified Development Code | This code includes ordinances for floodplain, planning / zoning, land subdivision, and development standards. | Sections related to hazards incorporated into MHMP. |
| Village of Shiloh | | Code of Ordinances | Title XV, Land Usage includes ordinances for floodplain, | Sections related to hazards incorporated into MHMP. |
| Village of Swansea | | Swansea Municipal Code | Chapters 15 – 20, Land Development Code | Sections related to hazards incorporated into MHMP. |
| Village of Caseyville | | Caseyville Development Code | This code includes ordinances for floodplain, planning / zoning, land subdivision, and development standards. | Sections related to hazards incorporated into MHMP. |
| East-West Gateway Council of Governments | 2007 | St. Clair County Environmental Education Booklet | Information on air quality, water resources, transportation, etc. in St. Clair County | Environmental information |
| East-West Gateway Council of Governments | 2007 | Mississippi River Levee Issues in Illinois | Levee Assessment Information | Flood Hazards |

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| Author(s) | Year | Title | Description | Where Used |
|---|-------------|---|---|---|
| East-West Gateway Council of Governments | | Regional All-Hazard Mitigation Plan | Liquefaction Analysis for the St. Clair County Floodplain | Levee and flood issues |
| HNTB Corp. for MoDot | 2009 | Draft Geotechnical Report for the I-70 Mississippi River Bridge, St. Louis, MO – E. St. Louis, IL | Engineering Report | Flood and Earthquake hazards |
| City of Fairview Heights | | Land Use and Development Code | This code includes ordinances for floodplain, planning / zoning, land subdivision, and development standards. | Sections related to hazards incorporated into MHMP |
| City of Lebanon | | Lebanon Municipal Code | Chapters 14 Planning and Chapter 7 Civil Defense | Sections related to hazards incorporated into MHMP. |
| State of Illinois Emergency Management Agency | 2007 | 2007 Illinois Natural Hazard Mitigation Plan | The INHMP lays out the process for identifying and mitigating natural hazards threats reasonably expected in the State of Illinois according to requirements of the Disaster Mitigation Act of 2000 | Guidance on hazards and mitigation measures, topography and other geologic information. |
| Southwestern ILL Planning Commission | 2009 | Village of Smithton 2029 Land Use Plan | Comprehensive plan for land use, transportation, and public facilities. | Sections related to hazards incorporated into MHMP. |

St. Clair County Multi-Hazard Mitigation Plan

Section 2 – Jurisdiction Participation Information

The jurisdictions included in this multi-jurisdictional plan are listed in Table 2-1.

Table 2-1: Participating Jurisdictions

| Jurisdiction Name | Chief Executive Officer |
|----------------------------|--|
| County of St. Clair | Honorable Mark Kern, County Board Chairman |
| Village of Alorton | Honorable Randy McCallum, Village President |
| City of Belleville | Honorable Mark Eckert, Mayor |
| Village of Brooklyn | Honorable Nathaniel O'Bannon, Village President |
| Village of Cahokia | Honorable Frank Bergman, Village President |
| Village of Caseyville | Honorable George Chance, Village President |
| City of Centreville | Honorable Mark Jackson, Mayor |
| Village of Dupo | Honorable Ron Dell, Village President |
| Village of East Carondelet | Honorable Herbert Simmons, Village President |
| City of East St. Louis | Honorable Alvin Parks, Mayor |
| Village of Fairmont City | Honorable Alex Bregen, Jr., Village President |
| City of Fairview Heights | Honorable Gail Mitchell, Mayor |
| Village of Fayetteville | Honorable Brian Funk, Village President |
| Village of Freeburg | Honorable Raymond Danford, Village President |
| City of Lebanon | Honorable Scott Abner, Mayor |
| Village of Lenzburg | Honorable James K. Stolte, Village President |
| Village of Marissa | Honorable Jerry Cross, Village President |
| City of Mascoutah | Honorable Gerald Daughtery, Mayor |
| Village of Millstadt | Honorable Weldon Harber, Village President |
| Village of New Athens | Honorable Dennis Breithaupt, Village President |
| Village of New Baden | Honorable David Brandmeyer, Village President |
| City of O'Fallon | Honorable Gary L. Graham, Mayor |
| Village of Sauget | Honorable Richard Sauget, Jr., Village President |
| Village of Shiloh | Honorable James Vernier, II, Mayor |
| Village of Smithton | Honorable Raymond Klein, Village President |
| Village of St. Libory | Honorable Phyllis Behrman, Village President |
| Village of Summerfield | Honorable Lonnie Yates, Village President |
| Village of Swansea | Honorable Jim Rauckman, Village President |
| Village of Washington Park | Honorable Cynthia Stovall-Hollingsworth, Village President |

2.1 Adoption by local governing body

The draft plan was made available on April, 1 2010 to the planning team and other agencies for review. Comments were then accepted. The St. Clair County Hazard Mitigation Planning team presented and recommended the plan to St. Clair County Board who adopted the St. Clair County Hazard Mitigation Plan *<date adopted>*. After St. Clair County's adoption of the hazard

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mitigation plan, the twenty-eight (28) participating incorporated communities also passed adopting resolutions during the period _____ Resolutions for adoption are included in Appendix C of this plan.

2.2 Jurisdiction Participation

It is required that each jurisdiction participates in the planning process. Table 2-2 lists each jurisdiction and describes its participation in the construction of this plan.

Table 2-2: Jurisdiction Participation

| Jurisdiction Name | Participating Member | Participation Description MHMP Committee |
|------------------------------|---|--|
| St. Clair County | Chuck Kofron, GIS Coordinator | Member, attended meetings |
| St. Clair County | Robert Knight, Retired EMA Coordinator | Member, attended meetings |
| St. Clair County | Don Feher, EMA | Member, attended meetings |
| St. Clair County | Randy Lay, EMA Coordinator | Member, attended meetings |
| Village of Alorton | Isaac Turner | Member, attended meetings, survey response |
| City of Belleville | Jennifer Gain | Member, attended meetings, survey response |
| City of Belleville | Craig Stafford | Member, attended meetings |
| City of Belleville | Scott Lanxon | Member, attended meetings |
| Village of Brooklyn | Nathaniel O'Bannon | Member, attended meetings, survey response |
| Village of Brooklyn | Al McCarthy | Member, attended meetings |
| Village of Brooklyn | Ralph Wellmaker | Member, attended meetings |
| Village of Cahokia | Harold Riefle | Member, attended meetings |
| Village of Cahokia | John "Jay" Torry | Member, survey response |
| Village of Caseyville | Bill Black | Member, attended meetings, survey response |
| City of Centreville | Rodney Lewis | Member, attended meetings, survey response |
| Village of Dupo | Stephanie Townsend | Member, attended meetings |
| Village of Dupo | Doug Keys | Member, attended meetings |
| Village of East Carondelet | Col. Johnnie Matt | Member, attended meetings |
| Village of East Carondelet | Jerame Simmons | Member, attended meetings, survey response |
| City of East St. Louis | Rodney Lewis | Member, attended meetings, survey response |
| Village of Fairmont City | Scott Penny | Member, attended meetings, survey response |
| Village of Fairmont City | Mike Cronovich | Member, attended meetings |
| Village of Fairmont City | Bob Belba | Member, attended meetings |
| Village of Fairmont City | Bob Allen | Member, attended meetings |
| City of Fairview Heights | Nick Gailius | Member, attended meetings |
| City of Fairview Heights | Bruce L. Green | Member, attended meetings |
| Village of Fayetteville | Randy Lay | Member, attended meetings, survey response |
| Village of Freeburg | Eugene Kramer | Member, attended meetings, survey response |
| City of Lebanon | Parke A. Smith | Member, attended meetings, survey response |
| Village of Lenzburg | Raymond Jaimet | Member, MHMP planning committee |
| Village of Lenzburg | Ronald O. Pitts | Member, attended meetings, survey response |
| Village of Marissa | Tom Prather | Member, attended meetings, survey response |
| City of Mascoutah | Jerry Daugherty | Member, completed survey response |
| City of Mascoutah | Bruce Fleshren | Member, attended meetings, survey response |
| Village of Millstadt | Weldon Harber | Member, attended meetings, survey response |
| Village of New Athens | Bill Rainey | Member, attended meetings |
| Village of New Athens | Arlene Geppert | Member, attended meetings |
| Village of New Athens | Richard C. Rohr | Member, attended meetings |
| City of O'Fallon | Brent Saunders | Member, attended meetings, survey response |
| Village of Sauget | Patrick Delaney | Member, attended meetings, survey response |
| Village of Shiloh | Alan Keuss | Member, attended meetings, survey response |
| Village of Smithton | Ray Klein | Member, attended meetings |
| Village of Smithton | Brian Vielweber | Member, attended meetings, survey response |
| Village of Smithton | Dan Valentine | Member, attended meetings |
| Village of St. Libory | Phyllis Berhrman | Member, attended meetings, survey response |
| Village of St. Libory | Lisa Ervie | Member, attended meetings |
| Village of Summerfield | Dean Zurleine | Member, MHMP planning committee |
| Village of Summerfield | David E. Williams | Member, attended meetings, survey response |
| Village of Swansea | Craig Coughlin | Member, attended meetings |
| Village of Washington Park | Jackie Causey | Member, attended meetings |
| Southwestern Illinois Region | Kevin Terveer, SIMAPC Exec. Dir. | Member, MHMP planning committee |
| Southwestern Illinois Region | Linda Tragesser, SIMAPC Community Planner | Member, attended meetings, facilitator |

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All members of the MHMP planning committee were actively involved in attending the MHMP meetings, providing available Geographic Information Systems (GIS) data and historical hazard information, reviewing and providing comments on the draft plans, coordinating and participating in the public input process, and coordinating the county's formal adoption of the plan. For those planning team members which could not attend the mitigation strategies meeting (Meeting 4) they were asked to review the strategies developed at this meeting and fill out a survey. The survey was used to identify which existing mitigations strategies applied to their communities and to solicit ideas for new mitigation ideas for their respective jurisdictions and the County. These completed surveys can be found in Appendix A.

Section 3 - Jurisdiction Information

Archaeologists have estimated that the Southwestern Illinois area was first inhabited around 8000 B.C. Although very little is known about these original inhabitants, later prehistoric cultures are known to have lived along the area's major waterways. Most notable of the prehistoric cultures of the area was the Mississippian which prevailed in the area from approximately 900 A.D. to 1500 A.D. These Native Americans are referred to as mound builders because of their construction and use of large earthen mounds for ceremonial and burial purposes. Although the cultural and economic center of this society was centered near present day Collinsville, at the site of the Cahokia Mounds Historical Site, various tribes were scattered throughout Southwestern Illinois. The Mississippian culture vanished mysteriously during the Sixteenth Century. It has been theorized that a severe drought and eventual famine were the causes.

The first Europeans to visit the area were Louis Joliet, a French explorer and trader, and his missionary companion, Father Jacques Marquette. In 1673, the two traveled from Wisconsin along the Mississippi River as far south as the Arkansas River and then returned north to Canada by way of the Illinois River. In 1675, Father Marquette returned to the area and established a mission. Subsequently, other missions and finally entire French villages were established at various locations in the American Bottoms. The Village of Cahokia was settled in 1686, and Prairie du Pont had a settlement by 1754. Cultivation of land began in approximately 1700.

The area was a possession of France from 1675 until 1762 when France ceded all land east of the Mississippi to Britain. Most European inhabitants of the area were French, and the native Americans of the area, including the Delaware, Shawnees, Miamis, and the Illinois, were friendly only to the French. The Illinois Indians, a branch of the Algonquins, consisted of five tribes: The Tamaroas, The Michiganies, The Kaskaskias, the Cahokias, and the Peorias. The Cahokias and Tamaroas united and occupied the area where The Village of Cahokia now exists. Many French inhabitants, refusing to submit to English rule, left the area, crossing the Mississippi to Ste. Genevieve and St. Louis, unaware that France had ceded all land west of the Mississippi to Spain by secret treaty.

English settlers began to arrive in the area, and their rapid occupation, with their far-flung settlements popping up, pushed further and further into the wilderness. The large areas claimed for cultivation invaded the Indian hunting grounds. By contrast, the French inhabitants had shown little interest in forming new settlements or occupying the wilderness, and the solitary life of a pioneer in the forest or on the prairies did not appeal to them. The French had lived in compact villages and hunted for food. As a result, Indian hostilities in the area were directed almost exclusively against English settlers. Settlements at Turkey Hill (1797), French Village (1800), and Stookey (1802) were soon followed by Ridge Prairie, Ogle, and Clinton Hill. Most settlers to the area were from Virginia, Kentucky, Tennessee, Pennsylvania, and Maryland. In 1810 the federal census showed St. Clair County with a population of 5,007, although three-quarters of the population lived below the bluff within the American Bottom.

In 1778 General George Rogers Clark invaded and conquered the area, and the Territory of Illinois was organized into a county by the Legislature of Virginia, on the 12th of December, 1778. In

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1784 the Illinois Territory was ceded by Virginia to the United States. St. Clair County, the oldest county in the State of Illinois, once stretched from Fort Massac on the Ohio River in a line northwest to the present site of Peoria, followed the Illinois River to the banks of the Mighty Mississippi and continued on to the Ohio River at Fort Massac. The area was part of the Northwest Territory which was established by Congress in 1787, and Arthur St. Clair, became the Governor of the Northwest Territory. In 1790 Governor St. Clair laid out the boundaries for the county which now bears his name. He established the county seat in Cahokia. The Church of The Holy Family in Cahokia is the oldest church west of the Allegheny Mountains. The church was established in 1699 by Catholic missionaries from the seminary of Quebec. The county seat was later moved to Belleville in 1814, though Belleville was not incorporated until 1819. McKendree University, the oldest college in the State of Illinois, was founded at Lebanon in 1828. The Belleville public library was established in 1836, and is the oldest library in the state.

In 1829 eleven African-American families, some fugitive and some free, fled slavery in the neighboring state of Missouri and founded a settlement in the wilderness of the American Bottoms. The area they settled was laid out and platted in 1837 is the current Village of Brooklyn, and in 1873 it was incorporated, making it the oldest town incorporated in the United States by African-Americans.

Illinois obtained statehood in 1818, and in 1820 St. Clair County had more than 5,000 residents. Its population did not reach 10,000 until around 1835, but following the Civil War there were more than 50,000 citizens in St. Clair County. As of 2006 the Census Bureau estimated St. Clair County's population at 260,019.

St. Clair County is home to Scott Air Force Base which pumps about \$2 billion a year into the region's economy. With more than 13,000 employees, Scott is one of the top five employers in the St. Louis region.

The following institutions of higher learning are located in St. Clair County:

- | | |
|--|--|
| • McKendree College | 2009 Enrollment: approximately <u>3,000</u> |
| • Lindenwood College—Belleville Campus | 2009 Enrollment: approximately <u>64</u> |
| • St. Louis University—Belleville Campus | 2009 Enrollment: |
| • Southern Illinois University—E. St. Louis Campus | 2009 Enrollment: |
| • Southwestern Illinois College | 2009 Enrollment: approximately <u>25,638</u> |

St. Clair County is surrounded by several major tourist attractions including the National Shrine of Our Lady of the Snows, Gateway International Raceway and Cahokia Mounds.

3.1 Topography

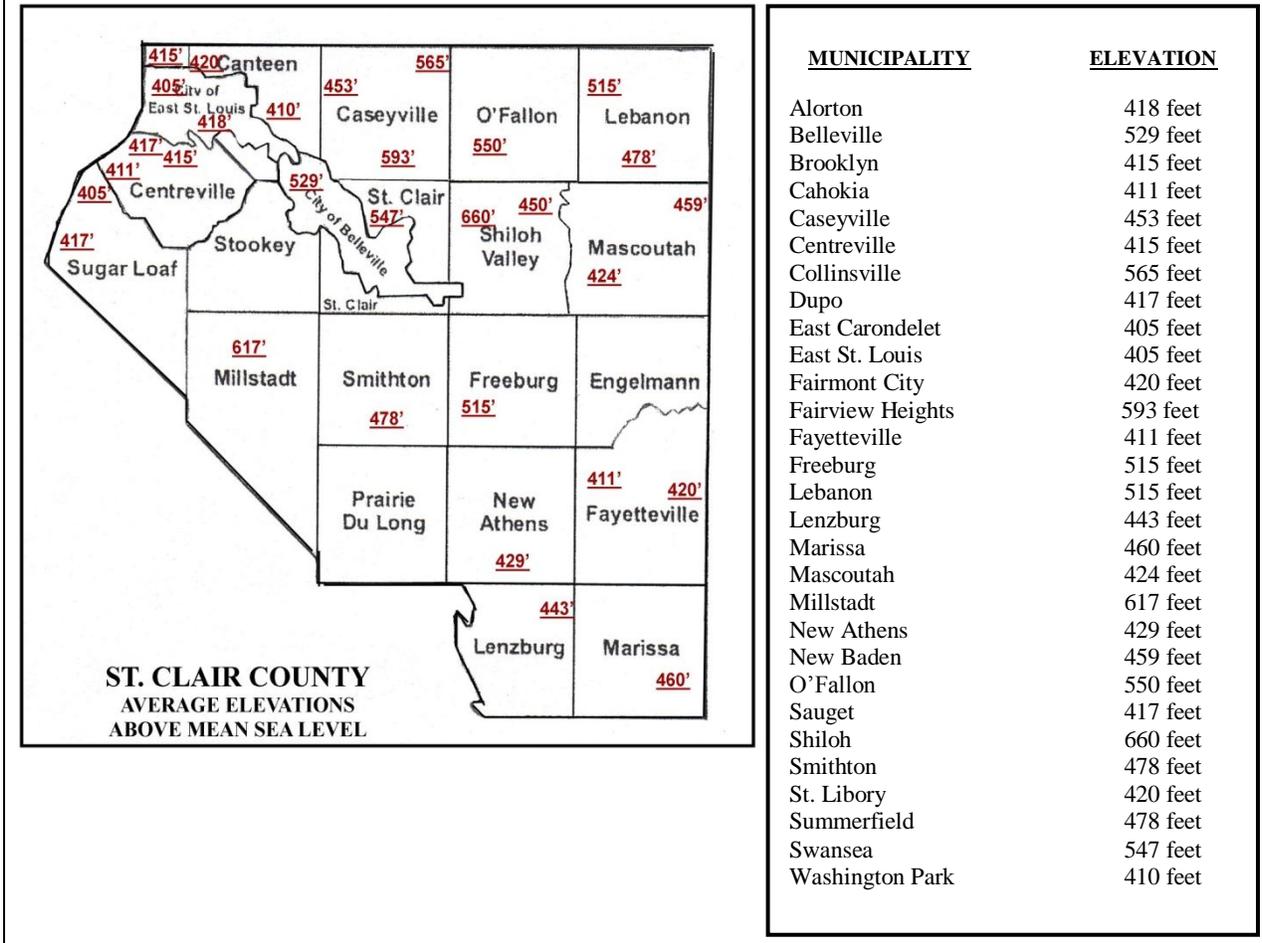
St. Clair County is located in the southwestern region of Illinois and is part of the St. Louis Metropolitan area. It has an area of approximately 674 square miles of which 664 square miles are land and 10 square miles are covered by water. It is bordered on the north by Madison County; on the east by Clinton



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and Washington Counties; on south by Randolph and Monroe Counties, and on the west by the Mississippi River. Elevations in St. Clair County range from 405 feet above mean sea level in the at East Carondelet and East St. Louis on the Mississippi, to 660 feet above sea mean level above the bluff around the Village of Shiloh.

PLATE 3.1 ST. CLAIR COUNTY ELEVATIONS



According to Southwestern Illinois Metropolitan Area Planning Commission's *Land Characteristics Study for St. Clair County*, St. Clair County's physiographic features within its 670 square miles are very diverse. The American Bottoms, a broad expanse of flat bottomland, extends along the Mississippi in the westernmost part of the county. The Bottoms penetrate the interior in a broad band that widens to a distance of about eight miles in the northwestern section. The average elevation of the American Bottoms is only a few feet above the normal water stage of the Mississippi—roughly 400 feet above mean sea level. The Bottoms were formed by the repeated flooding of the Mississippi River during past geologic eras. Although they are protected by a system of levees, drainage problems arise in several areas during periods of excessive rainfall and surface runoff from the uplands.

The bluffs rimming the easternmost edge of the American Bottoms, and extending along a line generally parallel to the course of the Mississippi River, rise abruptly from the flood plain up to heights of over two hundred feet. Thick wind-blown loess deposits are frequently standing in

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sheer banks and are moderately dissected by an occasional large stream and numerous intermittent one. Prominent limestone outcrops and bluffs occur in the vicinity of Dupo.

The remainder of the county consists of moderately to gently rolling uplands that are frequently broken by small streams draining to the American Bottoms and south to the Kaskaskia River. The drainage system has formed a series of low extenuated ridges that are slightly elevated and generally extended in a north-south direction. The larger streams, particularly Silver Creek and Richland Creek, draining the upland area generally have low gradients that tend to aggravate flooding conditions during periods of excessive rainfall. In the extreme southwestern section of St. Clair County, adjacent to the bluffs, irregular “sinkhole”, or Karst, topography is found. The surface contains numerous depression and pits or, ”sinkholes” , which are underlain by soluble limestone formations. Surface drainage in this area is channeled to underlying formations. The alluvial soils, and soils developed on terrace positions, are subject to flooding or ponding. The frequency of flooding varies considerable within the county, and the mere presence of flooding hazard presents a severe limitation on choice of land use.

The large alluvial area along the Mississippi River has an extensive levee system installed which protects this area from Mississippi River flood waters. The remaining creeks and rivers in the county are above flood stage several times during the year. This frequency of flooding is a severe hazard to any land use. Associated with the Kaskaskia River are several areas of terrace position soils, and these areas are less subject to flooding than the alluvial soils along the Kaskaskia. Terrace positions are old alluvial plain, ordinarily flat or undulating, bordering a river, lake or sea, and are called “second bottoms” rather than flood plains. The terrace areas east and south of Fayetteville are at a lower elevation than those north of Fayetteville, and are thus more subject to flooding.

The upland areas of St. Clair County were covered by sheets of ice during the Illinoian Glaciation. When the glaciers receded they deposited glacial drift debris and glacial till, and left the land basically flat with a pattern of elongated ridges. The General Soils Associations in the county are:

- Alford-Muren Association
- Alford-Muren (Sinkholes) Association
- Hosmer-Stoy Association
- Bluford-Ava-Blair Association
- Harrison-Douglas-Ipava Association
- Harrison-Ipava-Sable Association
- Herrick-Harrison-Ipava Association
- Cowden-Piasa-Herrick Association
- Okaw-Hurst-403 (unnamed silt loam) Association
- Worthen-Littleton-Drury Association
- Darwin-Wakeland-Newart Association

St. Clair County’s geological formation outside the American Bottoms is similar to that of other counties in the same section. Thick layers of limestone lie near the surface, with coal seams underlying the same at varying depths. The soil is varied, being at some points black and loamy and at others decidedly clayey. Strip mines occupy about 2 percent of the county, and the spoil

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material has a wide range in composition, reaction, stoniness, and slope. Land use suitability requires site inspection before specific rating or limitations can be determined.

3.2 Climate

St. Clair County’s climate is typical of Southwestern Illinois. The variables of temperature, precipitation, and snowfall can vary greatly from one year to the next. Winter temperatures can fall below freezing starting as early as October and extending as late as April. Based on National Climatic Data Center (NCDC), normals from 1971 to 2000, in winter, on average the lowest normal winter temperature, occurring in January, is 23° F, and the average normal high, occurring in March, is 53.7° F. In summer, the average normal low, occurring in June, is 62.1° F and average normal high, occurring in July is 89.1° F. The list below provides the complete data from the National Climatic Data Center for St. Clair County.

Table 3-1 Climate Data

| Climate | St. Clair County, IL | United States Avg |
|-------------------------------|----------------------|-------------------|
| Rainfall (in.) | 38.2 | 36.6 |
| Snowfall (in.) | 13.6 | 25.2 |
| Precipitation Days | 98 | 101 |
| Sunny Days | 202 | 205 |
| Avg. July High | 89.1 | 86.5 |
| Avg. Jan. Low | 22.7 | 20.8 |
| Comfort Index (higher=better) | 40 | 44 |
| UV Index | 4.1 | 4.3 |
| Elevation ft. | 460 | 1,062 |

Source: National Climatic Data Center

3.3 Demographics

The United States Census Bureau has estimated the 2008 population of St. Clair County at 262,291. At the 2000 Census the county had a population of 256,082 with a density of 386 per square mile. Between the 1990 Census and the 2000 Census its population decreased by 2.58%, but the 2008 Census estimate reflects an increase of 2.42% since 2000. The average household size is 2.59 persons compared to an average state family size of 3.13 persons. The County’s largest municipality is Belleville, with East St. Louis, O’Fallon, Fairview Heights, Cahokia, Swansea, and Shiloh being the next most populous municipalities.

The County population is spread out through twenty-two townships including:

PLATE 3.2 ST. CLAIR COUNTY TOWNSHIPS

| Township | 2008 Estimated Population |
|-----------------|----------------------------------|
| Belleville | 41,097 |
| Canteen | 11,411 |
| Caseyville | 28,289 |
| Centreville | 26,599 |
| East St. Louis | 28,773 |
| Engelmann | 689 |
| Fayetteville | 1,750 |
| Freeburg | 5,302 |
| Lebanon | 4,902 |
| Lenzburg | 1,123 |
| Marissa | 2,542 |
| Mascoutah | 7,528 |
| Millstadt | 5,846 |
| New Athens | 2,681 |
| O'Fallon | 26,111 |
| Prairie du Long | 1,745 |
| Shiloh Valley | 11,419 |
| Smithton | 4,251 |
| St. Clair | 32,986 |
| Stites | 627 |
| Stookey | 9,228 |
| Sugar Loaf | 7,392 |



Southwestern Illinois Metropolitan and Regional Planning Commission

The 2000 Census also shows the County's population is also spread out by age with 27.7% being under the age of eighteen, and 13.2% were age 65 or above. The median age was 35 years. There were 96,810 households, 104,446 housing units, and the housing density was 157 units per square mile. The breakdown of 2008 population estimate by incorporated areas is included in Table 3-2. The Census Bureau's July 1, 2008 estimate of the number of housing units in St. Clair County is 115,508.

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Table 3-2: Population by Community

| Community | 2008 Population Estimate | % of County |
|---|--------------------------|-------------|
| St. Clair County | 262,291 | 100% |
| Village of Alorton | 2,256 | 0.86% |
| City of Belleville | 41,097 | 15.67% |
| Village of Brooklyn | 620 | 0.24% |
| Village of Cahokia | 15,103 | 5.76% |
| Village of Caseyville | 4,280 | 1.63% |
| Village of Dupo | 4,073 | 1.55% |
| Village of East Carondelet | 577 | 0.22% |
| City of East St. Louis | 28,773 | 10.97% |
| Village of Fairmont City | 2,244 | 0.86% |
| City of Fairview Heights | 16,643 | 6.35% |
| Village of Fayetteville | 371 | 0.01% |
| Village of Freeburg | 4,481 | 1.71% |
| City of Lebanon | 4,477 | 1.71% |
| Village of Lenzburg | 530 | 0.20% |
| Village of Marissa | 1,982 | 0.76% |
| City of Mascoutah | 6,701 | 2.55% |
| Village of Millstadt | 3,348 | 1.28% |
| Village of New Athens | 1,999 | 0.76% |
| City of O'Fallon | 27,540 | 10.50% |
| Village of St. Libory | 625 | 0.24% |
| Village of Sauget | 237 | 0.01% |
| Village of Shiloh | 11,173 | 4.26% |
| Village of Smithton | 3,418 | 1.30% |
| Village of Summerfield | 473 | 0.02% |
| Village of Swansea | 12,927 | 4.93% |
| Village of Washington Park | 5,558 | 2.12% |
| Total Population of Incorporated Areas | 201,506 | 76.83% |
| Total Population of Unincorporated Areas | 60,785 | 23.17% |

Source: American FactFinder , 2008 Population Estimates

3.4 Economy

Illinois MapStats reported a civilian work force of 126,269 for 2007, and that 81,247 (64.3%) of the workforce in St. Clair were employed in the private sector. The breakdown is included in Table 3-3. Educational and Health Services represents the largest sector, employing

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approximately 21.3% of the workforce. Annual per capita income in St. Clair County is \$ 18,932 compared to an Illinois average of \$ 23,104.

Table 3-3: Industrial Employment by Sector

| Private Industrial Sector | Total Establishments | % of County Workforce (2007 Base year) |
|--|----------------------|--|
| Agriculture, forestry, fishing, hunting, and mining | 12 | Not disclosed |
| Construction | 560 | 4,861 (7.4%) |
| Manufacturing | 188 | 5,993 (7.2%) |
| Wholesale trade | 202 | 1,913 (3.3%) |
| Retail trade | 971 | 14,040 (11.8%) |
| Transportation, warehousing and utilities | 180 | 4,879 (3.1%) |
| Professional, Technical and Business Services | 521 | 5,266 (2.7%) |
| Information | 83 | 1,169 (.98%) |
| Finance, insurance, real estate, and rental/leasing | 528 | 3,973 (3.3%) |
| Administrative support & Waste management services | 286 | 4,857 (.6%) |
| Educational, health, and social services | 673 | 16,344 (21.3%) |
| Arts, entertainment, recreation, accommodation and food services | 633 | 11,854 (6.4%) |
| Personal and other services(except public administration) | 655 | 4,837 (3.1%) |
| Management of Companies and Enterprises | 22 | 388 |
| Nonemployer Establishments (no paid employees, self employed) | 13,036 | N/A not included in private labor force figures above |
| Government Workers** | 19,949 | (Note: not included in private labor force figures above. Government workers constitute 16.6% of all persons age 16 and over in work force potential of 202,312) |
| Public Administration** | 9,695 | |
| Total all private industries (excluding Nonemployer and Gov't): | 81,257 | |

Source: <http://censtats.census.gov/cgi-bin/cbpnaic/cbpsect.pl>

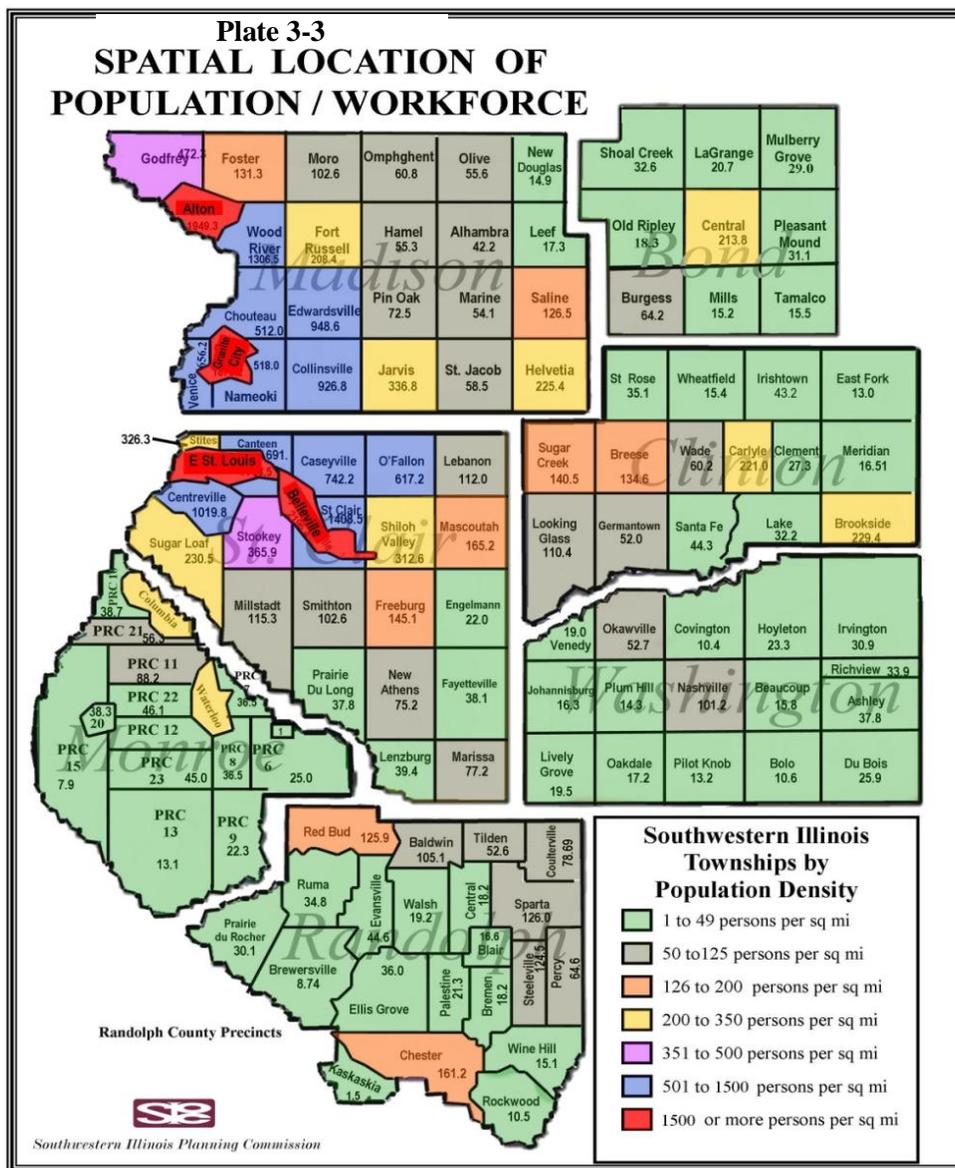
also: American Community Economic Survey for 2007 at http://factfinder.census.gov/servlet/ADPTable?_geo_id=05000US17163&-qr_name=ACS_2007_1YR_G00_DP3&-ds_name=ACS_2007_1YR_G00

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The American Community Survey of 2007 from the U. S. Census provides the following data for the St. Clair County workforce:

Table 3-4 St. Clair County Civilian Workforce

| | | |
|--|----------------|-------------|
| Civilian employed population 16 years and over | 120,509 | 100% |
| Private wage and salary workers | 94,453 | 78.4% |
| Government workers | 19,949 | 16.6% |
| Self-employed workers in own not incorporated business | 5,930 | 4.9% |
| Unpaid family workers | 177 | 0.1% |



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3.5 Industry

St. Clair County has a very diverse economy ranging from agriculture to manufacturing to wholesale and retail trade and government. The County's major employer is Scott Air Force Base which employs more than 13,000. Table 3-5 lists the County's major employers. When reviewing the list it is important to remember that the County also has nearly 900 farms with approximately 307,000 acres engaged in farming.

Table 3-5: Major Employers

| Company Name | Location | NAICS CODE | | Employees | Type of Business |
|---|---------------------|------------|--|-----------|------------------------------------|
| Manufacturing | | | | | |
| Cerro Flow Products | E. St. Louis | 331421 | | 500+ | Copper Fabricators |
| Afton Chemical Corporation | E. St. Louis | 325998 | | 250+ | Chemicals Manufacturer |
| Big River Zinc Corporation | Sauget | 325188 | | 250+ | Calcium Carbonate Manufacturer |
| Belleville Shoe Manufacturing | Belleville | 316213 | | 500+ | Nonathletic Footwear Manufacturer |
| Empire Comfort Systems | Belleville | 333414 | | 250+ | Heating Equipment Manufacturer |
| Trade Waste Incineration | Sauget | 423930 | | 250+ | Waste Reduction/Recycling |
| Transportation | | | | | |
| Alton and Southern Railway | E. St. Louis | 482111 | | 500+ | Railroad Transportation |
| Midcoast Aviation | Cahokia | 541690 | | 500 + | Aviation Consultants |
| Metro East Industries Inc. | E. St. Louis | 336510 | | 250+ | Railroad Rolling Stock Manufacture |
| Financial | | | | | |
| REGIONS BANK | Belleville | 522110 | | 1,208 | Commercial Banking |
| Leisure and Hospitality | | | | | |
| Casino Queen Casino/Hotel | E. St. Louis | | | 1,100 | Gaming |
| Shrine of Our Lady of the Snows | Belleville | 722310 | | 250+ | Banquet Rooms |
| Wholesale and Retail | | | | | |
| Walmart | Belleville/O'Fallon | 452111 | | 1,000+ | Department Stores |
| Holten Meat Incorporated | Sauget | 424470 | | 250+ | Wholesale Meat & Meat Products |
| J. C. Penney | Fairview Heights | 452111 | | 250+ | Department Stores |
| Education and Health, Government | | | | | |
| Memorial Hospital | Belleville | 622110 | | 2,200 | Hospitals |
| St. Elizabeth Hospital | Belleville | 622110 | | 1,700 | Hospitals |
| East St. Louis School District | E. St. Louis | 611110 | | 1,300 | Elementary & Secondary Schools |
| St. Clair County | Belleville | 922110 | | 1,000 | County Government - Courts |
| Belleville School District 189 | Belleville | 611110 | | 834 | Elementary & Secondary Schools |
| Touchette Regional Hospital | E. St. Louis | 622110 | | 250+ | Hospitals |
| Southwestern Illinois College | Belleville | 611310 | | 250+ | Academic |
| Southern Illinois University | E. St. Louis | 611310 | | 250+ | Academic |
| Scott Medical Cntr. | Scott AFB | 622110 | | 250+ | Hospitals |
| USAF Military Airlift Command | Scott AFB | 928110 | | 5,000 | National Security |
| Southwestern Illinois Correctional Center | E. St. Louis | 561210 | | 250+ | Government-Facilities Support |

Sources: Illinois Workforce Information Center, <http://wic.ilworkinfo.com/analyzer/empselfdata.asp>, accessed 12/15/2008

St. Louis Regional Chamber and Growth Association (RCGA) <http://gotostlouis.org> accessed 12/15/08

3.6 Land Uses and Development Trends

Like much of Illinois, St. Clair County has some of the most productive farmland in nation with much of the County covered by high quality agricultural soils. Agriculture has been the dominant land use in the County for decades despite the urbanization of the northwestern and north-central portion of the county. As a predominantly family-owned industry, agriculture continues to play a vital role in the County's economy. The trend toward farm specialization and bigger and bigger equipment has changed the face of agriculture in the County, as it has for the nation as a whole. Fewer farms are found in many counties today, yet in St. Clair County the number of farms increased from 811 at the 2002 Census of Agriculture to 895 at the 2007 Census of Agriculture. The Illinois Department of Agricultural reports that there are 306,533 acres of agricultural land in St. Clair, representing 72% of the land use, with the average farm size being 342 acres. This acreage is roughly evenly split between Corn and Soybean except for 14% in Winter wheat, 5% in other small grains and hay, and 7% in rural grassland.

The County has 38,914 acres of wetland, mostly in floodplain forests, and 12% of the total area of the county is covered by open water having 7,962 acres (mostly in lakes or rivers).

There are 102.2 acres of urban and built up land constituting 15.1%%, of which 16,574 acres (3.8%) are high density municipal areas. Residential is the second largest land use in the County in terms of impact. The predominant housing type in the unincorporated areas is single-family detached housing. Recent trends reflect an increase in the number and size of homes, and demographic data reflects that St. Clair County is following the national trend of smaller household size. As a result, more land is being used to accommodate fewer people. Population migration in the County has raised some concern about the spread of scattered residential subdivisions and the future of agriculture.

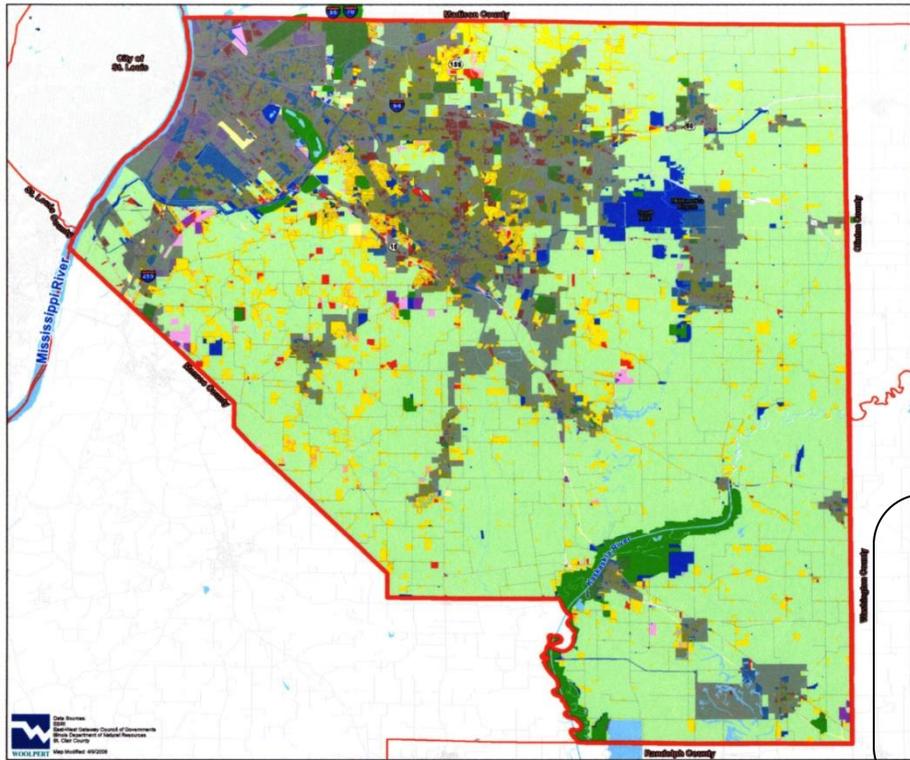
Industrial and Commercial land uses are found within the high density municipal areas, but are found also found in large quantity within the 33,972 acres of urban Low/Medium density land use area or in the 14,844 acres of urban open space. Most new development is occurring in urban open spaces surrounding the more populace municipalities in the central part of the county along the Interstate 64 corridor.

The Casino Queen Casino and Hotel, the Gateway International Raceway, Cahokia Mounds State Park, and the National Shrine of Our Lady of the Snows are local attractions that sufficiently alter normal density patterns where careful planning is required in order to provide adequately public facilities and services.

The County is in the process of developing their Comprehensive Land Use and Transportation Plan, but it is not complete at this time. On the following pages a draft land use map for the county as well as maps from selected communities are included to provide a graphic representation of planning efforts in the County:

St. Clair County Multi-Hazard Mitigation Plan

Plate 3.4 St. Clair County Land Use



Existing Land Use

| Land Use | Acreege | Percent Total |
|-----------------|----------------|---------------|
| Agriculture | 291,273 | 67.5% |
| Park/Open Space | 16,156 | 3.7% |
| Residential | 52,168 | 12.1% |
| Commercial | 12,661 | 2.9% |
| Industrial | 3,625 | 0.8% |
| Transportation | 1,429 | 0.3% |
| Government | 16,170 | 3.7% |
| Vacant | 15,375 | 3.6% |
| Other/No Data | 5,860 | 1.4% |
| Estimated ROW | 16,540 | 3.8% |
| Total | 431,257 | 100% |

| | | |
|----------------------|---------|-------|
| Incorporated Areas | 105,713 | 24.5% |
| Unincorporated Areas | 325,544 | 75.5% |

DRAFT



0 2.5 5 Miles

St. Clair County, Illinois
Comprehensive Plan Update - 2008

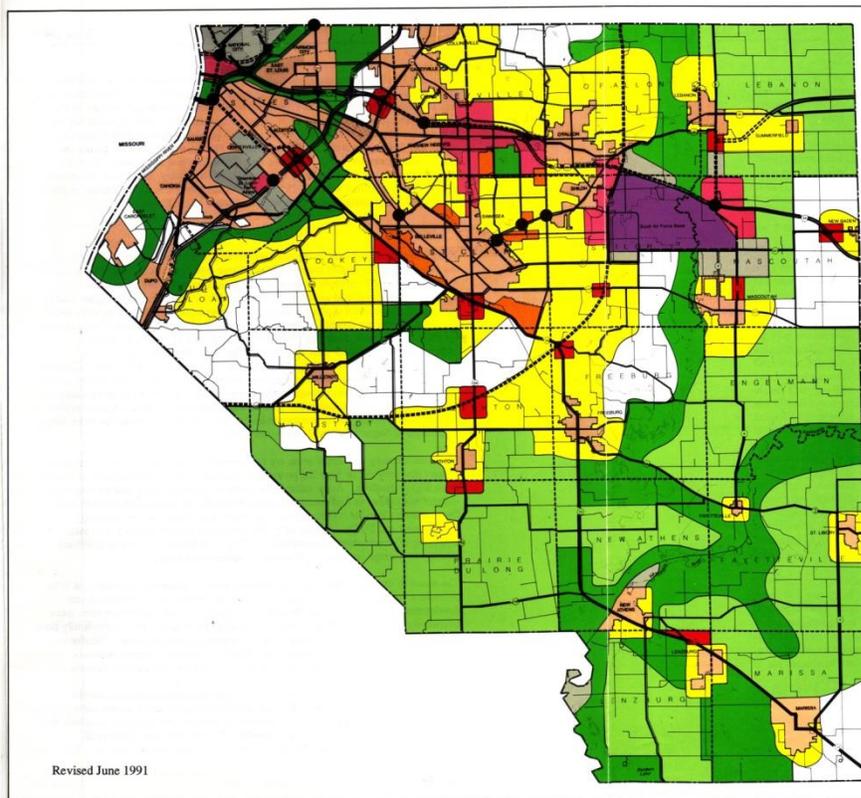


FIGURE 19

**Land Use/
Circulation Plan**

COMPREHENSIVE PLAN
ST. CLAIR COUNTY, ILLINOIS

LEGEND

- Land Use Plan**
- Agricultural Preservation
 - Recreation/Conservation
 - Rural Residential
 - Low-Intensity Residential
 - Moderate-Intensity Residential
 - Community Commercial
 - Regional Commercial
 - Industrial
 - Incorporated Community
 - Scott Joint-Use Area

- Circulation Plan**
- Existing Proposed/Improved
- Freeway
 - Major Roads
 - Area Service Roads
 - Collector Roads
 - Intersection/Interchange Improvements

Sources: St. Clair County General Highway Map, U.S. Department of Transportation, Federal Highway Administration, 1971.

SCALE IN MILES



0 3 6



Revised June 1991

Plate 3.6 City of O'Fallon Environmental Master Plan

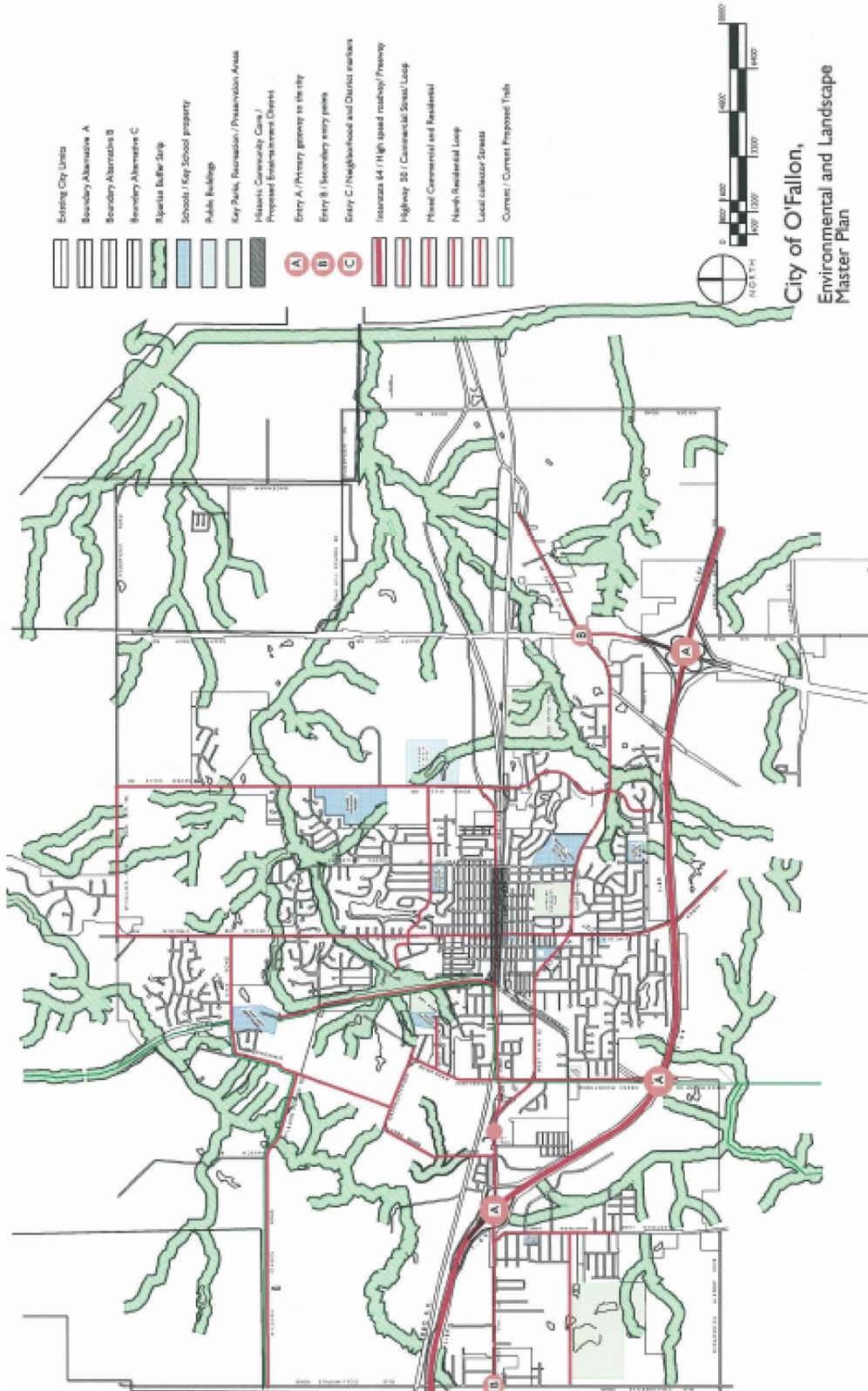


Plate 3.7 O'Fallon Comprehensive Plan

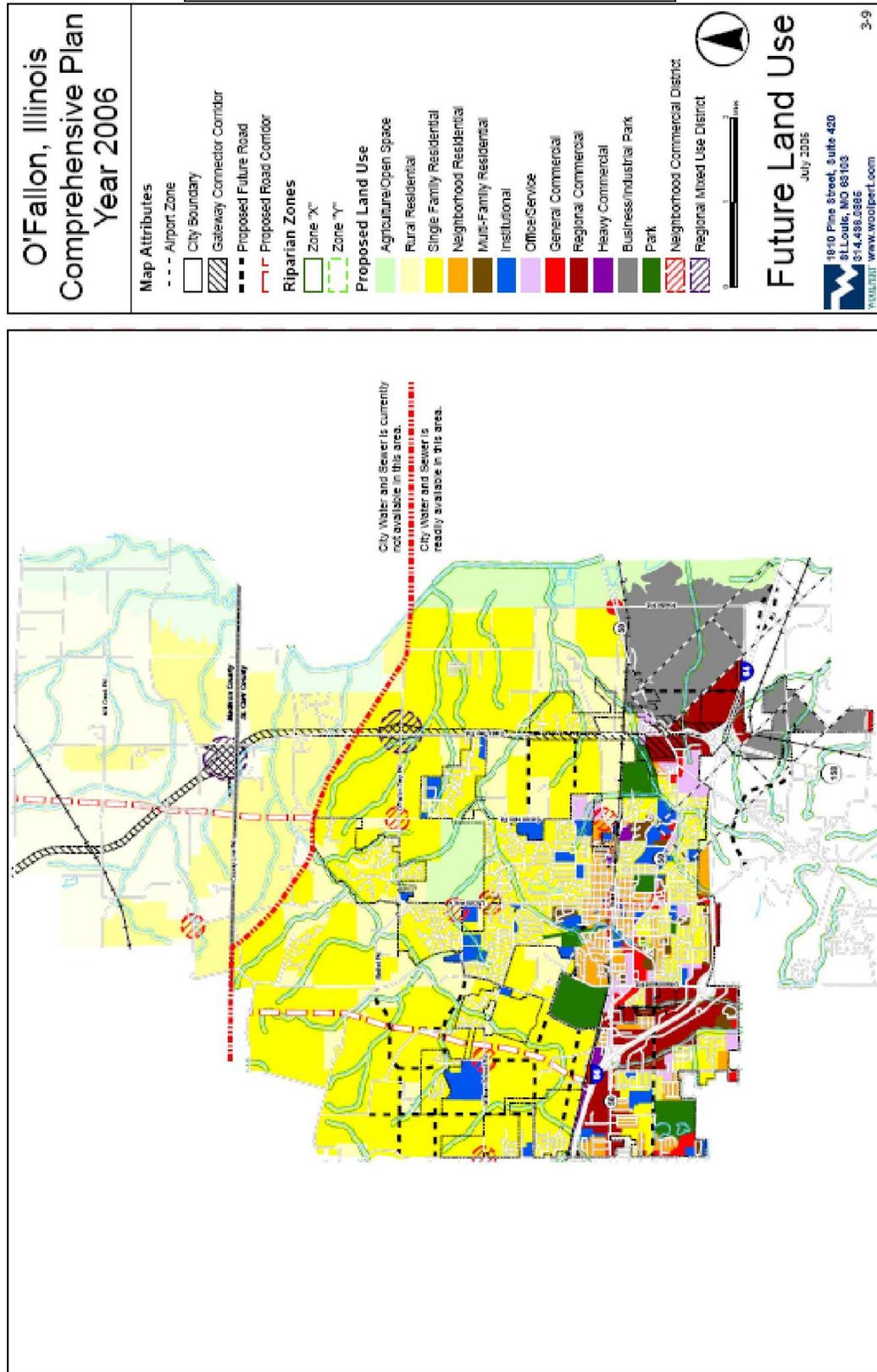
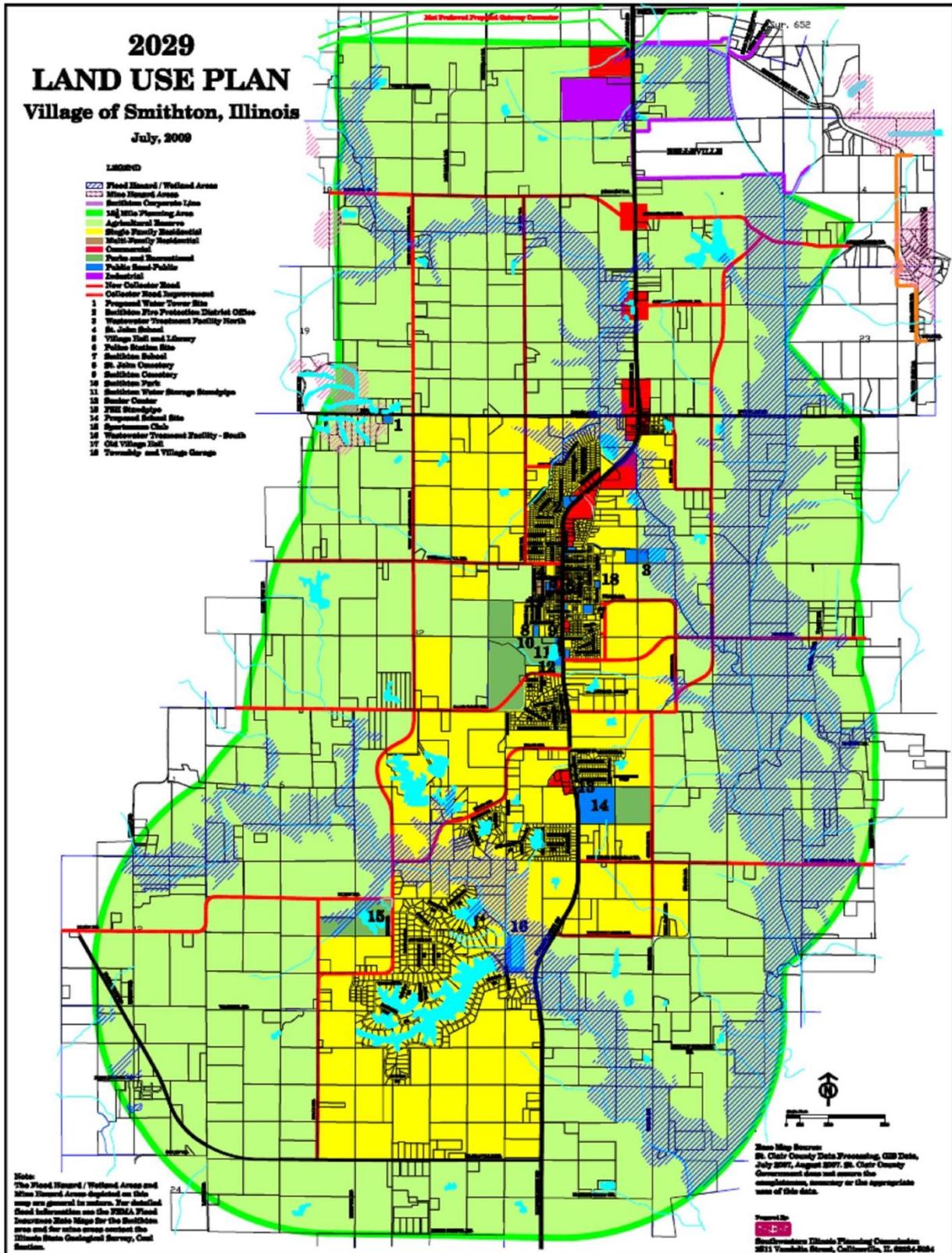
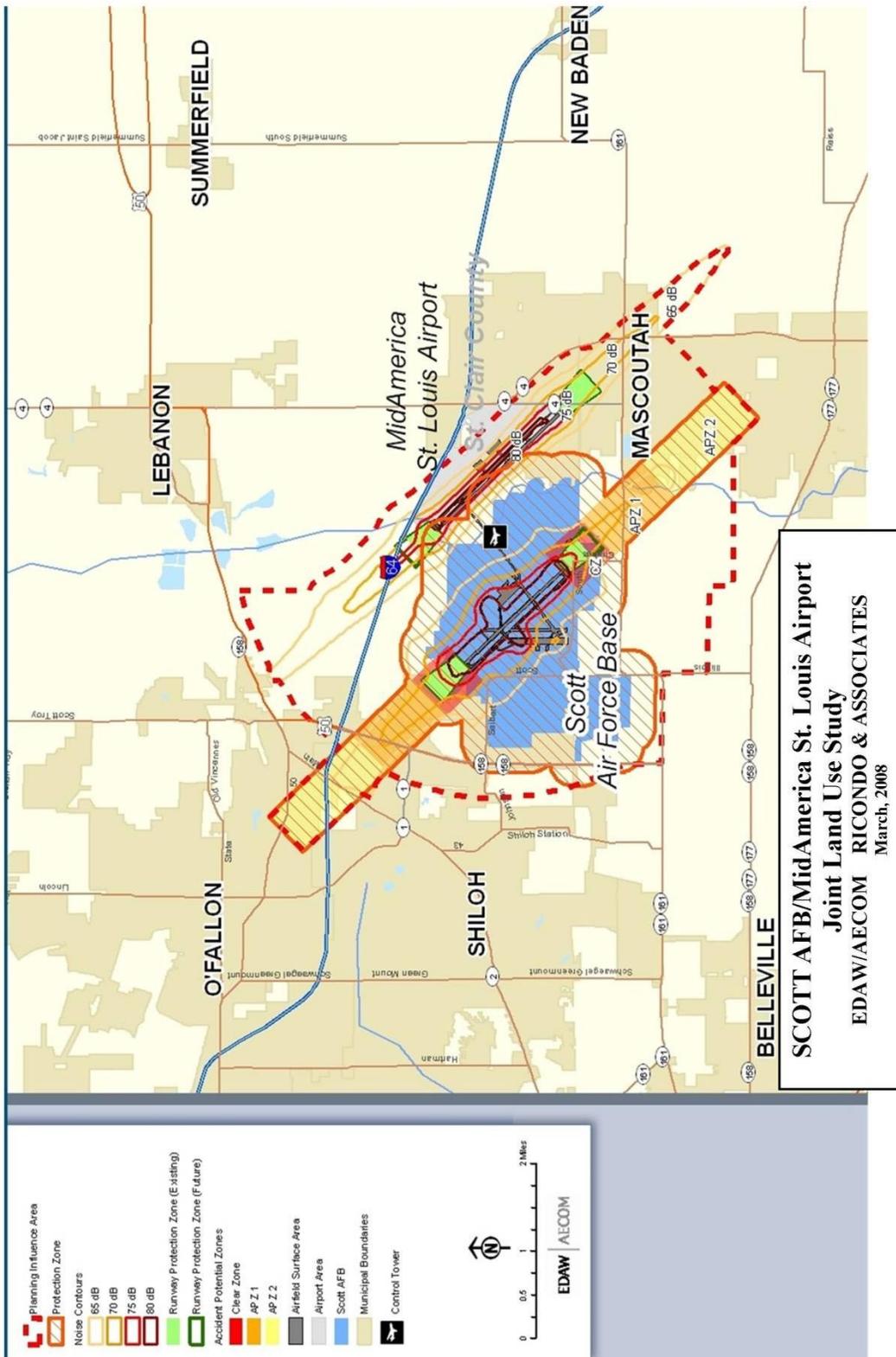


Plate 3.8 Smithton Land Use Plan



**Plate 3.9 Scott AFB/MidAmerica Airport
Joint Land Use Study (Preliminary)**



**SCOTT AFB/MidAmerica St. Louis Airport
Joint Land Use Study**
EDAW/AECOM RICONDO & ASSOCIATES
March, 2008

St. Clair County Multi-Hazard Mitigation Plan

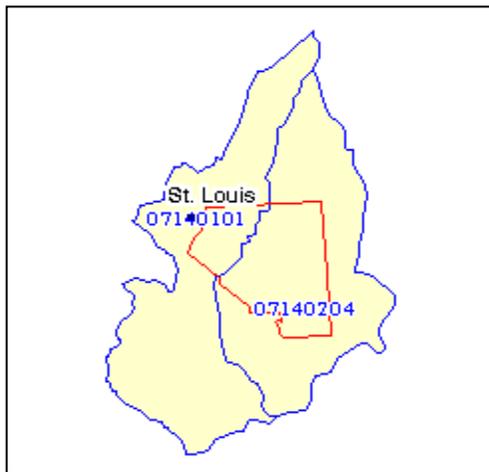
3.7 Major Lakes, Rivers and Watersheds

St. Clair County is drained by two rivers: the Mississippi River and the Kaskaskia; and two streams: Silver Creek and Richland Creek. In addition, the Cahokia Diversion Canal and the Harding Ditch and Canal provide assistance in drainage through the American Bottoms floodplain, where runoff originating from the bluff areas to east of the American Bottoms contribute markedly to flooding, ponding, and soil wetness problems. As a result, levees are subject to over-topping, under-seepage, and adjacent areas are subject to inundation.

In 2007 FEMA and the U.S. Army Corps of Engineers announced that five levees, including the Metro-East Sanitary District levee and the Prairie du Pont levee in the Metro East will need to be decertified until certain deficiencies can be corrected. Specifically the problem is under seepage. Water coming underneath the levees that makes sandbagging a necessity can cause levee failure over time. Most of the American Bottoms is at risk.

A watershed is the area of land where all of the water that is under it or drains off of it goes into the same place according to the Environmental Protection Agency. The Watersheds in St. Clair County are the streams and tributaries of the Mississippi and Kaskaskia Rivers.

Plate 3.11 St. Clair County Watersheds



Source: US EPA, http://cfpub.epa.gov/surf/county.cfm?fips_code=17163

Table 3-4: Watersheds

| Watershed Name | HUC Code |
|---|----------|
| Cahokia-Joachim, Illinois, Missouri | 07140101 |
| Lower Kaskaskia | 07140204 |
| Source: U.S. Geological Survey HUC14 Watersheds, 2006 | |

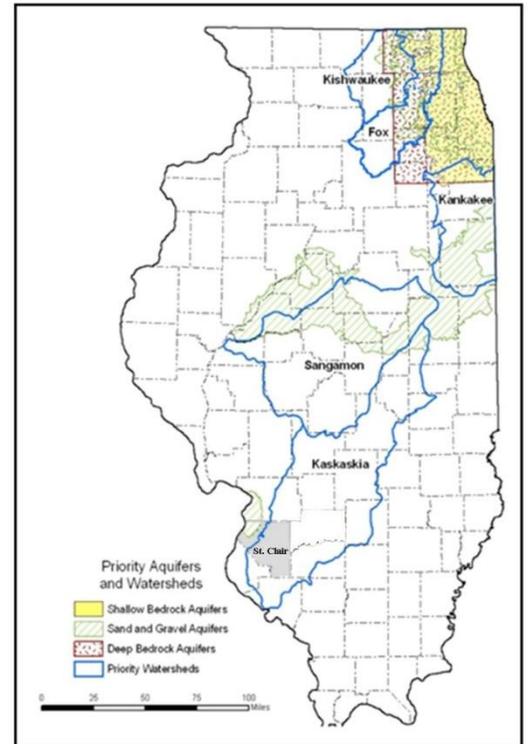
St. Clair County Multi-Hazard Mitigation Plan

The larger streams, particularly Silver Creek and Richland Creek, draining the upland area generally have low gradients that tend to aggravate flooding conditions during periods of excessive rainfall. In the extreme southwestern section of St. Clair County, adjacent to the bluffs, irregular “sinkhole”, or Karst, topography is found. The surface contains numerous depression and pits or, “sinkholes”, which are underlain by soluble limestone formations. Surface drainage in this area is channeled to underlying formations. The alluvial soils, and soils developed on terrace positions, are subject to flooding or ponding.

The frequency of flooding varies considerable within the county, and the mere presence of flooding hazard presents a severe limitation on choice of land use. The large alluvial area along the Mississippi River has an extensive levee system installed which protects this area from Mississippi River flood waters. The remaining creeks and rivers in the county are above flood stage several times during the year. This frequency of flooding is a severe hazard to any land use.

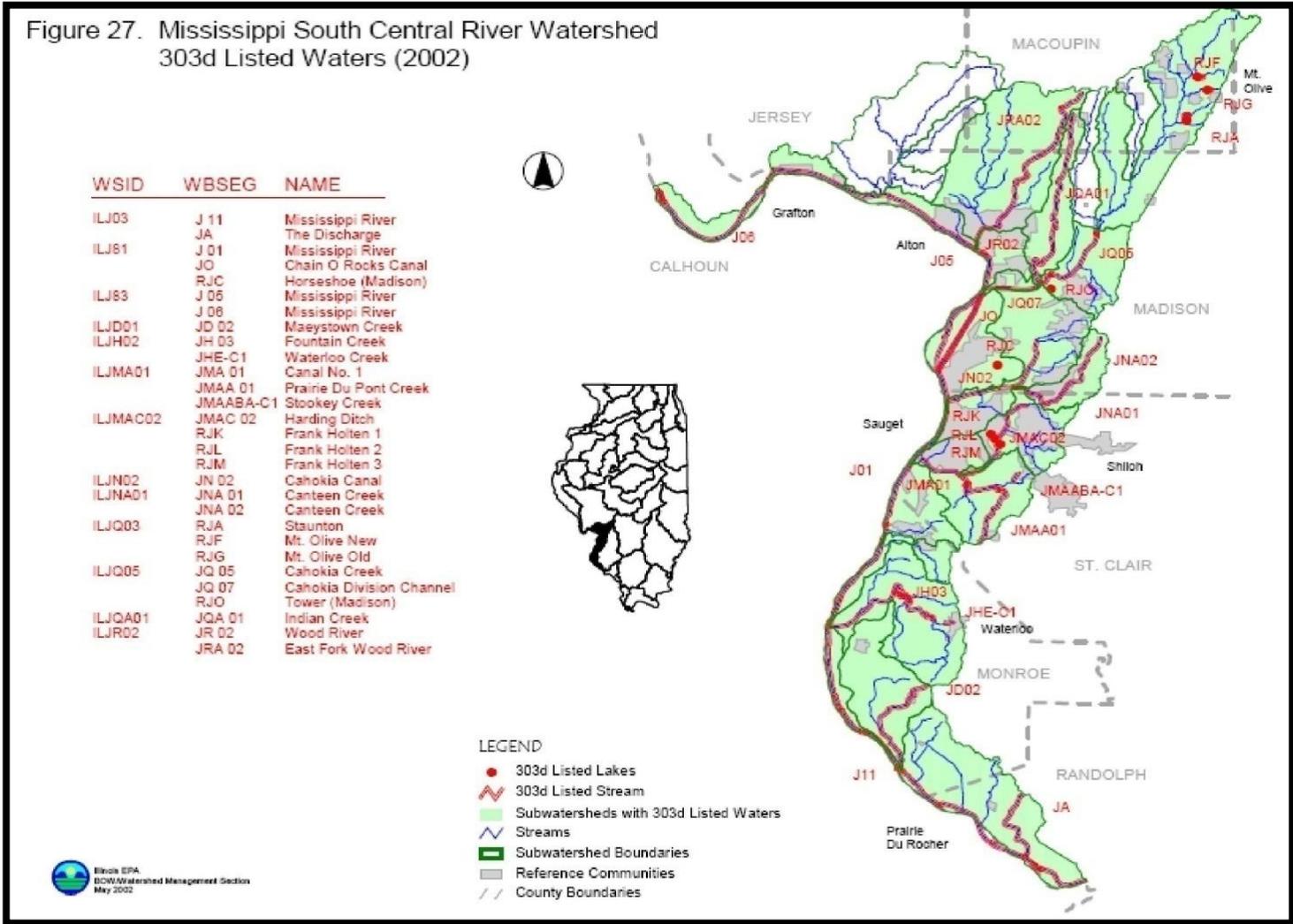
The Illinois EPA, in its 1996 fact sheet on water quality describes the “Mississippi South Central River Watershed” as including, “The Mississippi River and its tributaries between the lower Illinois River Watershed and the mouth of the Kaskaskia River.” The illustration from this report is included on the following page, and graphically depicts the extent of the watershed.

Plate 3.12 Kaskaskia River Watershed



Source: Illinois State Water Survey

Plate 3.13 Mississippi Central River Watershed



Source: Illinois EPA

Section 4 - Risk Assessment

The goal of mitigation is to reduce the future impacts of a hazard including loss of life, property damage, disruption to local and regional economies, and the expenditure of public and private funds for recovery. Sound mitigation must be based on sound risk assessment. Risk assessment involves quantifying the potential loss resulting from a disaster by assessing the vulnerability of buildings, infrastructure, and people. This assessment identifies the characteristics and potential consequences of a disaster, how much of the community could be affected by a disaster, and the impact on community assets. A risk assessment consists of three components: hazard identification, vulnerability analysis, and risk analysis.

4.1 Hazard Identification/Profile

4.1.1 Existing Plans

The previous St. Clair County Comprehensive Emergency Management Plan (CEMP) did not contain a risk analysis. Additional local planning documents were reviewed to identify historical hazards and help identify risk. To facilitate the planning process, DFIRM maps were used for the flood analysis.

4.1.2 National Hazard Records

In addition to these identified hazards, the MHMP planning committee reviewed the list of natural hazards prepared by FEMA. To assist the planning team, historical storm event data was compiled from the National Climatic Data Center (NCDC; <http://www4.ncdc.noaa.gov/cgi-win/wwcgi.dll>). This NCDC data included 616 reported events in St. Clair County between May 24, 1952 and April 1, 2009. A summary table of events related to each hazard type is included in the hazard profile sections that follow. List of the events, including additional sources that identify specific occurrences, are included as Appendix D. In addition to NCDC data, Storm Prediction Center (SPC) data associated with tornadoes, strong winds, and hail were plotted using SPC recorded latitude and longitude. These events are plotted and included as Appendix E. The list of NCDC hazards is included in Table 4-1.

Table 4-1: Climatic Data Center Historical Hazards

| Hazard |
|----------------------|
| Tornadoes |
| Severe Thunderstorms |
| Drought/Extreme Heat |
| Winter Storms |
| Flood/Flash flood |

4.1.2.2 FEMA Disaster Information

Since 1965 there have been 55 Federal Disaster Declarations for the state of Illinois. Emergency declarations allow states access to FEMA funds for Public Assistance (PA); disaster declarations allow for even more PA funding including Individual Assistance (IA) and the Hazard Mitigation

St. Clair County Multi-Hazard Mitigation Plan

Grant Program (HMGP). St. Clair County has received Federal aid for 14 declared disasters since 1969. Figure 4-1 depicts the disasters and emergencies that have been declared for St. Clair County within the past decade. Table 4-2 lists more specific information for each declaration.

Figure 4-1: FEMA-Declared Emergencies and Disasters in Illinois (1965-2009)

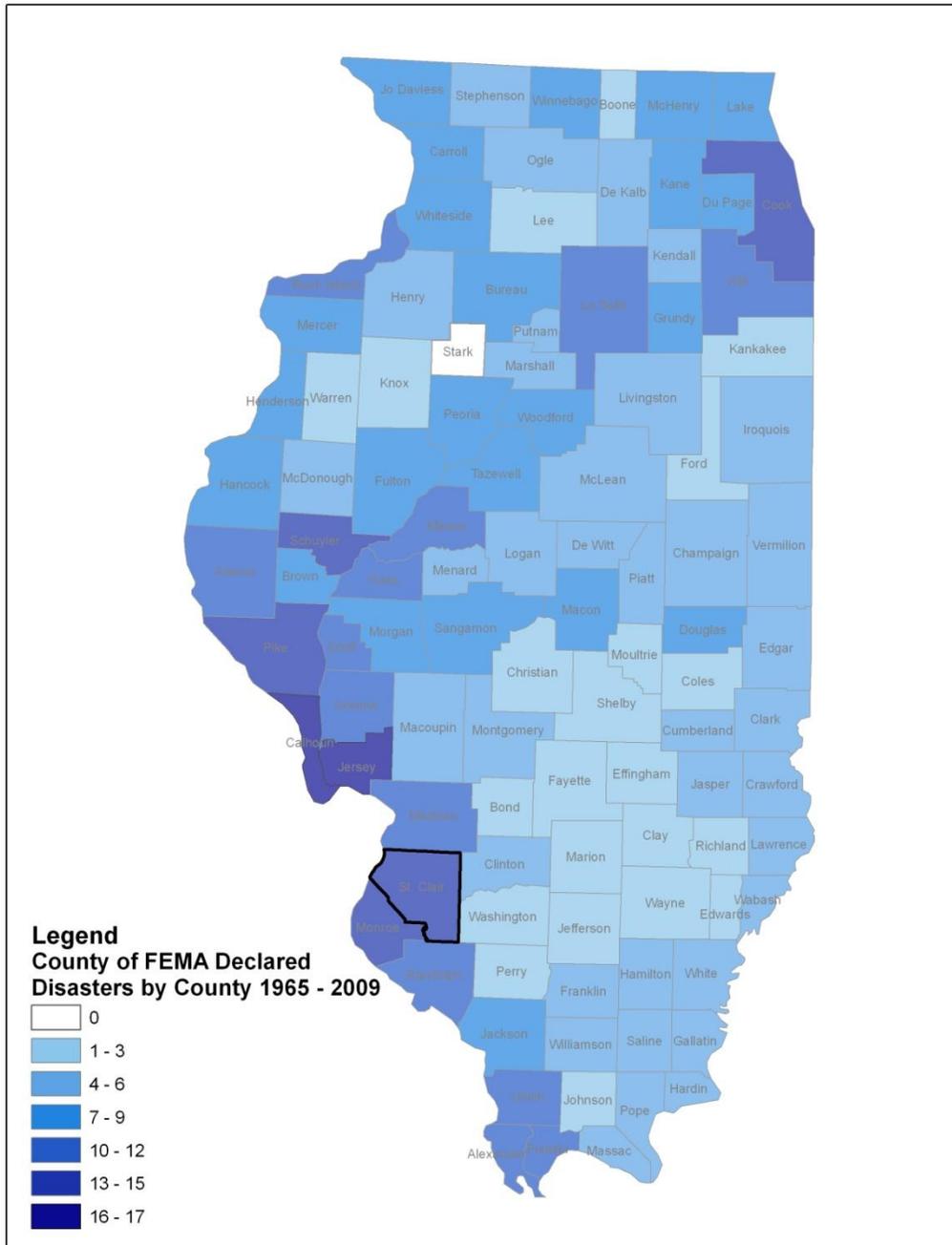


Table 4-2: FEMA-Declared Emergencies in St. Clair County (1969-2009)

| Date of Incident | Declaration Number | Date of Declaration | Disaster Description | Type of Assistance |
|------------------|--------------------|---------------------|--|--------------------|
| | 242 | 6/5/1968 | Severe Storms, Flooding, and Tornadoes | |
| | 276 | 8/30/1969 | Flooding | |
| | 373 | 4/27/1973 | Severe Storms, Flooding | |
| | 583 | 1/16/1979 | Severe Storms, Flooding | |
| 12/2/1982 | 674 | 12/17/1982 | Severe Flooding, Torrential Rains | |
| 4/17/1983 | 684 | 5/16/1983 | Tornado, Flooding, Unseasonable Freezing Temperatures | |
| 5/1/1983 | 776 | 5/3/1983 | Flash Flooding | |
| 6/7/1993 | 997 | 7/7/1993 | Continued Riverine and Flash Flooding | |
| 4/11/1994 | 1025 | 5/15/1994 | Torrential Rain, Thunderstorms | |
| 5/13/1995 | 1053 | 5/18/1995 | Severe Thunderstorms, High Winds, Torrential Rains, Flash Flooding | |
| 4/27/1996 | 1112 | 4/29/1996 | Severe Thunderstorms, Torrential Rains, Flooding | |
| 4/28/2002 | 1416 | 4/29/2002 | Flooding | IA and PA |
| | 1681 | 2/9/2007 | Severe Winter Storm | PA |
| 6/1/2008 | 1771 | 6/24/2008 | Severe Storms and Flooding | IA and PA |

4.1.3 Planning Team

During Meeting #2, which occurred on June 18th, 2009, the planning team developed and ranked a list of hazards that affect the county. The team identified 1) severe thunderstorms with tornadoes, 2) winter storms, 3) earthquakes, 4) flooding which occur on an annual basis usually during the spring, and 5) extreme heat. The plan also identified St. Clair County’s principal technological hazards (in order of likelihood): 1) hazardous material release from fix facilities or during transportation, 2) levee failure, and 3) fire\explosion. Several incorporated communities in the County also felt ground subsidence related to underground mining was a significant hazard facing their community. However, the planning team as a whole did not feel ground subsidence was a significant hazard to the entire county. Because of the concern of the incorporated communities which are undermined, the potential impacts of ground subsidence are discussed in the vulnerability section (4.2) below.

4.1.4 Hazard Ranking Methodology

Based on planning team input, national datasets, and existing plans, Table 4-3 lists the hazards St. Clair County will address in this multi-hazard mitigation plan. In addition, these hazards ranked the highest based on the Risk Priority Index discussed in section 4.1.5.

Table 4-3: Planning Team Hazard List

| Hazard |
|----------------------------|
| Tornado |
| Winter Storms |
| Earthquakes |
| Hazardous Material Release |
| Floods |
| Levee or Dam Failure |
| Extreme Heat |
| Severe Thunderstorms |
| Ground Subsidence |
| Fire/Explosion |

4.1.5 Calculating the Risk Priority Index

The first step in determining the Risk Priority Index (RPI) was to have the planning team members generate a list of hazards which have befallen or could potentially befall their community. Next, the planning team members were asked to assign a likelihood rating based on the criteria and methods described in the following table. Table 4-4 displays the probability of the future occurrence ranking. This ranking was based upon previous history and the definition of hazard. Using the definitions given, the likelihood of future events is "Quantified" which results in the classification within one of the four "Ranges" of likelihood.

Table 4-4: Future Occurrence Ranking

| Probability | Characteristics |
|--------------------------|---|
| 4 - <i>Highly Likely</i> | Event is probable within the calendar year. Event has up to 1 in 1 year chance of occurring. (1/1=100%) History of events is greater than 33% likely per year. |
| 3 - <i>Likely</i> | Event is probable within the next three years. Event has up to 1 in 3 years chance of occurring. (1/3=33%) History of events is greater than 20% but less than or equal to 33% likely per year. |
| 2 - <i>Possible</i> | Event is probable within the next five years. Event has up to 1 in 5 years chance of occurring. (1/5=20%) History of events is greater than 10% but less than or equal to 20% likely per year. |
| 1 - <i>Unlikely</i> | Event is possible within the next ten years. Event has up to 1 in 10 years chance of occurring. (1/10=10%) History of events is less than or equal to 10% likely per year. |

Next, planning team members were asked to consider the potential magnitude/severity of the hazard according to the severity associated with past events of the hazard. Table 4-5 gives four classifications of magnitude/severity.

Table 4-5: Hazard Magnitude

| Magnitude/Severity | Characteristics |
|-------------------------|--|
| 8 - <i>Catastrophic</i> | Multiple deaths. Complete shutdown of facilities for 30 or more days. More than 50% of property is severely damaged. |
| 4 - <i>Critical</i> | Injuries and/or illnesses result in permanent disability. Complete shutdown of critical facilities for at least 14 days. More than 25% of property is severely damaged. |
| 2 - <i>Limited</i> | Injuries and/or illnesses do not result in permanent disability. Complete shutdown of critical facilities for more than seven days. More than 10% of property is severely damaged. |
| 1 - <i>Negligible</i> | Injuries and/or illnesses are treatable with first aid. Minor quality of life lost. Shutdown of critical facilities and services for 24 hours or less. Less than 10% of property is severely damaged. |

Finally, the RPI was calculated by multiplying the probability by the magnitude/severity of the hazard. Using these values, the planning team member where then asked to rank the hazards. Table 4-6 identifies the RPI and ranking for each hazard facing St. Clair County.

Table 4-6: St. Clair County Hazards (RPI)

| Hazard | Probability | Magnitude/Severity | Risk Priority Index | Rank |
|-----------------------------------|-------------------|--------------------|---------------------|------|
| Tornado | 4 - Highly Likely | 4 - Critical | 16 | 1 |
| Winter Storms | 4 - Highly Likely | 4 - Critical | 16 | 2 |
| Earthquakes | 2 - Possible | 8 - Catastrophic | 16 | 3 |
| Hazardous Material Transportation | 4 - Likely | 2 - Limited | 8 | 4 |
| Flooding | 4 - Likely | 2 - Negligible | 8 | 5 |
| Levee or Dam Failure | 2 - Possible | 4 - Critical | 8 | 6 |
| Extreme Heat | 3 - Likely | 2 - Limited | 6 | 7 |
| Severe Thunderstorms | 4 - Likely | 1 - Negligible | 4 | 8 |
| Fire/Explosion | 1 -Unlikely | 1 - Negligible | 8 | 9 |

4.1.6 Jurisdictional Hazard Ranking

Because the jurisdictions in St. Clair County differ in their susceptibilities to certain hazards—for example, village of New Athens located along the Kaskaskia River is more likely to experience significant flooding than the village of New Baden which is located a substantial distance away from any substantial stream or river which could potentially cause significant flooding—the

St. Clair County Multi-Hazard Mitigation Plan

hazards identified by the planning team were ranked by planning team members for their respective jurisdictions using the methodology outlined in Section 4.1.5. Some communities were not represented at the hazard ranking meeting (meeting 2). For these communities the hazards identified by the planning team were ranked by SIUC. The SIUC rankings were based on input from the other planning team members, available historical data, and the hazard modeling results described within this hazard mitigation plan. During the five-year review of the plan, this table will be updated by representatives from the planning team to ensure these jurisdictional rankings accurately reflect each community's assessment of these hazards. Table 4-7 lists the jurisdictions and their respective hazard rankings (Ranking 1 being the highest concern).

Table 4-7: Hazard Rankings by Jurisdiction

| Jurisdiction | Hazard | | | | | | | | | |
|------------------|---------|--------|-------------|----------------|--------|---------------|-------------|------------------|---------------------|--------------|
| | Tornado | HAZMAT | Earth-quake | Thunder-storms | Floods | Winter Storms | Sub-sidence | Fire / Explosion | Levee / Dam Failure | Extreme Heat |
| Alorton* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| Belleville | 1 | 7 | 5 | 3 | 9 | 4 | 6 | 2 | NA | 8 |
| Brooklyn | 4 | 1 | 8 | 5 | 2 | 3 | NA | NA | 7 | 6 |
| Cahokia | 1 | 4 | 3 | 8 | 5 | 2 | NA | 9 | 6 | 7 |
| Caseyville* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| Centreville* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| Collinsville* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| Columbia* | 1 | 4 | 3 | 7 | 9 | 2 | 5 | 10 | 8 | 6 |
| Dupo | 5 | 3 | 6 | 1 | 2 | 8 | NA | 9 | 4 | 7 |
| East Carondelet* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| East St. Louis* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| Fairmont City | 3 | 1 | 8 | 6 | 2 | 5 | NA | 7 | 4 | NA |
| Fairview Heights | 1 | 7 | 3 | 5 | 9 | 2 | NA | 4 | 8 | 6 |
| Fayetteville* | 1 | 4 | 3 | 5 | 9 | 2 | NA | 7 | 8 | 6 |
| Freeburg* | 1 | 4 | 3 | 8 | 5 | 2 | 9 | NA | 6 | 7 |
| Lebanon* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| Lenzburg | 3 | 5 | 9 | 1 | 8 | 2 | 6 | 7 | 10 | 4 |
| Madison* | 1 | 4 | 3 | 8 | 5 | 2 | NA | 9 | 6 | 7 |
| Marissa* | 1 | 4 | 3 | 9 | 5 | 2 | 8 | 10 | 6 | 7 |
| Mascoutah | 1 | 4 | 5 | 2 | 7 | 6 | NA | NA | NA | 3 |
| Millstadt | 2 | 4 | 5 | 1 | 7 | 3 | 6 | NA | NA | NA |
| New Athens* | 1 | 4 | 3 | 8 | 5 | 2 | NA | 9 | 6 | 7 |
| New Baden* | 1 | 4 | 3 | 6 | 7 | 2 | 10 | 8 | 9 | 5 |
| O'Fallon | 1 | 2 | 3 | 4 | 8 | 5 | NA | 7 | 9 | 6 |
| Sauget* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| Shiloh | 2 | 9 | 7 | 4 | 8 | 3 | 1 | 6 | NA | 5 |
| Smithton | 1 | 8 | 4 | 3 | 5 | 2 | NA | 7 | NA | 6 |
| St. Libory* | 1 | 4 | 3 | 6 | 5 | 2 | 10 | 9 | 8 | 7 |
| Summerfield* | 1 | 4 | 3 | 6 | 5 | 2 | 8 | 9 | 10 | 7 |
| Swansea | 1 | 4 | 7 | 2 | 6 | 3 | 8 | 5 | NA | NA |
| Washington Park | 3 | 7 | 8 | 4 | 1 | 2 | NA | NA | 6 | 5 |

* Ranked by SIUC
NA = Not applicable

4.1.7 GIS and HAZUS-MH

The third step in this assessment is the risk analysis, which quantifies the risk to the population, infrastructure, and economy of the community. Where possible, the hazards were quantified using GIS analyses and HAZUS-MH. This process reflects a level two approach to analyzing hazards as defined for HAZUS-MH. The approach includes substitution of selected default data with local data. Level two analysis significantly improves the accuracy of the model predictions.

HAZUS-MH generates a combination of site-specific and aggregated loss estimates depending upon the analysis options that are selected and upon the input that is provided by the user. Aggregate inventory loss estimates, which include building stock analysis, are based upon the assumption that building stock is evenly distributed across census blocks/tracts. Therefore, it is possible that overestimates of damage will occur in some areas while underestimates will occur in other areas. With this in mind, total losses tend to be more reliable over larger geographic areas than for individual census blocks/tracts. It is important to note that HAZUS-MH is not intended to be a substitute for detailed engineering studies. Rather, it is intended to serve as a planning aid for communities interested in assessing their risk to flood-, earthquake-, and hurricane-related hazards. This documentation does not provide full details on the processes and procedures completed in the development of this project. It is only intended to highlight the major steps that were followed during the project.

Site-specific analysis is based upon loss estimations for individual structures. For flooding, analysis of site-specific structures takes into account the depth of water in relation to the structure. HAZUS-MH also takes into account the actual dollar exposure to the structure for the costs of building reconstruction, content, and inventory. However, damages are based upon the assumption that each structure falls into a structural class, and that structures in each class will respond in similar fashion to a specific depth of flooding. Site-specific analysis is also based upon a point location rather than a polygon; therefore the model does not account for the percentage of a building that is inundated. These assumptions suggest that the loss estimates for site-specific structures as well as for aggregate structural losses need to be viewed as approximations of losses that are subject to considerable variability rather than as exact engineering estimates of losses to individual structures.

The following events were analyzed. The parameters for these scenarios were created using GIS, HAZUS-MH, and historical information to predict which communities would be at risk.

Using HAZUS-MH

1. 100-year overbank flooding without levee failure along the Mississippi River
2. 100- year overbank flooding with levee failure along the Mississippi River
3. Earthquake scenarios

Using GIS

1. Tornado
2. Hazardous material release
3. Ground Subsidence

4.2 Vulnerability Assessment

4.2.1 Asset Inventory

4.2.1.1 Processes and Sources for Identifying Assets

The HAZUS-MH data is based on best available national data sources. The initial step involved updating the default HAZUS-MH data using State of Illinois data sources. At Meeting #1, the planning team members were provided with a plot and report of all HAZUS-MH critical facilities. The planning team took GIS data provided by SIU-Polis, verified the datasets using local knowledge, and allowed SIU-Polis to use their local GIS data for additional verification. SIU-Polis GIS analysts made these updates and corrections to the HAZUS-MH data tables prior to performing the risk assessment. These changes to the HAZUS-MH inventory allow a level two analysis. This update process improved the accuracy of the model predictions.

The default HAZUS-MH data has been updated as follows:

- The HAZUS-MH defaults, critical facilities, and essential facilities have been updated based on most recent available data sources. Critical and essential point facilities have been reviewed, revised, and approved by local subject matter experts at each county.
- The essential facility updates (schools, medical care facilities, fire stations, police stations, and EOCs) have been applied to the HAZUS-MH model data. HAZUS-MH reports of essential facility losses reflect updated data.

St. Clair County provided SIUC with parcel boundaries and county Assessor records. Records without improvements were deleted. The parcel boundaries were converted to parcel points located in the centroids of each parcel boundary. Each parcel point was linked to an Assessor record based upon matching parcel numbers. The generated building inventory points represent the approximate locations (within a parcel) of building exposure.

- The aggregate building inventory tables used in this analysis have not been updated. Default HAZUS-MH model data was used for the earthquake.
- For the flood analysis, user-defined facilities were updated from the building inventory information provided by St. Clair County.

Parcel-matching results for St. Clair County are listed in Table 4-8.

Table 4-8: Parcel-Matching for St. Clair County

| Data Source | Count |
|------------------------------------|---------|
| Assessor Records | 152,643 |
| County-Provided Parcels | 152,643 |
| Assessor Records with Improvements | 98,354 |
| Matched Parcel Points | 98,340 |

St. Clair County Multi-Hazard Mitigation Plan

- The building exposure for flooding, tornado, and HAZMAT is determined from the Assessor records. It is assumed that the population and the buildings are located at the centroid of the parcel.
- The building exposure for earthquake used HAZUS-MH default data.
- The algorithm used to match county-provided parcel point locations with the Assessor records is not perfect. The results in this analysis reflect matched parcel records only. The parcel-matching results for St. Clair County are included in Table 4-8.
- Population counts are based upon 2.5 persons per household. Only residential occupancy classes are used to determine the impact on the local population. If the event were to occur at night, it would be assumed that people are at home (not school, work, or church).
- The analysis is restricted to the county boundaries. Events that occur near the county boundaries do not contain damage assessments from adjacent counties.

4.2.1.2 Essential Facilities List

Table 4-9 identifies the essential facilities that were added or updated for the analysis. A complete list of the critical facilities is included as Appendix F. A map of all the critical facilities is included as Appendix G.

Table 4-9: Critical Facilities List

| Facility | Number of Facilities |
|-----------------------------|-----------------------------|
| Care Facilities | 26 |
| Emergency Operation Centers | 4 |
| Fire Stations | 30 |
| Police Stations | 21 |
| Schools | 149 |

4.2.1.3 Facility Replacement Costs

Facility replacement costs and total building exposure are identified in Table 4-10. The replacement costs have not been updated by local data. Table 4-10 also includes the estimated number of buildings within each occupancy class.

Table 4-10: Building Exposure (default HAZUS-MH) for St. Clair County

| General Occupancy | Estimated Total Buildings | Total Building Exposure (X 1000) |
|--------------------------|----------------------------------|---|
| Agricultural | 421 | \$ 72,576 |
| Commercial | 4,615 | \$ 2,440,864 |
| Education | 182 | \$ 366,747 |
| Government | 176 | \$ 134,036 |
| Industrial | 1,107 | \$ 627,720 |
| Religious/Non-Profit | 568 | \$ 445,649 |
| Residential | 105,149 | \$ 13,355,913 |
| Total | 112,218 | \$ 17,443,505 |

4.3 Future Development

As the county’s population continues to grow, the residential and urban areas will extend further into the county, placing more pressure on existing transportation and utility infrastructure while increasing the rate of farmland conversion; St. Clair County will address specific mitigation strategies in Section 5 to alleviate such issues.

Because St. Clair County is vulnerable to a variety of natural and technological threats, the county government—in partnership with state government—must make a commitment to prepare for the management of these types of events. St. Clair County is committed to ensuring that county elected and appointed officials become informed leaders regarding community hazards so that they are better prepared to set and direct policies for emergency management and county response.

4.4 Hazard Profiles

4.4.1 Tornado Hazard

Hazard Definition for Tornado Hazard

Tornadoes pose a great risk to the State of Illinois and its citizens. Tornadoes historically have occurred during any month of the year. The unpredictability of tornadoes makes them one of Illinois’ most dangerous hazards. Their extreme winds are violently destructive when they touch down in the region’s developed and populated areas. Current estimates place the maximum velocity at about 300 mph, but higher and lower values can occur. A wind velocity of 200 mph will result in a wind pressure of 102.4 pounds per square foot of surface area, a load that exceeds the tolerance limits of most buildings. Considering these factors, it is easy to understand why tornadoes can be so devastating for the communities they hit.

Tornadoes are defined as violently-rotating columns of air extending from thunderstorms to the ground. Funnel clouds are rotating columns of air not in contact with the ground. However, the violently-rotating column of air can reach the ground very quickly and become a tornado. If the funnel cloud picks up and blows around debris, it has reached the ground and is a tornado.

Tornadoes are classified according to the Fujita tornado intensity scale. The tornado scale ranges from low intensity F0, with effective wind speeds of 40 to 70 mph, to F5 tornadoes with effective wind speeds of over 260 mph. The Fujita intensity scale is included in Table 4-11.

Table 4-11: Fujita Tornado Rating

| Fujita Number | Estimated Wind Speed | Path Width | Path Length | Description of Destruction |
|----------------------|-----------------------------|-------------------|--------------------|--|
| 0 (Gale) | 40–72 mph | 6–17 yards | 0.3–0.9 miles | Light damage, some damage to chimneys, branches broken, sign boards damaged, shallow-rooted trees blown over. |
| 1 (Moderate) | 73–112 mph | 18–55 yards | 1.0–3.1 miles | Moderate damage, roof surfaces peeled off, mobile homes pushed off foundations, attached garages damaged. |
| 2 (Significant) | 113–157 mph | 56–175 yards | 3.2–9.9 miles | Considerable damage, entire roofs torn from frame houses, mobile homes demolished, boxcars pushed over, large trees snapped or uprooted. |
| 3 (Severe) | 158–206 mph | 176–566 yards | 10–31 miles | Severe damage, walls torn from well-constructed houses, trains overturned, most trees in forests uprooted, heavy cars thrown about. |
| 4 (Devastating) | 207–260 mph | 0.3–0.9 miles | 32–99 miles | Complete damage, well-constructed houses leveled, structures with weak foundations blown off for some distance, large missiles generated. |
| 5 (Incredible) | 261–318 mph | 1.0–3.1 miles | 100–315 miles | Foundations swept clean, automobiles become missiles and thrown for 100 yards or more, steel-reinforced concrete structures badly damaged. |

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Previous Occurrences for Tornado Hazard

There have been several occurrences of tornadoes within St. Clair County during recent decades. The NCDC database reported 35 tornadoes/funnel clouds in St. Clair County since 1952. These tornadoes have been attributed with 12 deaths, 124 injuries, and \$34.2 million dollars in property damage within St. Clair and adjacent counties. As of April 2009, the most recent tornado touchdown occurred on July 21, 2006. Formed in St. Clair County north of Summerfield and moved east southeast into Clinton County near Trenton. In St. Clair County damage was limited to downed and severed trees. St. Clair County tornadoes recorded in the NCDC database are identified in Table 4-12. Additional details for NCDC events are included in Appendix D.

Table 4-12: St. Clair County Tornadoes*

| Date | Magnitude | Deaths | Injuries | Property Damage |
|------------|-----------|--------|----------|-----------------|
| 5/24/1952 | F1 | 0 | 0 | 25K |
| 10/6/1955 | F1 | 0 | 0 | 250K |
| 10/6/1955 | F1 | 0 | 0 | 25K |
| 2/25/1956 | F4 | 6 | 20 | 2.5M |
| 9/15/1956 | F2 | 0 | 0 | 25K |
| 4/25/1957 | F2 | 0 | 0 | 25K |
| 4/5/1958 | F3 | 1 | 8 | 250K |
| 5/31/1958 | F1 | 0 | 0 | 3K |
| 6/1/1958 | F1 | 0 | 0 | 3K |
| 9/24/1961 | F2 | 0 | 1 | 25K |
| 8/3/1967 | F1 | 0 | 0 | 3K |
| 5/15/1968 | F3 | 4 | 60 | 250K |
| 6/4/1973 | F2 | 0 | 0 | 0K |
| 3/20/1976 | F2 | 0 | 0 | 250K |
| 5/1/1983 | F2 | 0 | 20 | 2.5M |
| 4/3/1984 | F0 | 0 | 0 | 250K |
| 5/25/1984 | F0 | 0 | 0 | 0K |
| 11/15/1988 | F2 | 0 | 0 | 250K |
| 11/15/1988 | F3 | 0 | 0 | 2.5M |
| 11/26/1990 | F0 | 0 | 0 | 25K |
| 5/10/1991 | F0 | 0 | 0 | 0K |
| 5/11/1991 | F0 | 0 | 0 | 0K |
| 7/4/1992 | F1 | 0 | 0 | 2.5M |
| 5/18/1995 | F0 | 0 | 0 | 4K |
| 4/19/1996 | F0 | 0 | 0 | 5K |
| 4/15/1998 | F0 | 0 | 0 | 0 |
| 4/15/1998 | F0 | 0 | 0 | 0 |
| 6/24/2000 | F1 | 0 | 2 | 0 |
| 4/27/2002 | F1 | 0 | 0 | 0 |
| 6/10/2003 | F0 | 0 | 0 | 0 |
| 6/10/2003 | F2 | 0 | 2 | 0 |
| 6/10/2003 | F0 | 0 | 0 | 0 |
| 4/2/2006 | F2 | 1 | 11 | 0 |
| 7/21/2006 | F0 | 0 | 0 | 0 |

Source: NCDC

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* NCDC records are estimates of damage compiled by the National Weather Service from various local, state, and federal sources. However, these estimates are often preliminary in nature and may not match the final assessment of economic and property losses related to a given weather event.

Geographic Location for Tornado Hazard

The entire county has the same risk for occurrence of tornadoes. They can occur at any location within the county.

Hazard Extent for Tornado Hazard

The historical tornadoes listed previously generally move from west to east across the county—although many other tracks are possible—from more southerly to northerly. The extent of the hazard varies both in terms of the extent of the path and the wind speed.

Calculated Risk Priority Index for Tornado Hazard

Based on historical information, the probability of future tornadoes in St. Clair County is likely. Tornadoes with varying magnitudes are expected to happen. According to the St. Clair County planning team’s assessment the risk priority index (RPI) assessment, tornadoes ranked as the number one hazard.

RPI = Probability x Magnitude/Severity.

| | | | | |
|-------------|---|---------------------|---|-----|
| Probability | x | Magnitude /Severity | = | RPI |
| 4 | x | 4 | = | 16 |

Vulnerability Analysis for Tornado Hazard

Tornadoes can occur within any area of the county; therefore, the entire county population and all buildings are vulnerable to tornadoes. To accommodate this risk, this plan will consider all buildings located within the county as vulnerable. The existing buildings and infrastructure in St. Clair County are discussed in types and numbers in Table 4-10.

Critical Facilities

All critical facilities are vulnerable to tornadoes. A critical facility will encounter many of the same impacts as any other building within the jurisdiction. These impacts will vary based on the magnitude of the tornado, but can include structural failure, debris (trees or limbs) causing damage, roofs blown off or windows broken by hail or high winds, and loss of facility functionality (e.g. a damaged police station will no longer be able to serve the community). Table 4-8 lists the types and numbers of all of the essential facilities in the area. Critical facility information, including replacement costs, is included in Appendix F. A map of the critical facilities is included in Appendix G.

Building Inventory

A table of the building exposure for the entire county is listed in Table 4-9. The buildings within the county can all expect the same impacts, similar to those discussed for critical facilities. These impacts include structural failure, debris (trees or limbs) causing damage, roofs blown off or windows broken by hail or high winds, and loss of building function (e.g. a damaged home will no longer be habitable causing residents to seek shelter).

Infrastructure

During a tornado the types of infrastructure that could be impacted include roadways, utility lines/pipes, railroads, and bridges. Since the county's entire infrastructure is equally vulnerable, it is important to emphasize that any number of these items could become damaged during a tornado. The impacts to these items include broken, failed or impassable roadways, broken or failed utility lines (e.g. loss of power or gas to community), and railway failure from broken or impassable railways. Bridges could fail or become impassable causing risk to traffic.

An example scenario is described as follows to illustrate the anticipated impacts of tornadoes in the county in terms of numbers and types of buildings and infrastructure.

St. Clair County Tornado Analysis

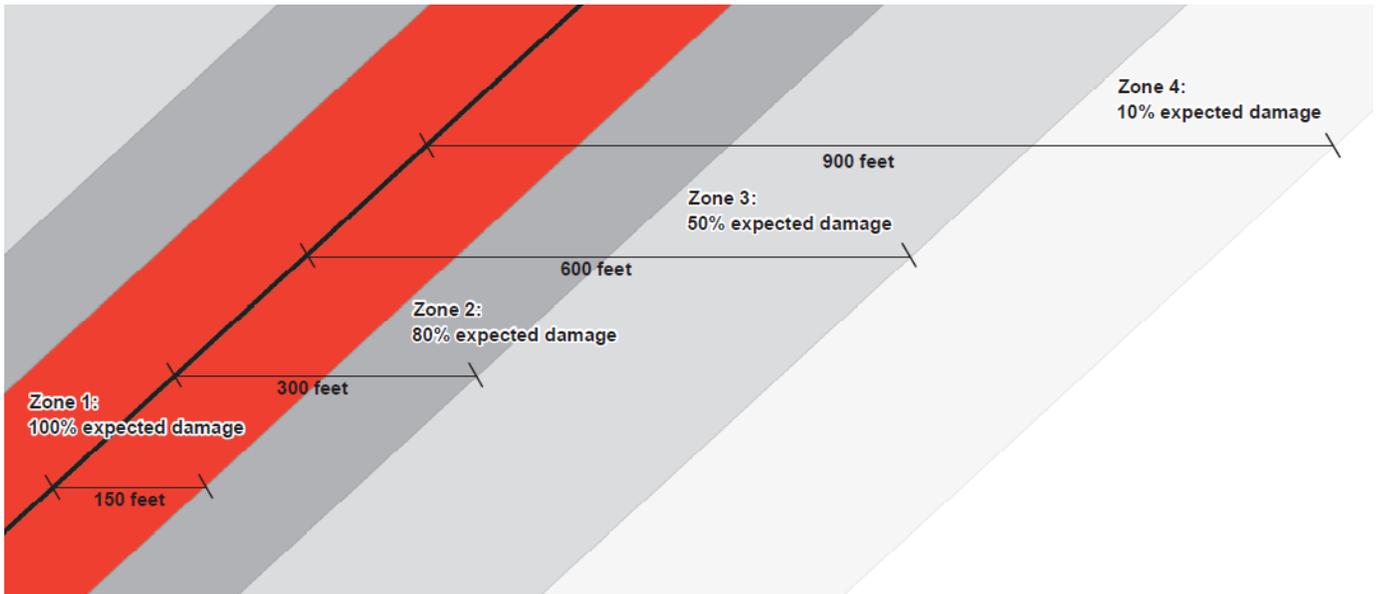
GIS overlay modeling was used to determine the potential impacts of an F4 tornado. The analysis used a hypothetical path based. The selected widths were based on a recreation of the Fujita-Scale guidelines based on conceptual wind speeds, path widths, and path lengths. There is no guarantee that every tornado will fit exactly into one of these six categories. The Fujita Scale guidelines are described in Table 4-13.

Table 4-13: Tornado Path Widths and Damage Curves

| Fujita Scale | Path Width (feet) | Maximum Expected Damage |
|--------------|-------------------|-------------------------|
| F-5 | 3000 | 100% |
| F-4 | 2400 | 100% |
| F-3 | 1800 | 80% |
| F-2 | 1200 | 50% |
| F-1 | 600 | 10% |
| F-0 | 300 | 0% |

Within any given tornado path there are degrees of damage. The most intense damage occurs within the center of the damage path with a decreasing amount of damage away from the center of the damage path. This natural process was modeled in GIS by adding damage zones around the tornado path. Figures 4-2 and Table 4-14 describe the zone analysis.

Figure 4-2: GIS Analysis Using Tornado Buffers



Once the hypothetical route is digitized on the map, several buffers are created to model the damage functions within each zone.

An F4 tornado has four damage zones. Total devastation is estimated within 150 feet of the tornado path (the darker colored zone 1). The outer buffer is 900 feet from the tornado path (the lightest colored zone 4), within which 10% of the buildings will be damaged.

Table 4-14: Tornado Zones and Damage Curves

| Fujita Scale | Zone | Buffer (feet) | Damage Curve |
|--------------|------|---------------|--------------|
| F-4 | 4 | 600-900 | 10% |
| F-4 | 3 | 300-600 | 50% |
| F-4 | 2 | 150-300 | 80% |
| F-4 | 1 | 0-150 | 100% |

The selected hypothetical tornado path is depicted in Figure 4-3, and the damage curve buffers with damaged buildings are shown in Figures 4-4, 4-5, and 4-6.

Figure 4-3: Hypothetical F-4 Tornado Path in St. Clair County

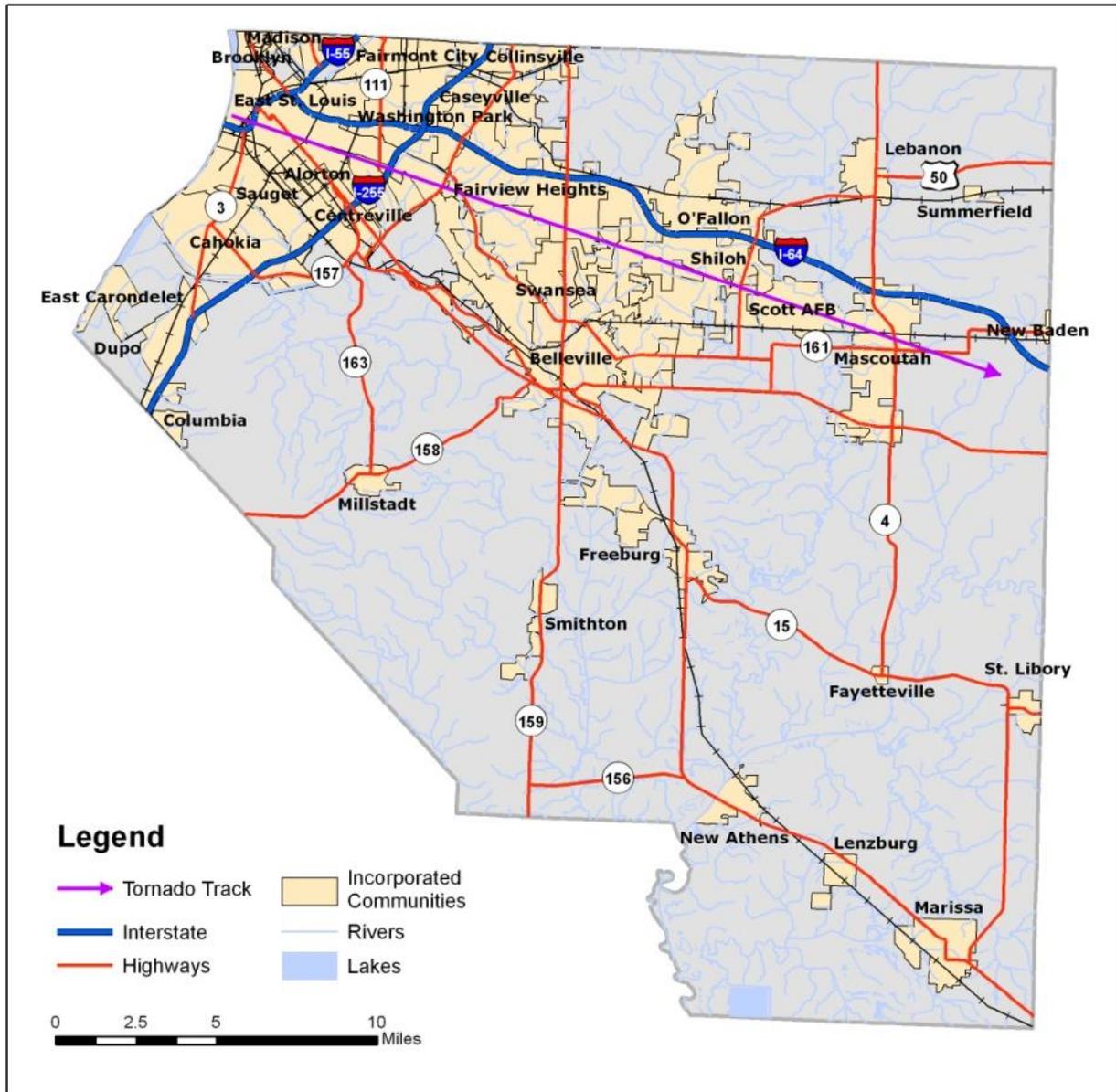


Figure 4-4: Modeled F-4 Tornado Damage Buffers in East St. Louis

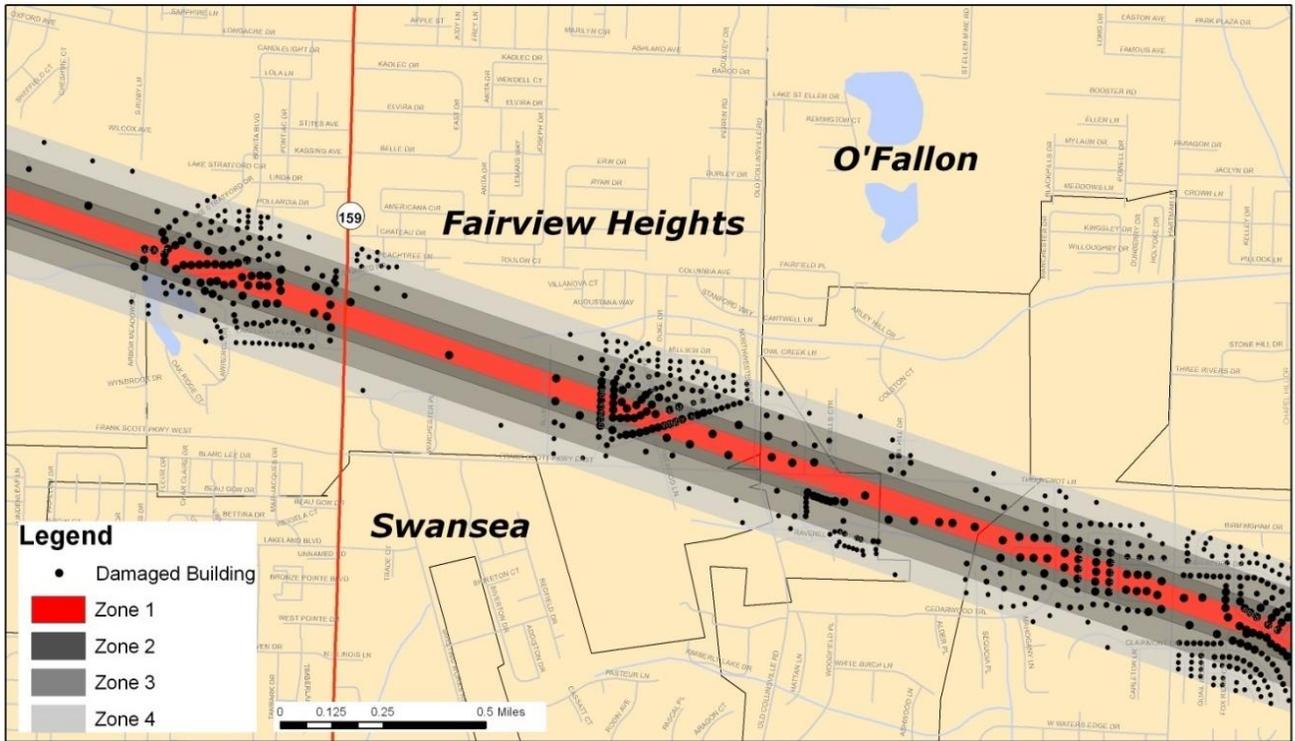


Figure 4-5: Modeled F-4 Tornado Damage Buffers in Fairview Heights, O'Fallon, and Swansea

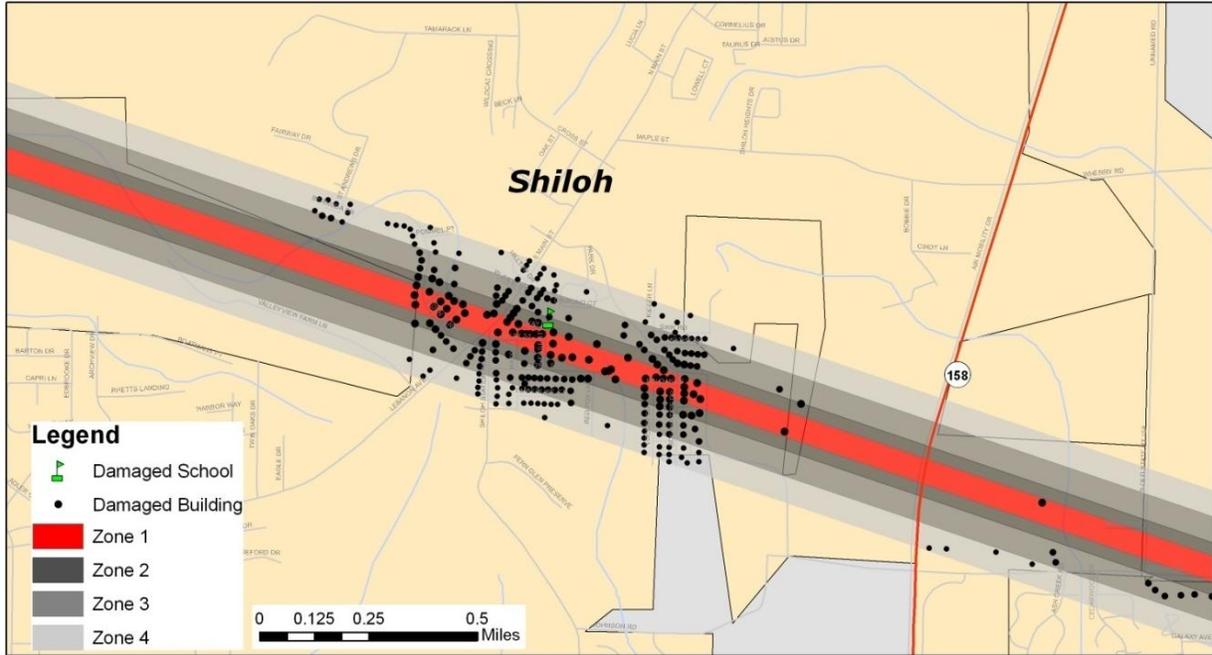
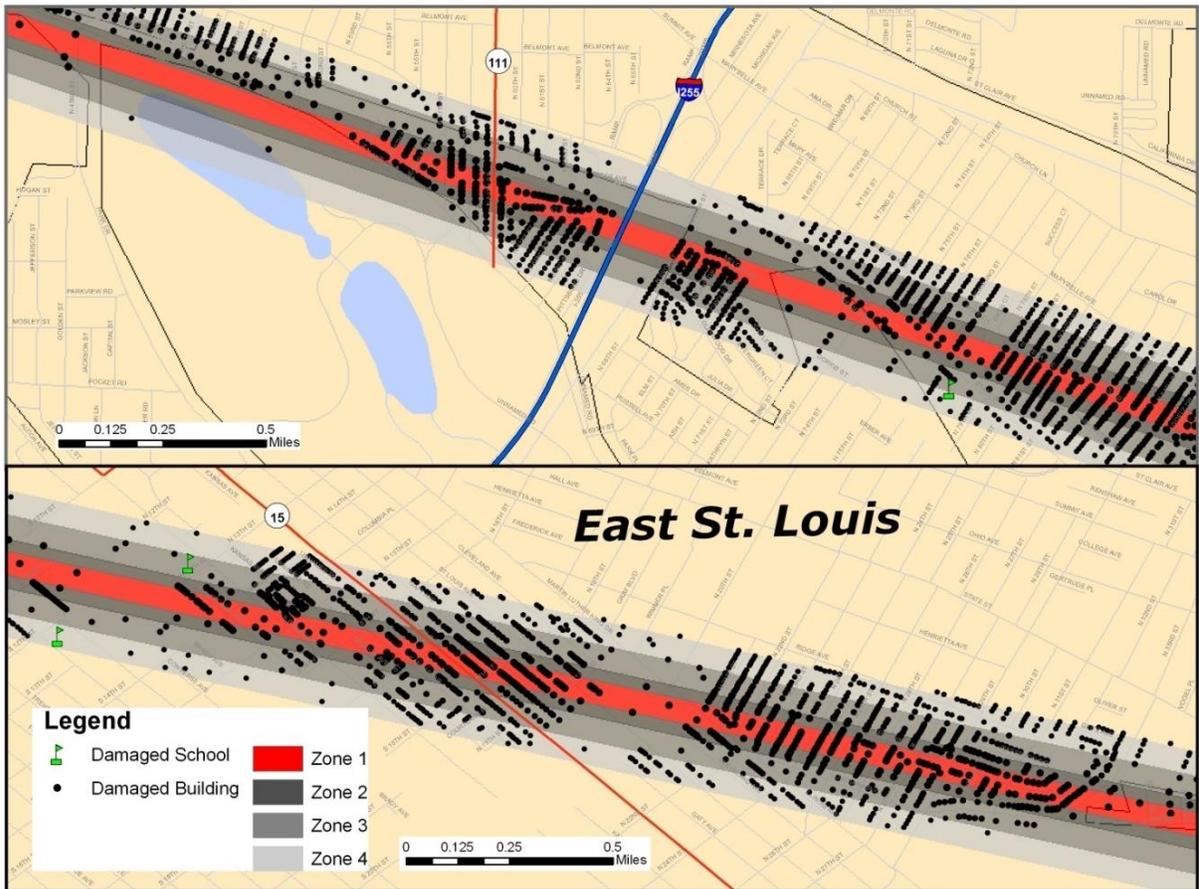


Figure 4-6 Modeled F-4 Tornado Damage Buffers in Shiloh



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The results of the analysis are depicted in Tables 4-15 and 4-16. The GIS analysis estimates that 4,492 buildings will be damaged. The estimated building losses were approximately \$203 million. The building losses are an estimate of assessed values multiplied by the percentages of damage. The overlay was performed against parcels provided by St. Clair County that were joined with Assessor records showing property improvement.

The Assessor records often do not distinguish parcels by occupancy class if the parcels are not taxable. For purposes of analysis, the total number of buildings and the assessed values for government, religious/non-profit, and education should be lumped together as exempt.

Table 4-15: Estimated Numbers of Buildings Damaged by Occupancy Type

| Occupancy | Zone 1 | Zone 2 | Zone 3 | Zone 4 |
|------------------|---------------|---------------|---------------|---------------|
| Residential | 637 | 584 | 1,113 | 1,110 |
| Commercial | 24 | 26 | 49 | 60 |
| Industrial | 91 | 135 | 316 | 272 |
| Agriculture | 10 | 8 | 28 | 28 |
| Exempt | 0 | 1 | 1 | 2 |
| Total | 762 | 754 | 1,507 | 1,472 |

Table 4-16: Estimated Building Losses x \$1,000 by Occupancy Type

| Occupancy | Zone 1 | Zone 2 | Zone 3 | Zone 4 |
|------------------|-----------------|-----------------|-----------------|-----------------|
| Residential | \$28,578 | \$27,350 | \$55,354 | \$50,964 |
| Commercial | \$4,052 | \$5,192 | \$7,933 | \$5,490 |
| Industrial | \$1,714 | \$1,751 | \$5,507 | \$2,861 |
| Agriculture | \$538 | \$762 | \$2,054 | \$2,009 |
| Exempt | \$0 | \$444 | \$555 | \$111 |
| Total | \$34,882 | \$35,499 | \$71,403 | \$61,435 |

Essential Facilities Damage

There are six essential facilities located within 900 feet of the hypothetical tornado path. The model predicts four schools would experience damage. The affected facilities are identified in Table 4-17, and their geographic locations are shown in Figures 4-4, 4-5, and 4-6.

Table 4-17: Estimated Essential Facilities Affected

| Name |
|--------------------------------------|
| East St Louis Lincoln Middle School |
| Kate Harper Wright Elementary School |
| Lilly-Freeman Elementary School |
| Shiloh Village Elementary School |

Vulnerability to Future Assets/Infrastructure for Tornado Hazard

The entire population and buildings have been identified as at risk because tornadoes can occur anywhere within the State of Illinois, at any time of the day, and during any month of the year. Furthermore, any future development in terms of new construction within the county will be at risk. The building exposure for St. Clair County is included in Table 4-9.

All critical facilities in the county and its communities are at risk. Critical facility information, including replacement costs, is included in Appendix F. A map of the critical facilities is included in Appendix G.

Analysis of Community Development Trends

Preparing for severe storms will be enhanced if officials sponsor a wide range of programs and initiatives to address the overall safety of county residents. New structures should be built with sturdier construction, and existing structures should be hardened to lessen the potential impacts of severe weather. Community sirens to warn of approaching storms are also vital to ensuring the safety of St. Clair County residents.

4.4.2 Flood Hazard

Hazard Definition for Flooding

Flooding is a significant natural hazard throughout the United States. The type, magnitude, and severity of flooding are functions of the amount and distribution of precipitation over a given area, the rate at which precipitation infiltrates into the ground, the geometry and hydrology of the catchment, and flow dynamics and conditions in and along the river channel. Floods can be classified as one of two types: upstream floods or downstream floods. Both types of floods are common in Illinois. Upstream floods, also called flash floods, occur in the upper parts of drainage basins and are generally characterized by periods of intense rainfall over a short duration. These floods arise with very little warning and often result in locally intense damage, and sometimes loss of life, due to the high energy of the flowing water. Flood waters can snap trees, topple buildings, and easily move large boulders or other structures. Six inches of rushing water can upend a person; another eighteen inches might carry off a car. Generally, upstream floods cause damage over relatively localized areas, but they can be quite severe in the local areas where they occur. Urban flooding is a type of upstream flood. Urban flooding involves the overflow of storm drain systems and can be the result of inadequate drainage combined with heavy rainfall or rapid snowmelt. Upstream or flash floods can occur at anytime of the year in Illinois, but they are most common in the spring and summer months.

Downstream floods, sometimes called riverine floods, refer to floods on large rivers at locations with large upstream catchments. Downstream floods are typically associated with precipitation events that are of relatively long duration and occur over large areas. Flooding on small tributary streams may be limited, but the contribution of increased runoff may result in a large flood downstream. The lag time between precipitation and time of the flood peak is much longer for downstream floods than for upstream floods, generally providing ample warning for people to move to safe locations and, to some extent, secure some property against damage. Riverine flooding on the large rivers of Illinois generally occurs during either the spring or summer.

Hazard Definition for Dam and Levee Failure

Dams are structures that retain or detain water behind a large barrier. When full, or partially full, the difference in elevation between the water above the dam and below creates large amounts of potential energy, creating the potential for failure. The same potential exists for levees when they serve their purpose, which is to confine flood waters within the channel area of a river and exclude that water from land or communities land-ward of the levee. Dams and levees can fail due to either: 1) water heights or flows above the capacity for which the structure was designed; or 2) deficiencies in the structure such that it cannot hold back the potential energy of the water. If a dam or levee fails, issues of primary concern include loss of human life/injury, downstream property damage, lifeline disruption (of concern would be transportation routes and utility lines required to maintain or protect life), and environmental damage.

Many communities view both dams and levees as permanent and infinitely safe structures. This sense of security may well be false, leading to significantly increased risks. Both downstream of dams and on floodplains protected by levees, security leads to new construction, added

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infrastructure, and increased population over time. Levees in particular are built to hold back flood waters only up to some maximum level, often the 100-year (1% annual probability) flood event. When that maximum is exceeded by more than the design safety margin, then the levee will be overtopped or otherwise fail, inundating communities in the land previously protected by that levee. It has been suggested that climate change, land-use shifts, and some forms of river engineering may be increasing the magnitude of large floods and the frequency of levee-failure situations.

In addition to failure that results from extreme floods above the design capacity, levees and dams can fail due to structural deficiencies. Both dams and levees require constant monitoring and regular maintenance to assure their integrity. Many structures across the U.S. have been underfunded or otherwise neglected, leading to an eventual day of reckoning in the form either of realization that the structure is unsafe or, sometimes, an actual failure. The threat of dam or levee failure may require substantial commitment of time, personnel, and resources. Since dams and levees deteriorate with age, minor issues become larger compounding problems, and the risk of failure increases.

Previous Occurrences for Riverine and Flash Flooding

The NCDC database reported 35 flood events in St. Clair County since 1993. These flood events have been attributed with \$17.2 million dollars in property damage. A recent example of flooding occurred along the Mississippi River in early June 2008. While the Mississippi River Floodplain was successfully protected by the levees in St. Clair County, significant flooding was experienced upstream of the St. Louis Metropolitan Area causing nearly \$27 million in damage in Illinois alone.

Significant St. Clair County floods recorded by the NCDC are shown in Table 4-18. A complete list of flood events and additional information about the significant flood events are included in Appendix D. Historical flood crests and discharges at hydrologic monitoring stations are summarized in Appendix H.

Table 4-18: St. Clair County Previous Occurrences of Flooding*

| Location | Date | Type | Deaths | Injuries | Property Damage |
|----------------|------------|-------------|--------|----------|-----------------|
| Belleville | 5/6/1993 | Flash Flood | 0 | 0 | 5K |
| Swansea | 5/6/1993 | Flash Flood | 0 | 0 | 1K |
| Belleville | 5/6/1993 | Flash Flood | 0 | 0 | 5K |
| Centreville | 9/23/1993 | Flash Flood | 0 | 0 | 5K |
| Belleville | 11/14/1993 | Flash Flood | 0 | 0 | 50K |
| Freeburg | 4/11/1994 | Flash Flood | 0 | 0 | 50K |
| St. Clair | 4/12/1994 | Flash Flood | 0 | 0 | 5K |
| Belleville And | 4/28/1994 | Flash Flood | 0 | 0 | 5K |
| St. Clair | 5/9/1995 | River Flood | 0 | 0 | 15.0M |
| St. Clair | 5/16/1995 | Flash Flood | 0 | 0 | 1K |
| St. Clair | 5/16/1995 | Flash Flood | 0 | 0 | 1.8M |
| St. Clair | 6/2/1995 | Urban Flood | 0 | 0 | 0 |
| St. Clair | 4/28/1996 | Flash Flood | 0 | 0 | 0 |
| St. Clair | 5/1/1996 | Flood | 0 | 0 | 0 |

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| Location | Date | Type | Deaths | Injuries | Property Damage |
|---------------|-----------|----------------------|--------|----------|-----------------|
| St. Clair | 6/22/1997 | Flash Flood | 0 | 0 | 0 |
| St. Clair | 7/30/1998 | Urban/sml Stream Fld | 0 | 0 | 0 |
| St. Clair | 8/5/1998 | Urban/sml Stream Fld | 0 | 0 | 0 |
| West Portion | 8/18/1998 | Flash Flood | 0 | 0 | 0 |
| St. Clair | 6/24/2000 | Flash Flood | 0 | 0 | 0 |
| Fairview Hgts | 7/18/2000 | Urban/sml Stream Fld | 0 | 0 | 200K |
| St. Clair | 5/19/2001 | Flood | 0 | 0 | 0 |
| St. Clair | 6/4/2001 | Flood | 0 | 0 | 0 |
| Belleville | 7/19/2001 | Flash Flood | 0 | 0 | 0 |
| St. Clair | 4/28/2002 | Flood | 0 | 0 | 0 |
| St. Clair | 5/1/2002 | Flood | 0 | 0 | 0 |
| St. Clair | 5/1/2002 | Flood | 0 | 0 | 0 |
| St. Clair | 5/12/2002 | Flash Flood | 0 | 0 | 0 |
| East Portion | 6/11/2003 | Flash Flood | 0 | 0 | 0 |
| St. Clair | 6/26/2003 | Flash Flood | 0 | 0 | 0 |
| St. Clair | 5/27/2004 | Flash Flood | 0 | 0 | 0 |
| East Portion | 7/5/2004 | Flash Flood | 0 | 0 | 0 |
| Floraville | 4/12/2005 | Flash Flood | 0 | 0 | 0 |
| Freeburg | 5/26/2008 | Flash Flood | 0 | 0 | 20K |
| East St Louis | 5/30/2008 | Flash Flood | 0 | 0 | 0 |
| Venice | 6/4/2008 | Flood | 0 | 0 | 0 |
| Fairmont City | 6/6/2008 | Flash Flood | 0 | 0 | 1K |

Source: NCDC

* NCDC records are estimates of damage compiled by the National Weather Service from various local, state, and federal sources. However, these estimates are often preliminary in nature and may not match the final assessment of economic and property losses related to a given weather event.

Previous Occurrences for Dam and Levee Dam Failure

Prior to the 1910s, large flood events along the Mississippi River often overwhelmed local/private levees inundating the floodplain communities within St. Clair County. Since the completion of the larger levees constructed by the Federal Government in the late 1910s, no levee failures have occurred along the Mississippi River Levees within St. Clair County. However, these Federal Levees were further strengthened during the 1950s. Along the other rivers or streams in St. Clair County there are no records or local knowledge of any dam or any other certified levee failure in the county.

Repetitive Loss Properties

FEMA defines repetitive loss properties as those for which two or more losses of at least \$1,000 each have been paid under the National Flood Insurance Program (NFIP) within any 10-year period since 1978. Illinois Emergency Management was contacted to determine the location of repetitive loss structures in St. Clair County. There are 35 repetitive loss structures within the county. The total amount paid for building replacement and building contents for damages to these repetitive loss structures is \$703,837.09. Table 4-19 describes the loss structures in terms of occupancy and jurisdiction.

Table 4-19: St. Clair County Repetitive Loss Structures

| Jurisdiction | Occupancy Type | Number of Properties | Number of Losses | Total Paid |
|----------------------------|--------------------|----------------------|------------------|--------------|
| Village of Cahokia | Single-Family | 1 | 2 | \$26,708.13 |
| Village of Caseyville | Single-Family | 2 | 4 | \$40,825.93 |
| Village of Caseyville | Other Residential | 1 | 2 | \$8,803.49 |
| Village of Centerville | Single-Family | 1 | 2 | \$18,523.54 |
| Village of Dupo | Single-Family | 1 | 2 | \$2,191.23 |
| Village of East Carondelet | Single-Family | 2 | 4 | \$30,928.18 |
| City of East St. Louis | Single-Family | 18 | 43 | \$82,668.46 |
| City of East St. Louis | Nonresidential | 1 | 4 | \$385,042.68 |
| St. Clair County | Single-Family | 6 | 15 | \$82,390.04 |
| St. Clair County | Other Residential | 1 | 2 | \$21,875.23 |
| St. Clair County | Two to Four-Family | 1 | 2 | \$3,880.18 |

Geographic Location for Flooding

Most riverine floods in Illinois occur during either the spring or summer and are the result of excessive rainfall and/or the combination of rainfall and snowmelt. Flash flooding in Illinois can occur during anytime of the year, but tends to be less frequent and more localized between mid-summer and early winter.

The primary sources of river flooding in St. Clair County are the Mississippi River, the Kaskaskia River and the Kaskaskia's major tributaries: Mud Creek, Richland Creek, Silver Creek, and Reinhardt Slough. The majority (>90%) of the Mississippi River Floodplain in St. Clair County is protected by two large levees which are high enough to provide protection against the 500-year flood on the Mississippi River. The Kaskaskia River and its tributaries can inundate portions of Belleville, Fayetteville, Freeburg, Lebanon, Lenzburg, Mascoutah, New Athens, O Fallon, and St. Liberty. Flooding along these rivers and streams can impact major transportation routes such as US 50, State Routes 4, 13, 15, 156, 158, 159, 161, and 177.

Flash flooding in St. Clair County typically occurs or is best documented in urban/developed areas. A recent example of flash flooding in St. Clair County occurred on June 6th 2008 when two to three inches of rain fell in a short amount of time over St. Clair County. Numerous secondary roads were flooded for a time in Caseyville, O'Fallon and East St. Louis.

The DFIRM maps were used to identify specific stream reaches for analysis. The areas of riverine flooding are depicted on the map in Appendix E.

Geographic Location for Dam and Levee Failure

The National Inventory of Dams identified 44 dams in St. Clair County. Of these 44 dams, only 11 have emergency action plans (EAP). The map in Appendix G illustrates the location of St. Clair County dams. Table 4-20 summarizes the National Inventory of Dams information.

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Table 4-20: National Inventory of Dams

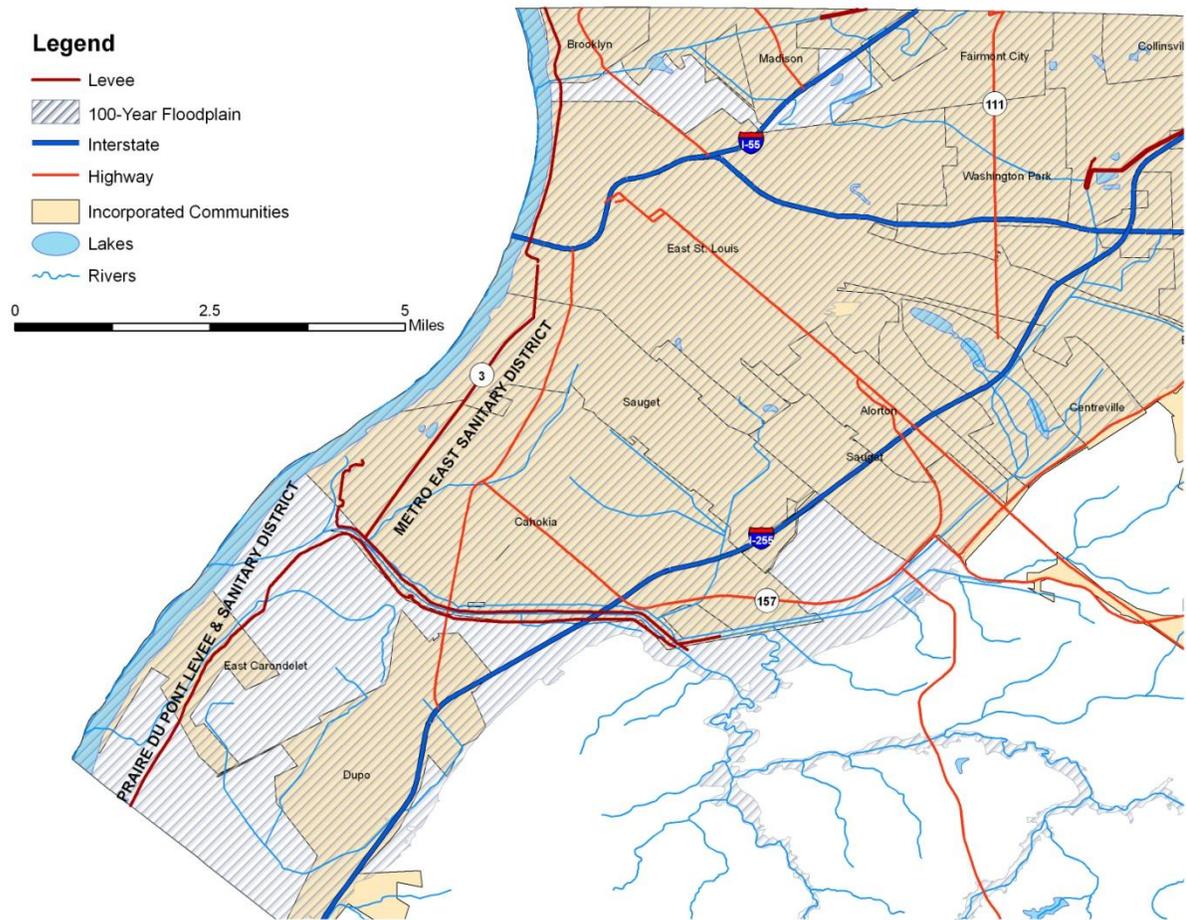
| Name | River | Hazard | EAP |
|--|------------------------------------|--------|-----|
| Heitmans Pond Dam | Tributary Negro Hollow Creek | S | Y |
| Kae Stolber Dam | Tributary Richland Creek | H | Y |
| Mc Graw Lake Dam | Tributary Silver Creek | L | N |
| Beil Lake 1 (east Dam) | Tributary Douglas Creek | L | N |
| Lake Christine Dam | Tributary Richland Creek | H | Y |
| Turkey Hill Lake | Tributary Hazel Creek | L | N |
| Justamir Association Lake Dam | Tributary Prairie Du Long Creek | L | N |
| Bauers Lake Dam | Tributary Canteen Creek | L | N |
| Beil Lake 2 Dam | Tributary Douglas Creek | L | N |
| Millstadt Sportsman Club Lake Dam | Tributary Douglas Creek | L | N |
| No name 362 | Tributary Douglas Creek | S | N |
| Biebell Lake Dam | Tributary Silver Creek | L | N |
| Marissa Reservoir Dam | Tributary Mud Creek | S | N |
| Scott Air Force Base Pond Dam | Tributary Silver Creek | L | Y |
| Lake Lorraine Dam | Tributary Richland Creek | L | N |
| Weslake Dam | Tributary Negro Hollow Creek | S | N |
| Smithton Sportsman Club Lake Dam | Tributary West Fork Richland Creek | L | N |
| Peabody/River King Dam | Herberers Branch | L | N |
| Schwebel Bothers Dam | Tributary Kaskaskia River | L | N |
| New West Fork Club Lake Dam | Tributary West Fork Richland Creek | L | N |
| Arenas Dam | Tributary Wolf Branch | S | N |
| Eckert Lake Dam | Tributary Prairie DuPont Creek | H | Y |
| Clovertown Lake Dam | Tributary Negro Hollow Creek | L | N |
| Lawrence Lake Dam | Tributary Negro Hollow Creek | H | Y |
| Beil Lake 1 (North Dam 2) | Tributary Douglas Creek | L | N |
| Fairwood Lake Dam | Engle Creek | H | N |
| Kapes Lake Dam | Tributary Ogles Creek | L | N |
| Kaskaskia Island Wildlife Area Lake Dam | Tributary Kaskaskia River | L | N |
| Peterson Pond Dam | Powdermill Creek | H | N |
| Arrowood Lake Dam | Tributary West Fork Richland Creek | L | Y |
| Ravenwood Lake Dam | Tributary Richland Creek | S | Y |
| Stonewolf Golf Course Lake Dam | Tributary Little Canteen Creek | H | Y |
| Davis Lake Dam | Tributary Prairie DuPont Creek | H | Y |
| Peabody/River King Dam1/Slurry Dam 1 | Tributary Silver Creek | L | N |
| Peabody/River King Dam1/ Dam 3A | Tributary Silver Creek | L | N |
| Peabody/River King Dam1/ Slurry Area 2 Dam | Tributary Silver Creek | L | N |
| Mueth Lake Dam | Tributary Prairie Du Long Creek | L | N |
| St. Clair County Retention Pond 1 Dam | Wolf Branch Creek | H | Y |
| Peabody/Randolph Plant/Slurry Pond | Tributary Doza Creek | L | N |
| River King Prep | Unnamed | S | N |
| Roachtown Lake Dam | Douglas Creek | B | N |
| Marissa Recreation Association (North Dam) | Tributary Mud Creek | B | N |
| Marissa Recreation Association (South Dam) | Tributary Mud Creek | B | N |

Review of the United States Army Corps of Engineers and IDNR records revealed two levee districts within St. Clair County. These levees are listed in Table 4-21 and their approximate location shown on Figure 4-7.

Table 4-21: Inventory of Levees

| Name | Levee District | Length (mi) | Protection Level | FEMA Certification |
|----------------------|--|-------------|------------------|--------------------|
| Prairie DuPont Levee | Prairie DuPont Levee and Drainage District | 10.3 | 500 – year flood | Under Review |
| Metro East Levee | Metro East Sanitary District | 19.8 | 500 – year flood | Under Review |

Figure 4-7: St. Clair County Levee Map



Hazard Extent for Flooding

The HAZUS-MH flood model is designed to use a flood depth grid and flood boundary polygon from the DFIRM data. HAZUS-MH was used to model the Base Flood Elevation (BFE). The BFE is defined as the area that has a 1% chance of flooding in any given year. Planning team input and a review of historical information provided additional information on specific flood events.

Hazard Extent for Flooding

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Hazard Extent for Dam and Levee Failure

Dams assigned the low (L) hazard potential classification are those where failure or mis-operation results in no probable loss of human life and low economic and/or environmental losses. Losses are principally limited to the owner's property. Dams assigned the significant (S) hazard classification are those dams where failure or mis-operation results in no probable loss of human life but can cause economic loss, environment damage, disruption of lifeline facilities, or impact other concerns. Dams classified as significant hazard potential dams are often located in predominantly rural or agricultural areas, but could be located in populated areas with a significant amount of infrastructure. Dams assigned the high (H) hazard potential classification are those dams where failure or mis-operation has the highest risk to cause loss of human life and significant damage to buildings and infrastructure.

According to the IDNR and the National Inventory of Dams, five dams are classified as a high hazard dams. Eight dams have an Emergency Action Plan (EAP). An EAP is not required by the State of Illinois but is recommended by the Illinois Department of Natural Resources.

Accurate mapping of the risks of flooding behind levees depends on knowing the condition and level of protection the levees actually provide. FEMA and the U.S. Army Corps of Engineers are working together to make sure that flood hazard maps better reflect the flood protection capabilities of levees and that the maps accurately represent the flood risks posed to areas situated behind them. Levee owners—usually states, communities, or private individuals or organizations such as local levee districts—are responsible for ensuring that the levees they own are maintained to their original design level and condition. In order to be considered creditable flood protection structures on FEMA's flood maps, levee owners must provide documentation to prove that the levee meets design, operation, and maintenance standards for protection against the 1% annual probability (100-year) flood.

Calculated Risk Priority Index for Flooding

Based on historical information and the HAZUS-MH flooding analysis results, the probability of flooding in St. Clair County is likely. According to the St. Clair County planning team's RPI assessment, flooding ranked as the number five hazard.

RPI = Probability x Magnitude/Severity.

| | | | | |
|-------------|---|---------------------|---|-----|
| Probability | x | Magnitude /Severity | = | RPI |
| 4 | x | 2 | = | 8 |

Calculated Risk Priority Index for Dam and Levee Failure

Based on operation and maintenance requirements and local knowledge of the dams in Jackson County, the probability of failure is possible. However, if a high hazard dam were to fail, the magnitude and severity of the damage could be great. The warning time and duration of the dam failure event would be very short. According to the RPI, dam and levee failure ranked as the number six hazard.

RPI = Probability x Magnitude/Severity.

| | | | | |
|-------------|---|---------------------|---|-----|
| Probability | x | Magnitude /Severity | = | RPI |
| 2 | x | 4 | = | 8 |

Flood Loss Modeling with HAZUS-MH

Two flood scenarios were performed for the St. Clair County Pre-disaster Mitigation Plan. The first scenario presents the damages for a hypothetical flood where the Mississippi River Levees successfully hold back the 100-year flood. The second scenario presents the flood damages if the Mississippi River Levees were to fail during the 100-year flood event. The purpose of these damage estimates is to provide the county and its incorporated communities with the necessary information to develop appropriate mitigation strategies for flooding.

HAZUS-MH Analysis Using the DFRIM Flood Boundary and County Parcels

HAZUS-MH generated the flood depth grid for a 100-year return period and made calculations by clipping the USGS 1/3- Arc- Second DEM (~10 m) to the flood boundary. Next, HAZUS-MH utilized a user-defined analysis of St. Clair County with site-specific parcel data provided by the county.

HAZUS-MH estimates that the 100-year flood for the Mississippi River Levees hold scenario would result in 2,510 buildings damaged and \$147.6 million in total building losses. The total estimated numbers of damaged buildings and building losses are given by occupancy class in Table 4-22. Figure 4-8 depicts the St. Clair County parcel points that fall within the 100-year floodplain. Figures 4-9, 4-10, and 4-11 highlight damaged buildings within the floodplain near.

For the Mississippi River Levees Fail Scenario, HAZUS-MH estimates that the 100-year flood would result in 25,484 buildings damaged and \$959.4 million in total building losses. The total estimated numbers of damaged buildings and building losses are given by occupancy class in Table 4-23. Figures 4-12 highlight damaged buildings within the Mississippi River Floodplain.

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Table 4-22: St. Clair County HAZUS-MH Analysis Total Loss (100-Year Flood) for the Mississippi River Levees Hold Scenario

| General Occupancy | Number of Buildings Damaged | Total Building Losses (Dollars) |
|--------------------------|------------------------------------|--|
| Residential | 1,784 | \$53,136,105 |
| Commercial | 130 | \$44,986,682 |
| Industrial | 294 | \$10,014,147 |
| Agricultural | 297 | \$37,094,792 |
| Exempt | 5 | \$2,442,000 |
| Total | 2,510 | \$147,673,725 |

Table 4-23: St. Clair County HAZUS-MH Analysis Total Loss (100-Year Flood) for the Mississippi River Levees Fail Scenario

| General Occupancy | Number of Buildings Damaged | Total Building Losses (Dollars) |
|--------------------------|------------------------------------|--|
| Residential | 22,733 | \$303,020,253 |
| Commercial | 1,384 | \$326,369,871 |
| Industrial | 1,163 | \$158,126,068 |
| Agricultural | 114 | \$5,783,455 |
| Exempt | 90 | \$166,080,000 |
| Total | 25,484 | \$959,379,647 |

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Figure 4-8: St. Clair County Buildings in Floodplain (100-Year Flood) for the Mississippi River Levees Hold Scenario

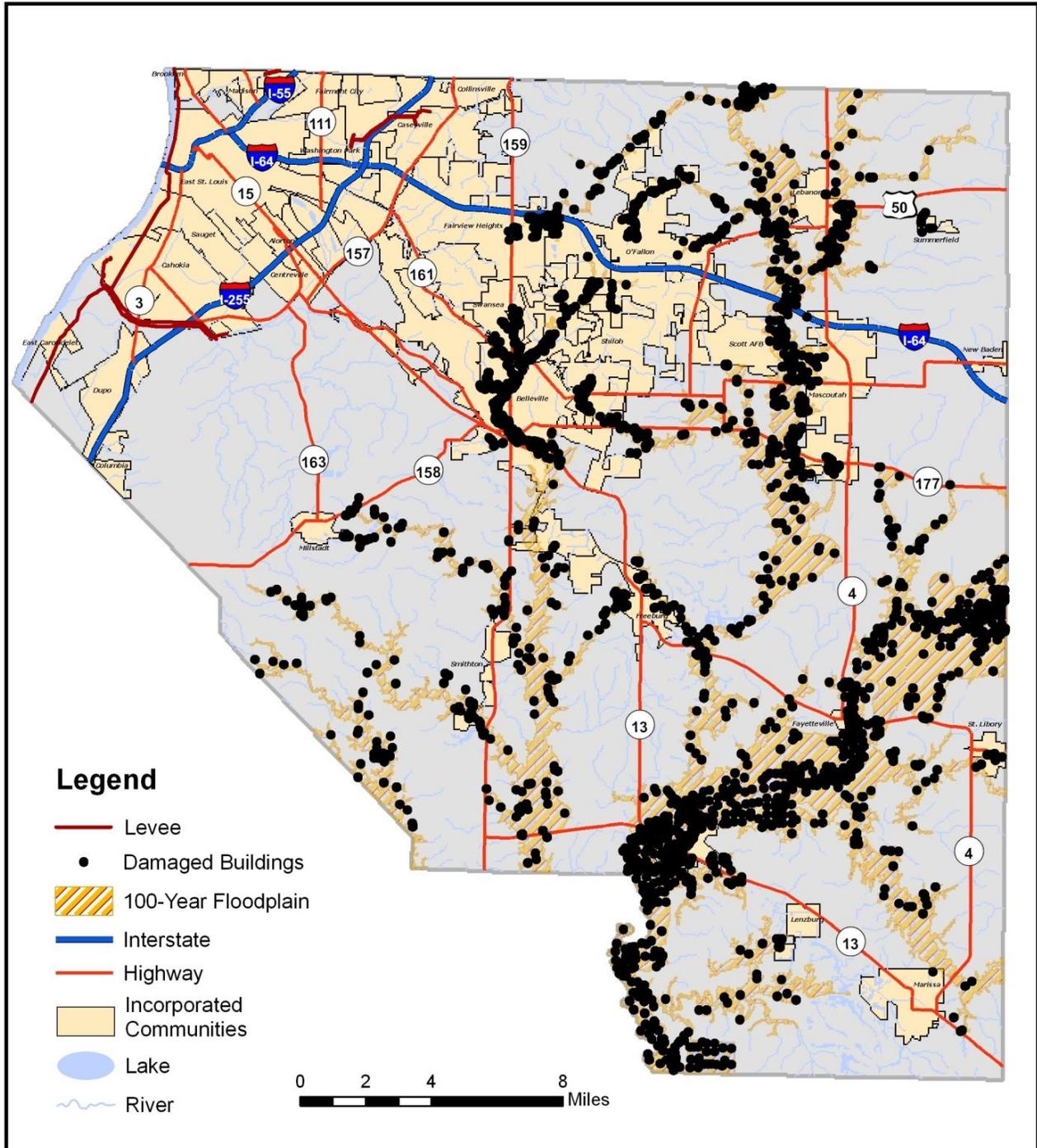


Figure 4-9: Buildings in Floodplain (100-Year Flood) near O' Fallon, Mascoutah, Lebanon, and Summerfield

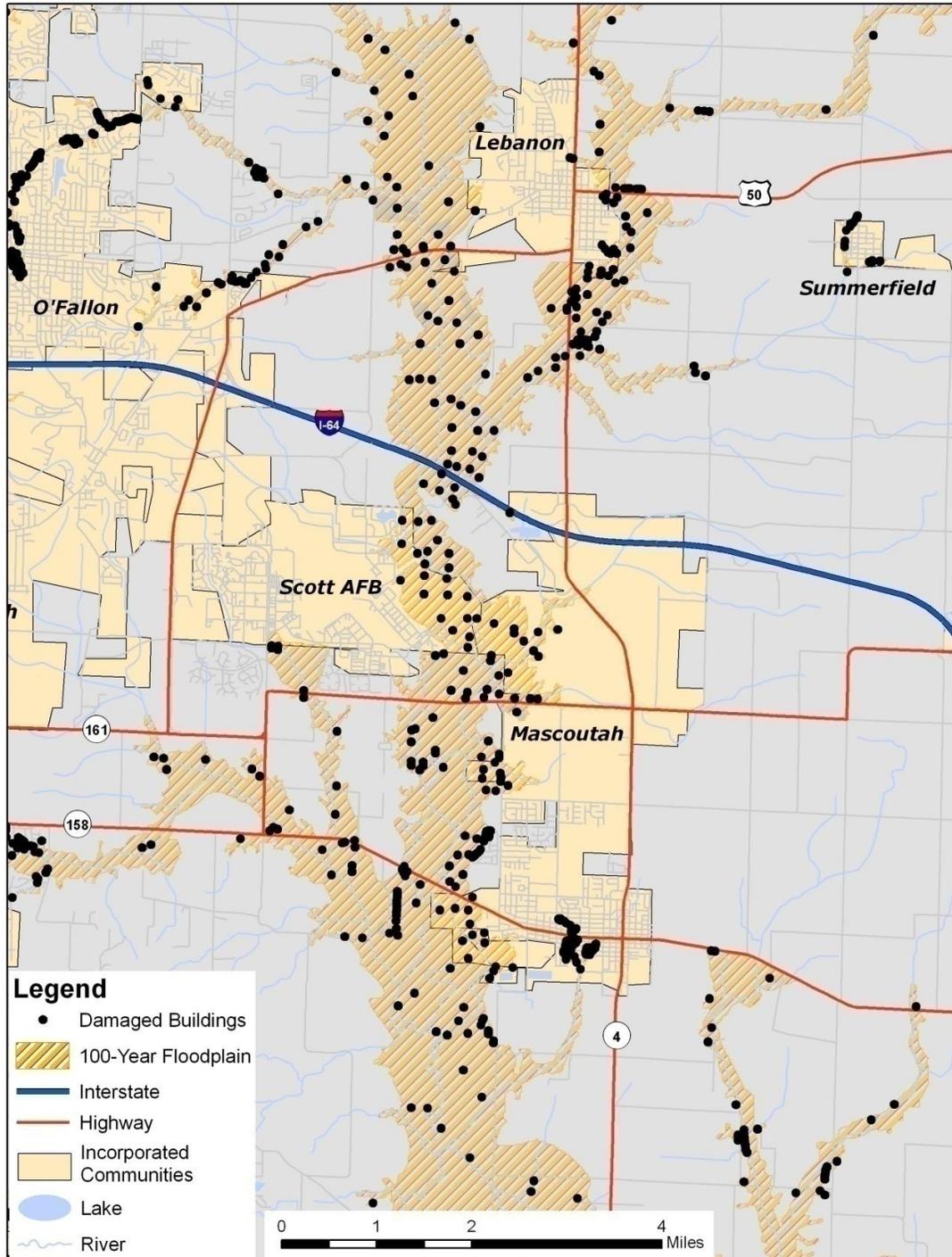


Figure 4-10: Buildings in Floodplain (100-Year Flood) near Bellville

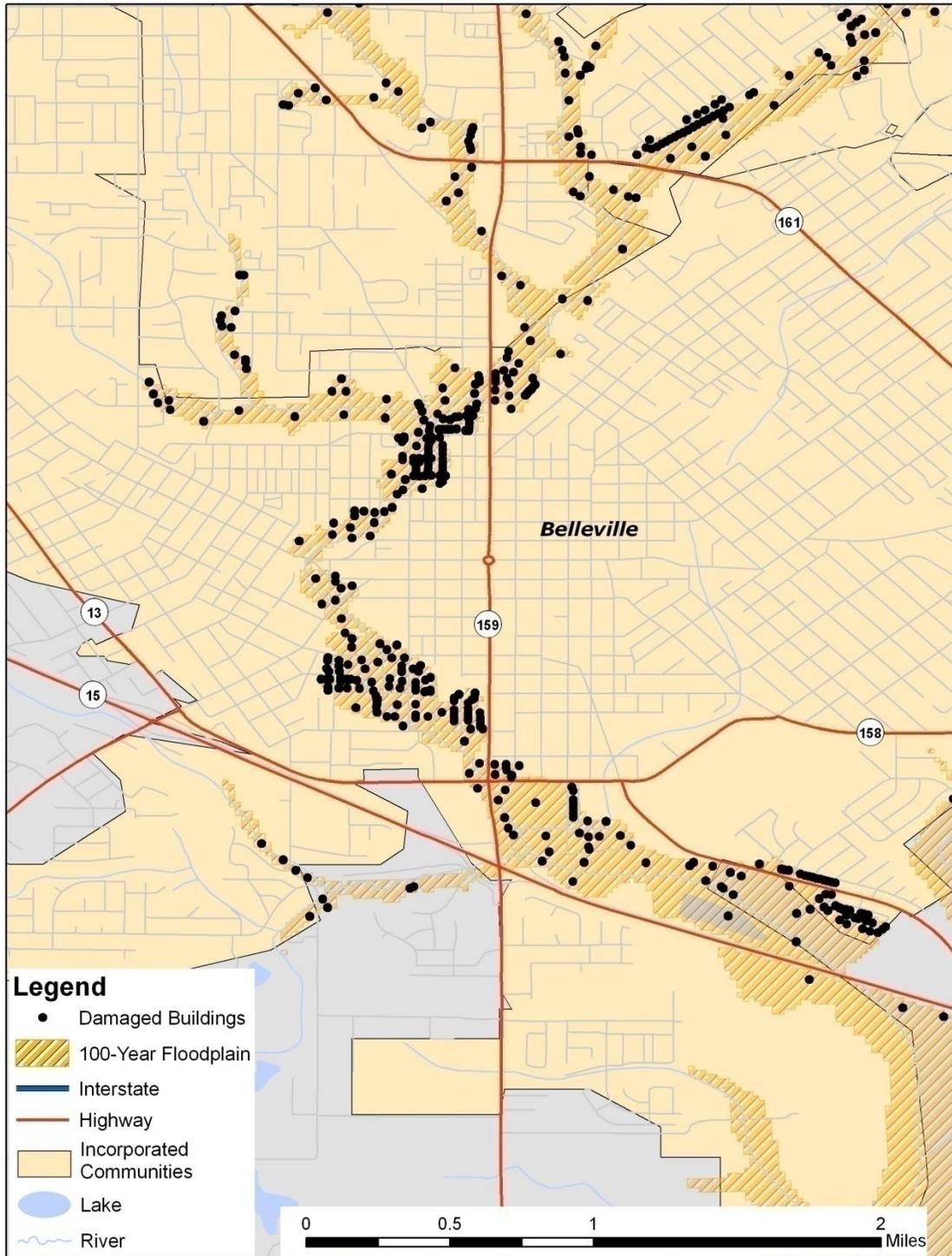


Figure 4-11: Buildings in Floodplain (100-Year Flood) near Fayetteville, New Athens, and St. Libory

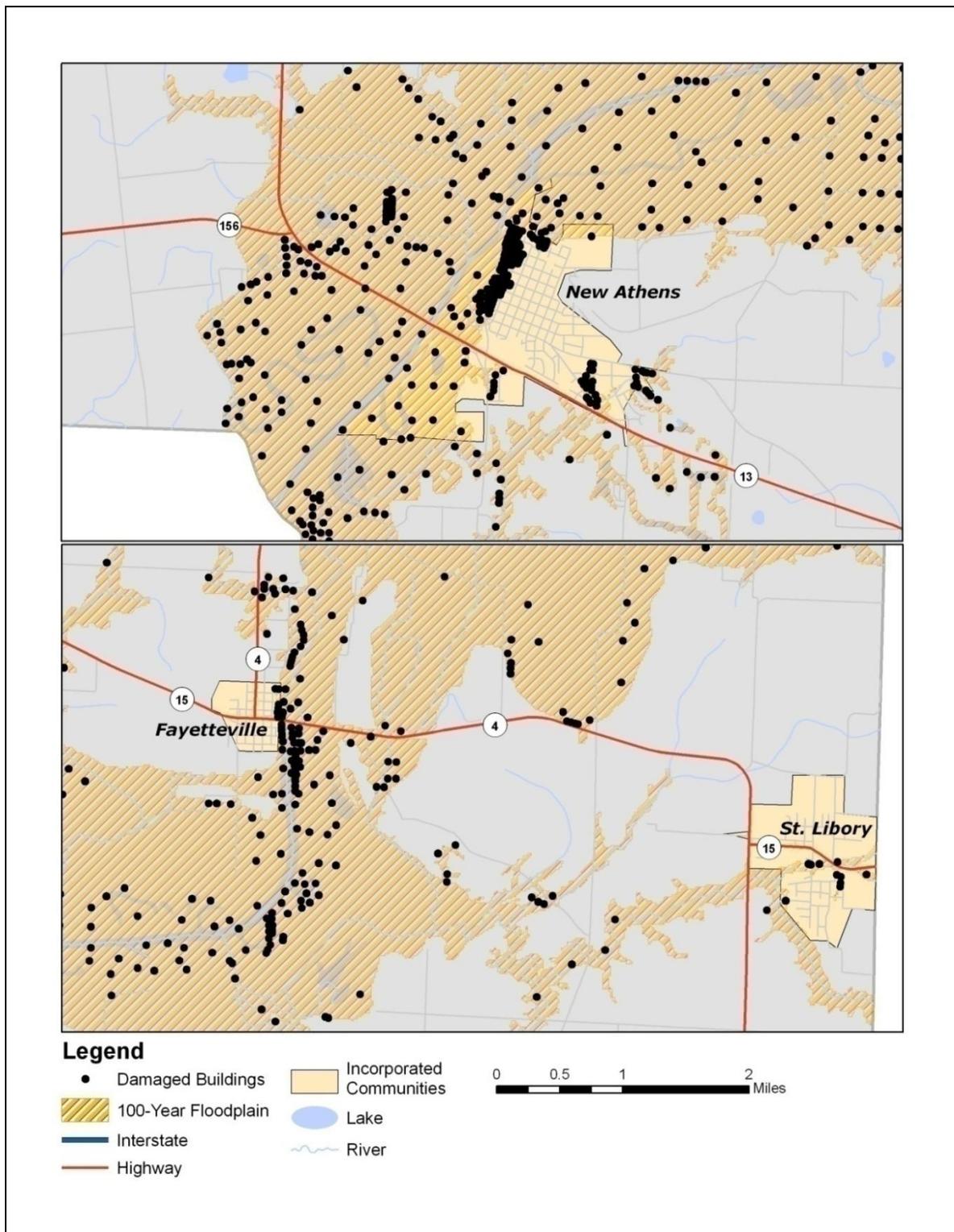
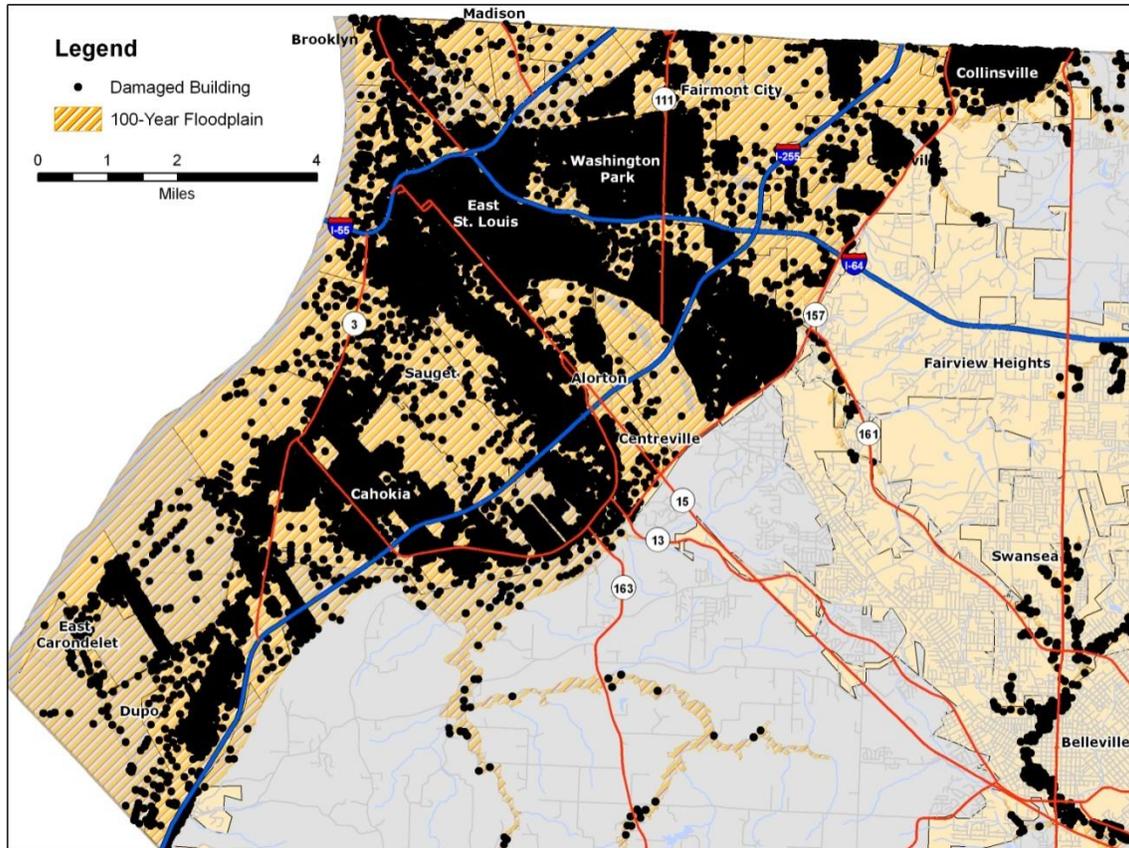


Figure 4-12: Buildings in Floodplain (100-Year Flood) near Alorton, Brooklyn, Cahokia, Centerville, Collinsville, Dupo, East Carondelet, East St. Louis, Sauget, and Washington Park for the Mississippi River Levees Fail Scenario

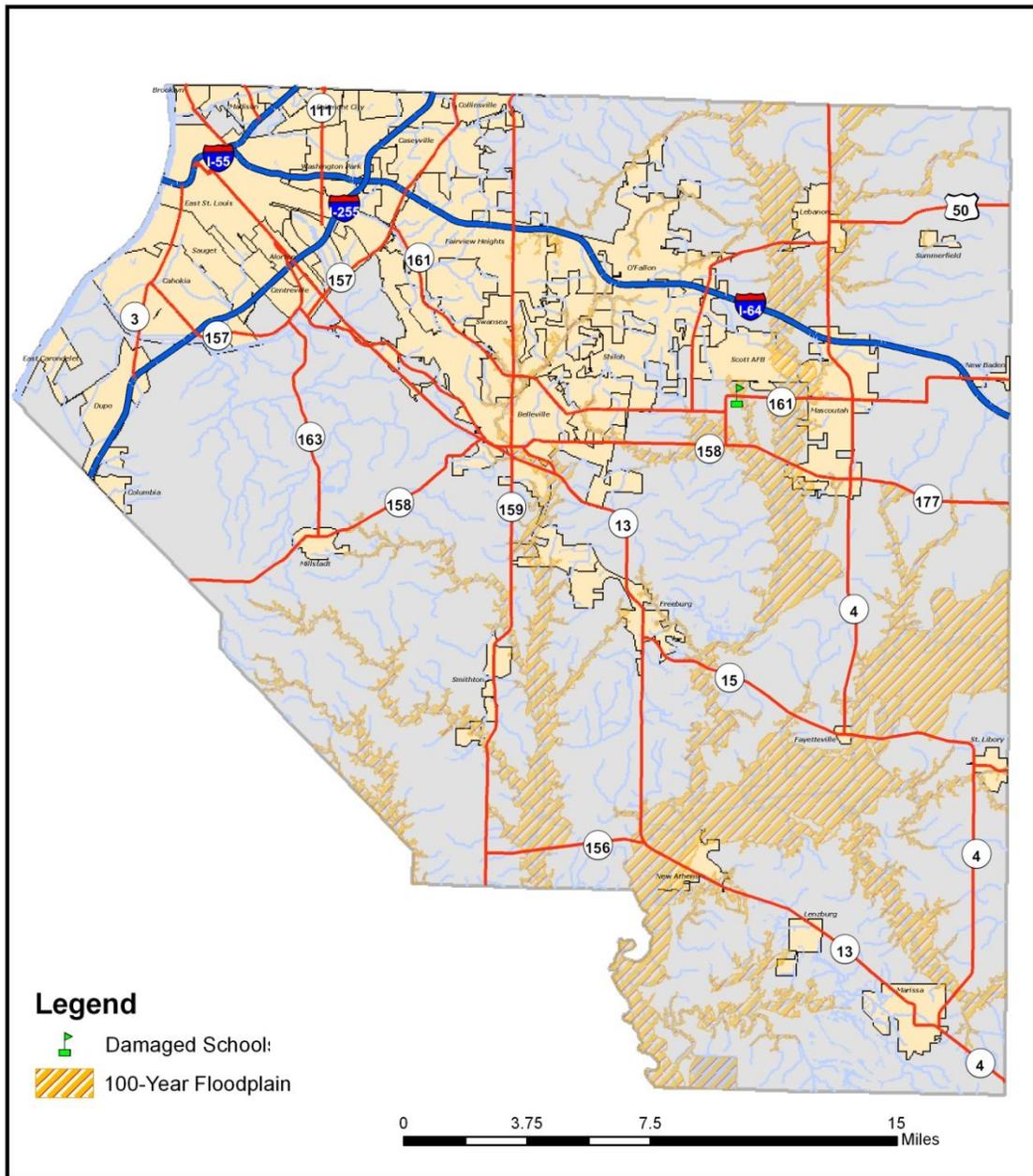


Essential Facilities

An essential facility will encounter many of the same impacts as other buildings within the flood boundary. These impacts can include structural failure, extensive water damage to the facility and loss of facility functionality (e.g., a damaged police station will no longer be able to serve the community). A complete list of all the critical facilities, including replacement costs, is included in Appendix F. A map of the critical facilities is included in Appendix G.

For the Mississippi River Levees hold scenario, HAZUS-MH analysis identified one critical facility, Hope Christian School, which may be subject to flooding. A map showing the location of this essential facility is shown in Figure 4-13.

Figure 4-13: Boundary of 100-Year Flood Overlaid with Essential Facilities



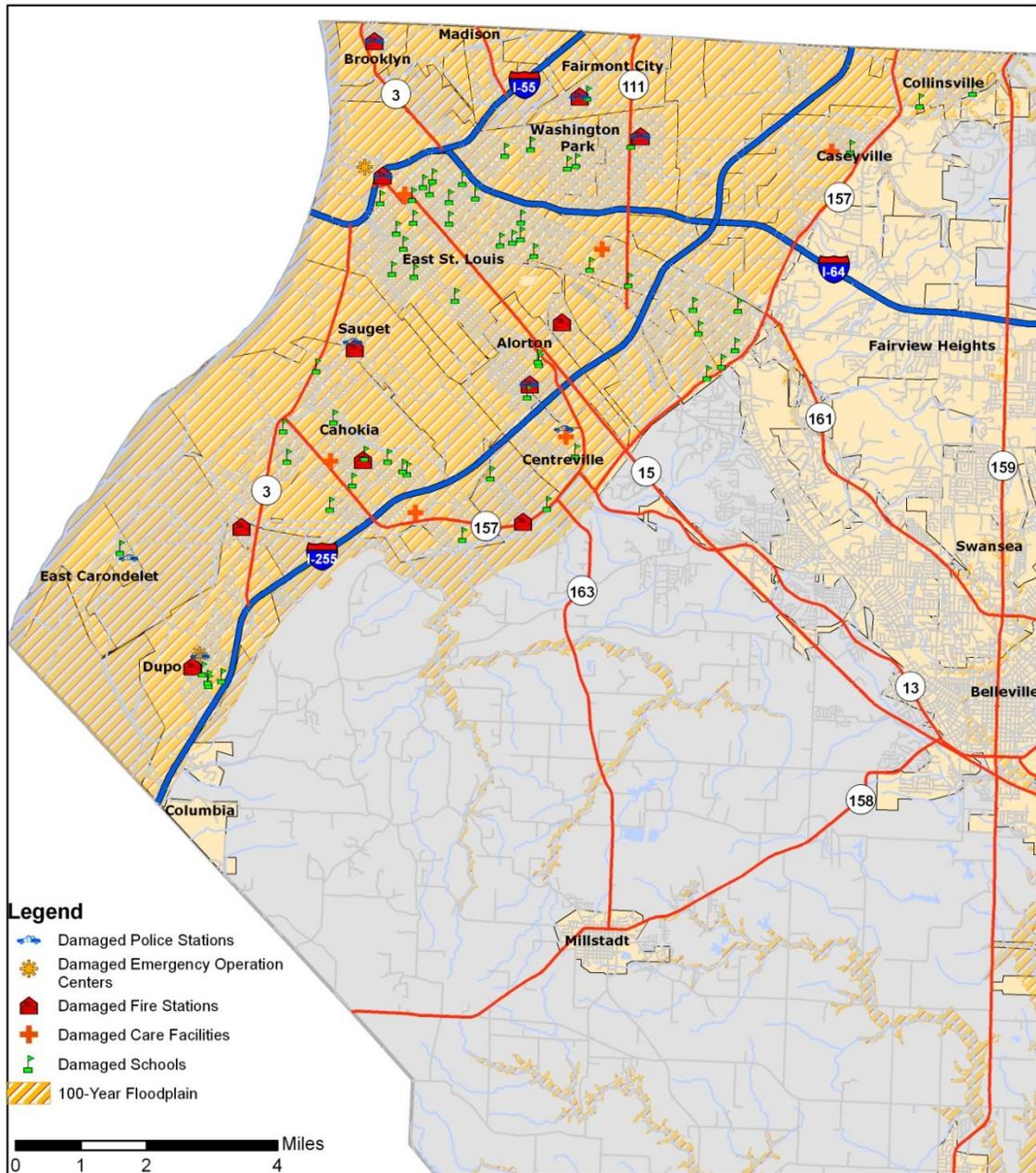
For the Mississippi River Levees fail scenario HAZUS-MH analysis identified 2 emergency operation centers, 9 police stations, 11 fire station, 60 schools, and 6 medical care facilities which may be subject to flooding. A list of potentially affected essential facilities within St. Clair County for this scenario is given in Table 4-25. A map of essential facilities potentially at risk to flooding is shown in Figure 4-14.

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Table 4-25: St. Clair County Damaged Essential Facilities for the Mississippi River Levees Fail Scenario

| Name | | |
|---|--|--------------------------------------|
| Dupo Village Civil Defense | Annette Officer Elementary School | Holy Rosary Elementary School |
| East St. Louis Civil Defense | Apostolic Learning Academy | Hope Christian School |
| Dupo Volunteer Fire Department | Avant Elementary School | Huffman Elementary School |
| Prairie - DuPont Fire Protection District | Billy Jones Elementary School | Jackson Elementary School |
| Camp Jackson Fire Protection District | Bluffview Elementary School | Jerome Early Childhood |
| Cahokia Volunteer Fire Department | Brown Elementary School | John Robinson Elementary School |
| Alorton Volunteer Fire Department | Cahokia High School | Kate Harper Wright Elementary School |
| Sauget Fire Department | Caseyville Elementary School | Lalumier Elementary School |
| Golden Garden Volunteer Fire Department | Centerville Elementary School | Lilly-Freeman Elementary School |
| East St Louis Fire Department | Childers Center for Behavioral Development | Lucas Elementary School |
| Washington Park Fire Department | Clark Middle School | Manners Elementary School |
| Fairmont City Fire Department | Collinsville High School | Maplewood Elementary School |
| Brooklyn Volunteer Fire Department | Corpus Christian Catholic School | Miles D. Davis Elementary School |
| Alorton Police Department | Crossroads Preparatory Academy | Morrison Elementary School |
| Brooklyn Police Department | Donald McHenry Elementary School | Nelson Mandella School |
| Centerville Police Department | Dunbar Elementary School | Park Annex Elementary School |
| Dupo Police Department | Dupo High School | Penniman Elementary School |
| East Carondelet Police Department | Dupo Jr. High School | SIUE St. Louis Charter School |
| East St Louis Police Department | Early Learning Facility Pitzman | SR Thea Bowman Catholic School |
| Fairmont City Police Department | East Carondelet Elementary School | St. Catherine Laboure School |
| Sauget Police Department | East St. Louis Senior High School | Tomorrows Builders Charter School |
| Washington Park Police Department | East St. Louis -Lincoln Middle School | Twin Echo Elementary School |
| Atrium Health Care Foundation | Edgemont Elementary School | Vernice G. Neeley School |
| Cahokia Nursing 7 Rehab Center | Elizabeth Morris Elementary School | Vincey Gray Academy |
| Touchette Regional Hospital | Estelle Sauget Academic Center | Vivian Adams Center |
| Virgial Calvert Nursing Home | Fort Bowman Academy Charter School | White Oak Academy |
| Kenneth Hall Regional Hospital | Gordon Bush Elementary School | Wirth Park Middle School |
| Caseville Nursing and Rehab Center | Harding Elementary School | Wyvetter Younge Middle School |
| Alta Sita Elementary School | Hawthorne Elementary School | Vivian Adams Center |
| Alternative High School | Hazel Bland Promise Center | |

Figure 4-14: Boundary of 100-Year Flood Overlaid with Essential Facilities in the area of the Mississippi River Floodplain for the Levees Fail Scenario



Infrastructure

The types of infrastructure that could be impacted by a flood include roadways, utility lines/pipes, railroads, and bridges. Since an extensive inventory of the infrastructure is not available for this plan, it is important to emphasize that any number of these items could become damaged in the event of a flood. The impacts to these items include broken, failed, or impassable roadways;

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broken or failed utility lines (e.g. loss of power or gas to community); or railway failure from broken or impassable railways. Bridges could fail or become impassable, causing a traffic risk.

Vulnerability Analysis for Flash Flooding

Flash flooding could affect any low lying location within this jurisdiction; therefore, a significant portion of the county's population and buildings are vulnerable to a flash flood. These structures can expect the same impacts as discussed in a riverine flood.

Critical facility information, including replacement costs, is included in Appendix F. A map of the critical facilities is included in Appendix G.

Vulnerability to Future Assets/Infrastructure for Flooding

Currently, the municipality zoning boards review new development for compliance with local zoning ordinances. The St. Clair County floodplain manager administers the floodplain for the county. At this time no construction is planned within the area of the 100-year floodplain. Therefore, there is no new construction, which will be vulnerable to a 100-year flood.

Vulnerability Analysis for Dam and Levee Failure

An EAP is required to assess the effect of dam failure on these communities. In order to be considered creditable flood protection structures on FEMA's flood maps, levee owners must provide documentation to prove the levee meets design, operation and maintenance standards for protection against the 1% annual probability flood.

Vulnerability to Future Assets/Infrastructure for Dam and Levee Failure

Municipal Planning Commissions reviews new development for compliance with local zoning ordinances.

Analysis of Community Development Trends

Areas with recent development within the county may be more vulnerable to drainage issues. Storm drains and sewer systems are usually most susceptible, which can cause the back-up of water, sewage, and debris into homes and basements, causing structural and mechanical damage as well as creating public health hazards and unsanitary conditions. Controlling floodplain development is the key to reducing flood-related damages.

4.4.3 Earthquake Hazard

Hazard Definition for Earthquake Hazard

An earthquake is a sudden, rapid shaking of the Earth caused by the breaking and shifting of rock beneath the Earth's surface. For hundreds of millions of years, plate tectonics has shaped the Earth as the huge plates that form the Earth's surface move slowly over, under, and past each other. At their boundaries, the plates typically are locked together and unable to release the accumulating energy. When this energy grows strong enough, the plate boundary breaks free and causes the ground to shake. Most earthquakes occur at the boundaries where the plates meet; however, some earthquakes occur in the middle of plates, as is the case for seismic zones in the Midwestern United States. The most seismically active area in the Midwest U.S. is the New Madrid Seismic Zone. Scientists have learned that the New Madrid fault system may not be the only fault system in the Central U.S. capable of producing damaging earthquakes. The Wabash Valley fault system in Illinois and Indiana manifests evidence of large earthquakes in its geologic history, and there may be other, as yet unidentified, faults that could produce strong earthquakes.

Ground shaking from strong earthquakes can collapse buildings and bridges; disrupt gas, electric, and phone service; and sometimes trigger landslides, avalanches, flash floods, fires, and destructive ocean waves (tsunamis). Buildings with foundations resting on unconsolidated materials and other unstable soil, and trailers and homes not tied to their foundations are at risk because they can be shaken off their mountings during an earthquake. When an earthquake occurs in a populated area, it may cause deaths, injuries, and extensive property damage. Magnitude measures the energy released at the source of the earthquake. Magnitude is determined from measurements on seismographs, and a single earthquake will have a single magnitude to quantify its strength. Earthquake intensity measures the strength of shaking produced by the earthquake at a certain location. Intensity is determined from effects on people, human structures, and the natural environment, and a single earthquake will have a wide range of intensity values at different locations around the epicenter. Table 4-26 is a description of earthquake intensity using an abbreviated Modified Mercalli Intensity scale, and Table 4-27 lists earthquake magnitudes and their corresponding intensities.

(Source: http://earthquake.usgs.gov/learning/topics/mag_vs_int.php)

Table 4-26: Abbreviated Modified Mercalli Intensity Scale

| Mercalli Intensity | Description |
|--------------------|---|
| I | Not felt except by a very few under especially favorable conditions. |
| II | Felt only by a few persons at rest, especially on upper floors of buildings. |
| III | Felt quite noticeably by persons indoors, especially on upper floors of buildings. Many people do not recognize it as an earthquake. Standing motor cars may rock slightly. Vibrations similar to the passing of a truck. Duration estimated. |
| IV | Felt indoors by many, outdoors by few during the day. At night, some awakened. Dishes, windows, doors disturbed; walls make cracking sound. Sensation like heavy truck striking building. Standing motor cars rocked noticeably. |
| V | Felt by nearly everyone; many awakened. Some dishes, windows broken. Unstable objects overturned. Pendulum clocks may stop. |

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| Mercalli Intensity | Description |
|--------------------|--|
| VI | Felt by all, many frightened. Some heavy furniture moved; a few instances of fallen plaster. Damage slight. |
| VII | Damage negligible in buildings of good design and construction; slight to moderate in well-built ordinary structures; considerable damage in poorly built or badly designed structures; some chimneys broken. |
| VIII | Damage slight in specially designed structures; considerable damage in ordinary substantial buildings with partial collapse. Damage great in poorly built structures. Fall of chimneys, factory stacks, columns, monuments, walls. Heavy furniture overturned. |
| IX | Damage considerable in specially designed structures; well-designed frame structures thrown out of plumb. Damage great in substantial buildings, with partial collapse. Buildings shifted off foundations. |
| X | Some well-built wooden structures destroyed; most masonry and frame structures destroyed with foundations. Rails bent. |
| XI | Few, if any (masonry) structures remain standing. Bridges destroyed. Rails bent greatly. |
| XII | Damage total. Lines of sight and level are distorted. Objects thrown into the air. |

Table 4-27: Earthquake Magnitude vs. Modified Mercalli Intensity Scale

| Earthquake Magnitude | Typical Maximum Modified Mercalli Intensity |
|----------------------|---|
| 1.0 - 3.0 | I |
| 3.0 - 3.9 | II - III |
| 4.0 - 4.9 | IV - V |
| 5.0 - 5.9 | VI - VII |
| 6.0 - 6.9 | VII - IX |
| 7.0 and higher | VIII or higher |

Historical Earthquakes that have Affected St. Clair County

Numerous instrumentally measured earthquakes have occurred in Illinois. In the past few decades, with many precise seismographs positioned across Illinois, measured earthquakes have varied in magnitude from very low microseismic events of $M=1-3$ to larger events up to $M=5.4$. Microseismic events are usually only detectable by seismographs and rarely felt by anyone. The most recent earthquake in Southern Illinois—as of the date of this report—occurred on September 6, 2009 at 2:46:20 local time about 10 km (6 miles) west-northwest of Mount Carmel, IL and measured 2.4 in magnitude.

The consensus of opinion among seismologists working in the Midwest is that a magnitude 5.0 to 5.5 event could occur virtually anywhere at any time throughout the region. Earthquakes occur in Illinois all the time, although damaging quakes are very infrequent. Illinois earthquakes causing minor damage occur on average every 20 years, although the actual timing is extremely variable. Most recently, a magnitude 5.2 earthquake shook southeastern Illinois on April 18, 2008, causing minor damage in the Mt Carmel, IL area. Earthquakes resulting in more serious damage have occurred about every 70 to 90 years.

First on the list of historical earthquakes that have affected Illinois and first on the list on continuing earthquake threats at present and into the future is seismic activity on the New Madrid Seismic Zone of southeastern Missouri. On December 16, 1811 and January 23 and February 7 of

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1812, three earthquakes struck the central U.S. with magnitudes estimated to be 7.5-8.0. These earthquakes caused violent ground cracking and volcano-like eruptions of sediment (*sand blows*) over an area of >10,500 km², and uplift of a 50 km by 23 km zone (the Lake County uplift). The shaking rang church bells in Boston, collapsed scaffolding on the Capitol in Washington, D.C., and was felt over a total area of over 10 million km² (the largest felt area of any historical earthquake). Of all the historical earthquakes that have struck the U.S., an 1811-style event would do the most damage if it recurred today.

The New Madrid earthquakes are especially noteworthy because the seismic zone is in the center of the North American Plate. Such intraplate earthquakes are felt, and do damage, over much broader areas than comparable earthquakes at plate boundaries. The precise driving force responsible for activity on the New Madrid seismic zone is not known, but most scientists infer that it is compression transmitted across the North American Plate. That compression is focused on New Madrid because it is the site of a Paleozoic structure—the Reelfoot Rift—which is a zone of weakness in the crust.

The United States Geological Survey (USGS) and the Center for Earthquake Research and Information (CERI) at the University of Memphis estimate the probability of a repeat of the 1811–1812 type earthquakes (magnitude 7.5–8.0) is 7%–10% over the next 50 years (*USGS Fact Sheet 2006-3125*.) Frequent large earthquakes on the New Madrid seismic zone are geologically puzzling because the region shows relatively little deformation. Three explanations have been proposed: 1) recent seismological and geodetic activity is still a short-term response to the 1811–12 earthquakes; 2) activity is irregular or cyclic; or 3) activity began only in the recent geologic past. There is some dispute over how often earthquakes like the 1811–12 sequence occur. Many researchers estimate a recurrence interval of between 550 and 1100 years; other researchers suggest that either the magnitude of the 1811–12 earthquakes have been over-stated, or else the actual frequency of these events is less. It is fair to say, however, that even if the 1811–12 shocks were just magnitude ~7 events, they nonetheless caused widespread damage and would do the same if another such earthquake or earthquake sequence were to strike today.

[Above: New Madrid earthquakes and seismic zone modified from N. Pinter, 1993, Exercises in Active Tectonic history adapted from *Earthquake Information Bulletin*, 4(3), May-June 1972. <http://earthquake.usgs.gov/regional/states/illinois/history.php>]

The earliest reported earthquake in Illinois was in **1795**. This event was felt at Kaskaskia, IL for a minute and a half and was also felt in Kentucky. At Kaskaskia, subterranean noises were heard. Due to the sparse frontier population, an accurate location is not possible, and the shock may have actually originated outside the state.

An intensity VI-VII earthquake occurred on **April 12, 1883**, awakening several people in Cairo, IL. One old frame house was significantly damaged, resulting in minor injuries to the inhabitants. This is the only record of injury in the state due to earthquakes.

On **October 31, 1895** a large M6.8 occurred at Charleston, Missouri, just south of Cairo. Strong shaking caused eruptions of sand and water at many places along a line roughly 30 km (20 mi) long. Damage occurred in six states, but most severely at Charleston, with cracked walls, windows

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shattered, broken plaster, and chimneys fallen. Shaking was felt in 23 states from Washington, D.C. to Kansas and from southernmost Canada to New Orleans, LA.

A Missouri earthquake on **November 4, 1905**, cracked walls in Cairo. Aftershocks were felt over an area of 100,000 square miles in nine states. In Illinois, it cracked the wall of the new education building in Cairo and a wall at Carbondale, IL.

Among the largest earthquakes occurring in Illinois was the **May 26, 1909** shock, which knocked over many chimneys at Aurora. It was felt over 500,000 square miles and strongly felt in Iowa and Wisconsin. Buildings swayed in Chicago where there was fear that the walls would collapse. Just under two months later, a second Intensity VII earthquake occurred on **July 18, 1909**, damaged chimneys in Petersburg, IL, Hannibal, MO, and Davenport, IA. Over twenty windows were broken, bricks loosened and plaster cracked in the Petersburg area. This event was felt over 40,000 square miles.

On **November 7, 1958**, a shock along the Indiana border resulted in damage at Bartelso, Dale and Maunie, IL. Plaster cracked and fell, and a basement wall and floor were cracked.

On **August 14, 1965**, a sharp but local shock occurred at Tamms, IL, a town of about 600 people. The magnitude 5 quake damaged chimneys, cracked walls, knocked groceries from the shelves, and muddied the water supply. Thunderous earth noises were heard. This earthquake was only felt within a 10 mile radius of Tamms, in communities such as Elco, Unity, Olive Branch, and Olmstead, IL. Six aftershocks were felt.

An earthquake of Intensity VII occurred on **November 9, 1968**. This magnitude 5.3 shock was felt over an area of 580,000 square miles in 23 states. There were reports of people in tall buildings in Ontario and Boston feeling the shock. Damage consisted of bricks being knocked from chimneys, broken windows, toppled television antenna, and cracked plaster. There were scattered reports of cracked foundations, fallen parapets, and overturned tombstones. Chimney damage was limited to buildings 30 to 50 years old. Many people were frightened. Church bells rang at Broughton and several other towns. Loud rumbling earthquake noise was reported in many communities.

Dozens of other shocks originating in Missouri, Arkansas, Kansas, Nebraska, Tennessee, Indiana, Ohio, Michigan, Kentucky, and Canada have been felt in Illinois without causing damage. There have been three earthquakes slightly greater than magnitude 5.0 and Intensity level VII which occurred in 1968, 1987 and 2008 and that were widely felt throughout southern Illinois and the midcontinent.

Above text adapted from <http://earthquake.usgs.gov/regional/states/illinois/history.php> and from *Seismicity of the United States, 1568-1989 (Revised)*, C.W. Stover and J.L. Coffman, U.S. Geological Survey Professional Paper 1527, United States Government Printing Office, Washington: 1993.

Geographic Location for Earthquake Hazard

St. Clair County occupies a region susceptible to earthquakes. Regionally, the two most significant zones of seismic activity are the New Madrid Seismic Zone and the Wabash Valley Fault System.

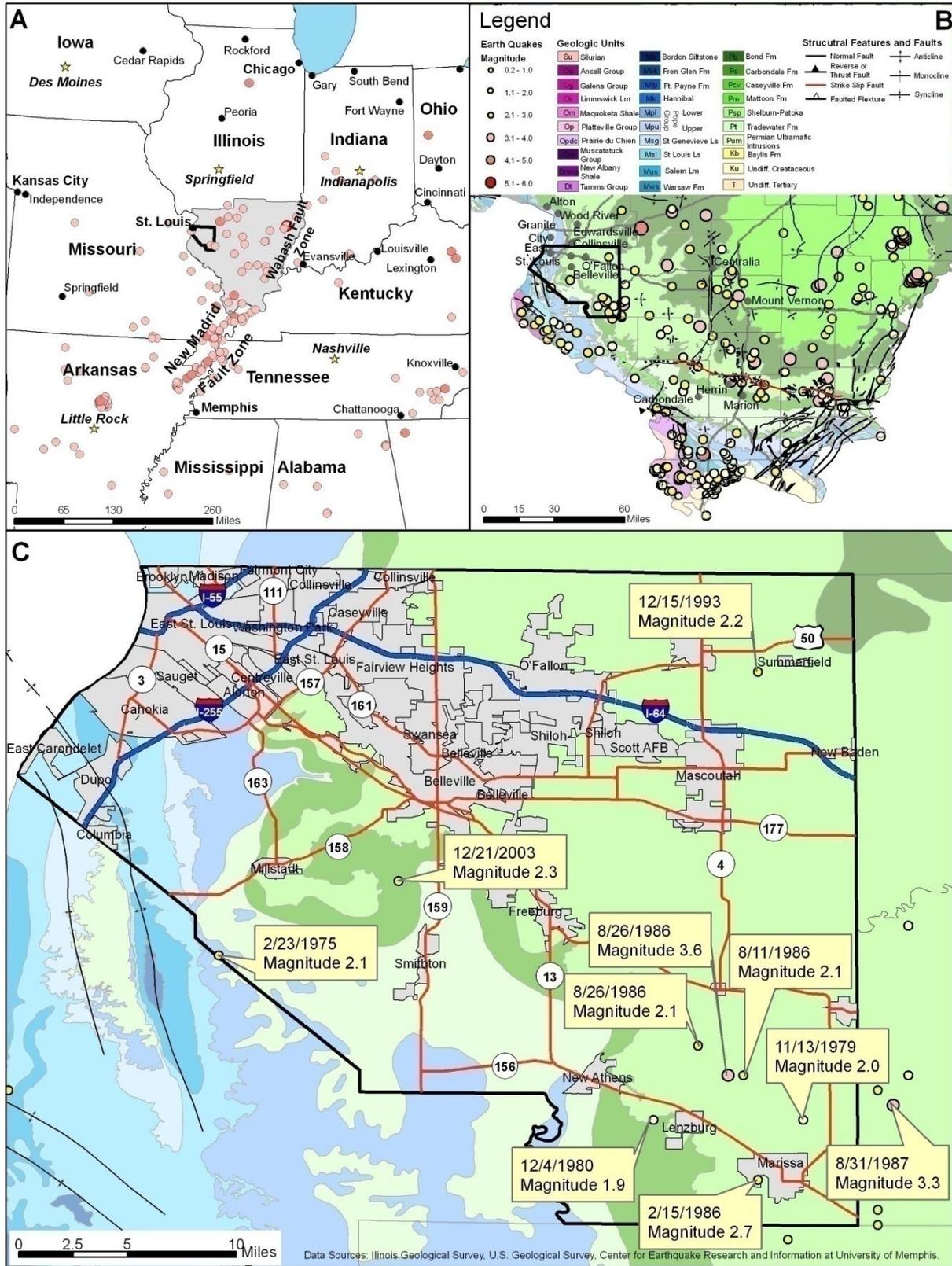
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The epicenters of nine small earthquakes (M1.9–3.6) have been recorded in St. Clair County (Figure 4-15). The geologic mechanism related to the minor earthquakes is poorly understood. Return periods for large earthquakes within the New Madrid System are estimated to be ~500–1000 years; moderate quakes between magnitude 5.5 and 6.0 can recur within approximately 150 years or less. The Wabash Valley Fault System extends nearly the entire length of southern Illinois and has the potential to generate an earthquake of sufficient strength to cause damage between St. Louis, MO and Indianapolis, IN. The USGS and the Center for Earthquake Research and Information estimate the probability of a repeat of the 1811–1812 type earthquakes (magnitude 7.5–8.0) at 7%–10% and the probability of a magnitude 6.0 or larger at 25%–40% within the next 50 years.

Figure 4-15 depicts the following: a) Location of notable earthquakes in the Illinois region with inset of St. Clair County; b) Generalized geologic bedrock map with earthquake epicenters, geologic structures, and inset of St. Clair County; c) Geologic and earthquake epicenter map of St. Clair County.

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Figure 4-15 a, b, c: St. Clair County Earthquakes



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Hazard Extent for Earthquake Hazard

The extent of the earthquake is countywide.

Calculated Risk Priority Index for Earthquake Hazard

Based on historical information as well as current USGS and SIU research and studies, future earthquakes in St. Clair County are possible. According to the St. Clair County planning team RPI assessment, earthquake is ranked as the number three hazard.

RPI = Probability x Magnitude/Severity.

| | | | | |
|-------------|---|---------------------|---|-----|
| Probability | x | Magnitude /Severity | = | RPI |
| 2 | x | 8 | = | 16 |

Vulnerability Analysis for Earthquake Hazard

This hazard could impact the entire jurisdiction equally; therefore, the entire county's population and all buildings are vulnerable to an earthquake and can expect the same impacts within the affected area. To accommodate this risk this plan will consider all buildings located within the county as vulnerable.

Critical Facilities

All critical facilities are vulnerable to earthquakes. A critical facility would encounter many of the same impacts as any other building within the county. These impacts include structural failure and loss of facility functionality (e.g. damaged police station will no longer be able to serve the community). A complete list of all of the critical facilities, including replacement costs, is included in Appendix F. A map of the critical facilities is included in Appendix G.

Building Inventory

Table 4-9 shows building exposure for the entire county. The buildings within the county can all expect the same impacts, similar to those discussed for critical facilities. These impacts include structural failure and loss of building function, which could result in indirect impacts (e.g. damaged homes will no longer be habitable, causing residence to seek shelter).

Infrastructure

During an earthquake, the types of infrastructure that could be impacted include roadways, utility lines/pipes, railroads, and bridges. Since a full inventory of infrastructure is not available for this plan, it is important to emphasize that any number of these items could become damaged in the event of an earthquake. The impacts to these items include broken, failed, or impassable roadways, broken or failed utility lines (e.g. loss of power or gas to community), and railway failure from broken or impassable railways. Bridges could fail or become impassable causing risk to traffic.

St. Clair County Multi-Hazard Mitigation Plan

Typical scenarios are described to gauge the anticipated impacts of earthquakes in the county in terms of number and types of buildings and infrastructure.

The SIU-Polis team reviewed existing geological information and recommendations for earthquake scenarios. Three earthquake scenarios based on USGS modeling were developed to provide a reasonable basis for earthquake planning in St. Clair County. The USGS modeled earthquake events were M7.7 event on the New Madrid fault zone, M7.1 earthquake on the Wabash Valley Seismic Zone and a 6.0M along the Shoal Creek Fault Zone within St. Clair County. Shake maps provided by USGS and FEMA were used in HAZUS-MH to estimate losses for these events in St. Clair County.

The building losses are subdivided into two categories: direct building losses and business interruption losses. The direct building losses are the estimated costs to repair or replace the damage caused to the building and its contents. The business interruption losses are the losses associated with inability to operate a business because of the damage sustained during the earthquake. Business interruption losses also include the temporary living expenses for those people displaced from their homes because of the earthquake

Results for 7.7 Magnitude New Madrid Earthquake Scenario

The results of the earthquake loses modeling for the 7.7M New Madrid Earthquake are depicted in Table 4-28, Table 4-29, and Figure 4-16. HAZUS-MH estimates that approximately 852 buildings will be at least moderately damaged. This is over 1% of the total number of building in the region. The total building related losses totaled \$101.9 million; 9% of the estimated losses were related to the business interruption of the region. Large losses were sustained by the residential occupancies, which comprised more than 59% of the total loss.

Table 4-28: New Madrid Scenario-Damage Counts by Building Occupancy

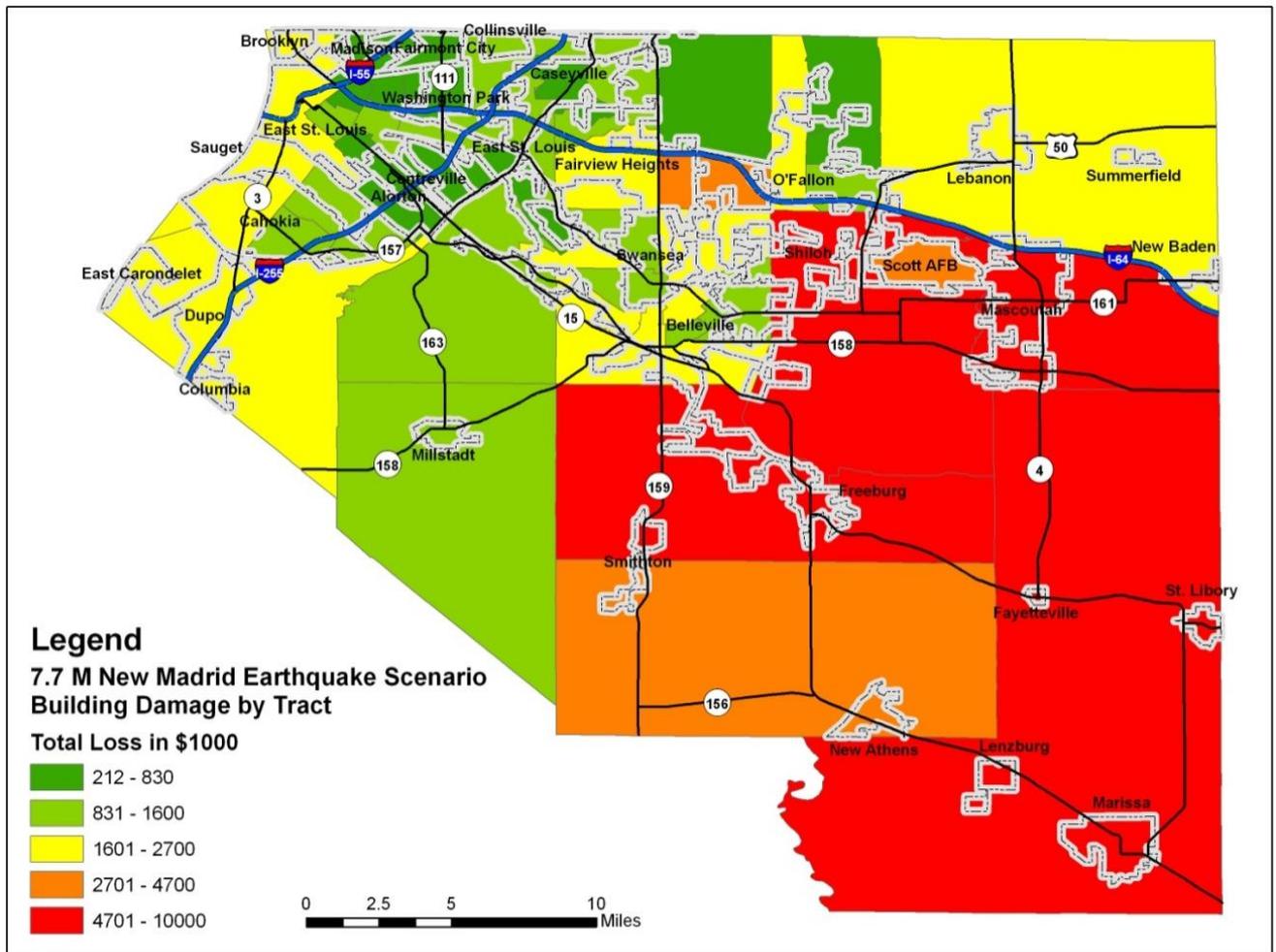
| | None | | Slight | | Moderate | | Extensive | | Complete | |
|-------------------|---------------|-------|--------------|-------|------------|-------|-----------|-------|----------|-------|
| | Count | (%) | Count | (%) | Count | (%) | Count | (%) | Count | (%) |
| Agriculture | 49 | 0.06 | 5 | 0.14 | 2 | 0.27 | 0 | 0.57 | 0 | 0.32 |
| Commercial | 1,261 | 1.46 | 63 | 1.72 | 17 | 2.07 | 1 | 3.80 | 0 | 2.32 |
| Education | 66 | 0.08 | 5 | 0.14 | 1 | 0.18 | 0 | 0.22 | 0 | 0.26 |
| Government | 111 | 0.13 | 13 | 0.35 | 4 | 0.50 | 0 | 0.62 | 0 | 0.62 |
| Industrial | 264 | 0.30 | 18 | 0.50 | 7 | 0.81 | 0 | 1.67 | 0 | 0.81 |
| Other Residential | 10,271 | 11.86 | 1,314 | 35.97 | 455 | 55.15 | 10 | 35.52 | 0 | 3.79 |
| Religion | 184 | 0.21 | 9 | 0.24 | 2 | 0.27 | 0 | 0.44 | 0 | 0.41 |
| Single Family | 74,389 | 85.90 | 2,226 | 60.93 | 336 | 40.76 | 15 | 57.16 | 0 | 91.46 |
| Total | 86,595 | | 3,653 | | 825 | | 27 | | 0 | |

St. Clair County Multi-Hazard Mitigation Plan

Table 4-29: New Madrid Scenario-Building Economic losses in Millions of Dollars

| Category | Area | Single Family | Other Residential | Commercial | Industrial | Others | Total |
|-----------------------------|-----------------|---------------|-------------------|--------------|-------------|--------------|---------------|
| Income Losses | | | | | | | |
| | Wage | 0.00 | 0.04 | 1.17 | 0.08 | 0.32 | 1.61 |
| | Capital-Related | 0.00 | 0.02 | 1.07 | 0.05 | 0.07 | 1.21 |
| | Rental | 0.40 | 0.37 | 0.83 | 0.04 | 0.14 | 1.77 |
| | Relocation | 1.36 | 0.76 | 0.99 | 0.21 | 0.83 | 4.15 |
| | Subtotal | 1.76 | 1.18 | 4.06 | 0.37 | 1.37 | 8.74 |
| Capital Stock Losses | | | | | | | |
| | Structural | 2.98 | 1.30 | 1.26 | 0.44 | 0.91 | 6.89 |
| | Non_Structural | 24.50 | 9.52 | 9.84 | 3.85 | 4.64 | 52.35 |
| | Content | 15.12 | 3.68 | 7.64 | 2.81 | 3.83 | 33.07 |
| | Inventory | 0.00 | 0.00 | 0.21 | 0.54 | 0.07 | 0.82 |
| | Subtotal | 42.59 | 14.51 | 18.95 | 7.64 | 9.45 | 93.14 |
| | Total | 44.35 | 15.69 | 23.01 | 8.01 | 10.81 | 101.88 |

Figure 4-16: New Madrid Valley Scenario-Building Economic Losses in Thousands of Dollars



New Madrid Earthquake Scenario—Essential Facility Losses

Before the earthquake, the region had 3,417 care beds available for use. On the day of the earthquake, the model estimates that only 1,531 care beds (45%) are available for use by patients already in medical care facilities and those injured by the earthquake. After one week, 91% of the beds will be back in service. By day 30, 98% will be operational.

Results for 7.1 Magnitude Wabash Valley Earthquake Scenario

The results of the 7.1M Wabash Valley Earthquake are depicted in Table 4-30, Table 4-31, and Figure 4-17. HAZUS-MH estimates that approximately 126 buildings will be at least moderately damaged.

The total building related losses totaled \$13.2 million; 5% of the estimated losses were related to the business interruption of the region. Large losses were sustained by the residential occupancies, which comprised more than 61% of the total loss.

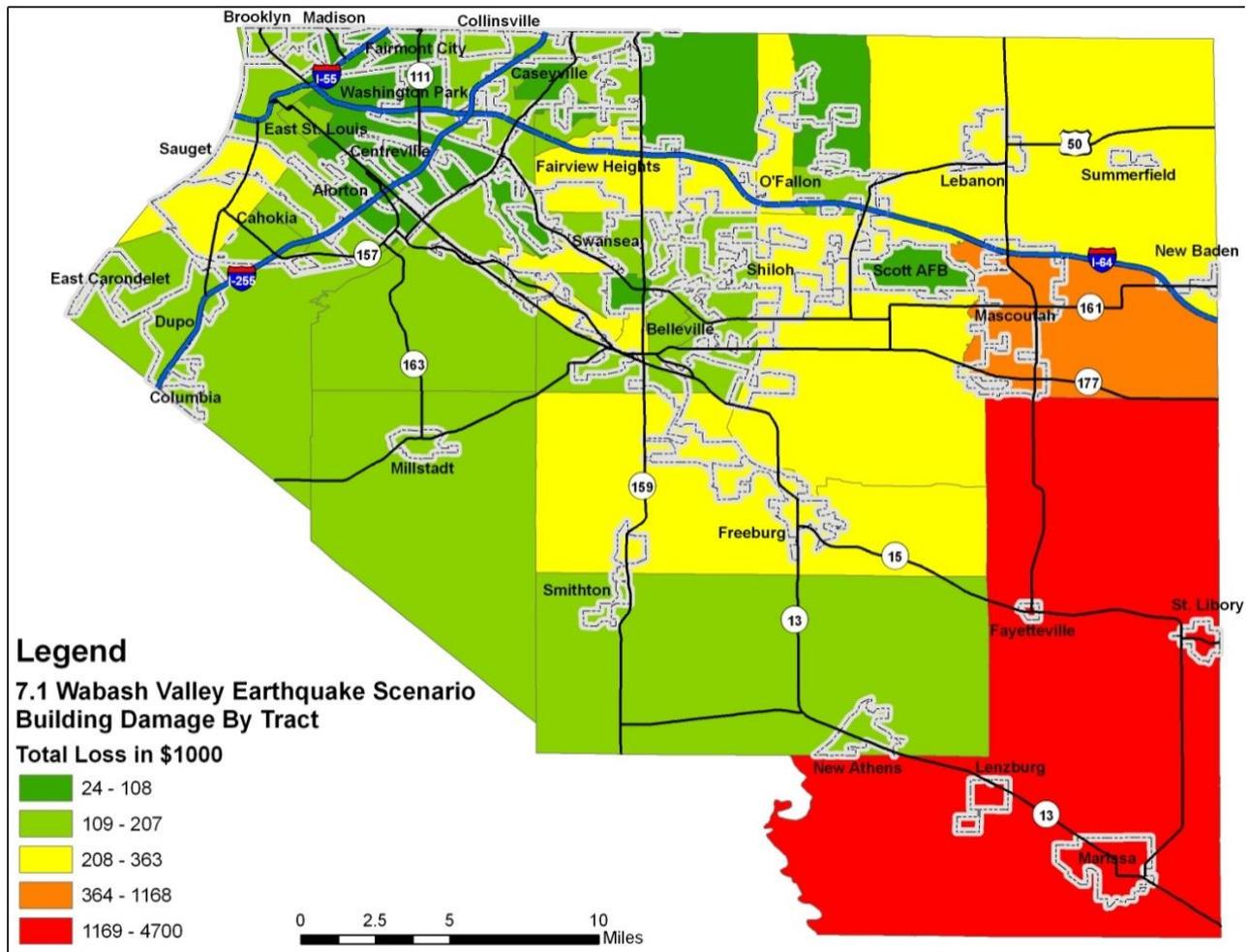
Table 4-30: Wabash Valley Scenario-Damage Counts by Building Occupancy

| | None | | Slight | | Moderate | | Extensive | | Complete | |
|-------------------|---------------|-------|--------------|-------|------------|-------|-----------|-------|----------|-------|
| | Count | (%) | Count | (%) | Count | (%) | Count | (%) | Count | (%) |
| Agriculture | 55 | 0.06 | 2 | 0.15 | 0 | 0.32 | 0 | 0.71 | 0 | 0.36 |
| Commercial | 1,324 | 1.47 | 16 | 1.49 | 2 | 1.60 | 0 | 2.22 | 0 | 1.35 |
| Education | 72 | 0.08 | 1 | 0.11 | 0 | 0.10 | 0 | 0.11 | 0 | 0.13 |
| Government | 126 | 0.14 | 2 | 0.16 | 0 | 0.16 | 0 | 0.18 | 0 | 0.18 |
| Industrial | 284 | 0.32 | 4 | 0.36 | 1 | 0.58 | 0 | 1.06 | 0 | 0.38 |
| Other Residential | 11,641 | 12.95 | 357 | 33.56 | 50 | 40.53 | 0 | 11.41 | 0 | 1.93 |
| Religion | 192 | 0.21 | 3 | 0.28 | 0 | 0.32 | 0 | 0.47 | 0 | 0.41 |
| Single Family | 76,215 | 84.77 | 680 | 63.90 | 70 | 56.40 | 2 | 83.84 | 0 | 95.26 |
| Total | 89,909 | | 1,065 | | 124 | | 2 | | 0 | |

Table 4-31: Wabash Valley Scenario-Building Economic losses in Millions of Dollars

| Category | Area | Single Family | Other Residential | Commercial | Industrial | Others | Total |
|----------------------------|-----------------|---------------|-------------------|-------------|-------------|-------------|--------------|
| Income Loses | | | | | | | |
| | Wage | 0.00 | 0.00 | 0.15 | 0.01 | 0.04 | 0.21 |
| | Capital-Related | 0.00 | 0.00 | 0.13 | 0.00 | 0.01 | 0.15 |
| | Rental | 0.08 | 0.06 | 0.13 | 0.00 | 0.01 | 0.28 |
| | Relocation | 0.01 | 0.00 | 0.00 | 0.00 | 0.00 | 0.02 |
| | Subtotal | 0.09 | 0.07 | 0.41 | 0.02 | 0.07 | 0.65 |
| Capital Stock Loses | | | | | | | |
| | Structural | 0.69 | 0.19 | 0.19 | 0.06 | 0.15 | 1.28 |
| | Non_Structural | 3.57 | 1.13 | 1.23 | 0.49 | 0.62 | 7.04 |
| | Content | 1.96 | 0.40 | 0.92 | 0.35 | 0.50 | 4.13 |
| | Inventory | 0.00 | 0.00 | 0.03 | 0.07 | 0.01 | 0.11 |
| | Subtotal | 6.21 | 1.72 | 2.37 | 0.97 | 1.29 | 12.55 |
| | Total | 6.30 | 1.78 | 2.79 | 0.98 | 1.35 | 13.20 |

Figure 4-17: Wabash Valley Scenario-Building Economic Losses in Thousands of Dollars



Wabash Valley Scenario—Essential Facility Losses

Before the earthquake, the region had 3,417 care beds available for use. On the day of the earthquake, the model estimates that only 2,024 care beds (59.0%) are available for use by patients already in medical care facilities and those injured by the earthquake. After one week, 97% of the beds will be back in service. By day 30, 100% will be operational.

Results for 6.0 Magnitude Earthquake Shoal Creek Fault Scenario

The results of the 6.0 magnitude Shoal Creek Fault Earthquake within St. Clair County are depicted in Tables 4-32 and 4-33 and Figure 4-18. HAZUS-MH estimates that approximately 2,709 buildings will be at least moderately damaged. This is more than 3% of the total number of buildings in the region. It is estimated that 1 building will be damaged beyond repair.

St. Clair County Multi-Hazard Mitigation Plan

The total building related losses totaled \$1.32 Billion; 3% of the estimated losses were related to the business interruption of the region. Large losses were sustained by the residential occupancies, which comprised more than 64% of the total loss.

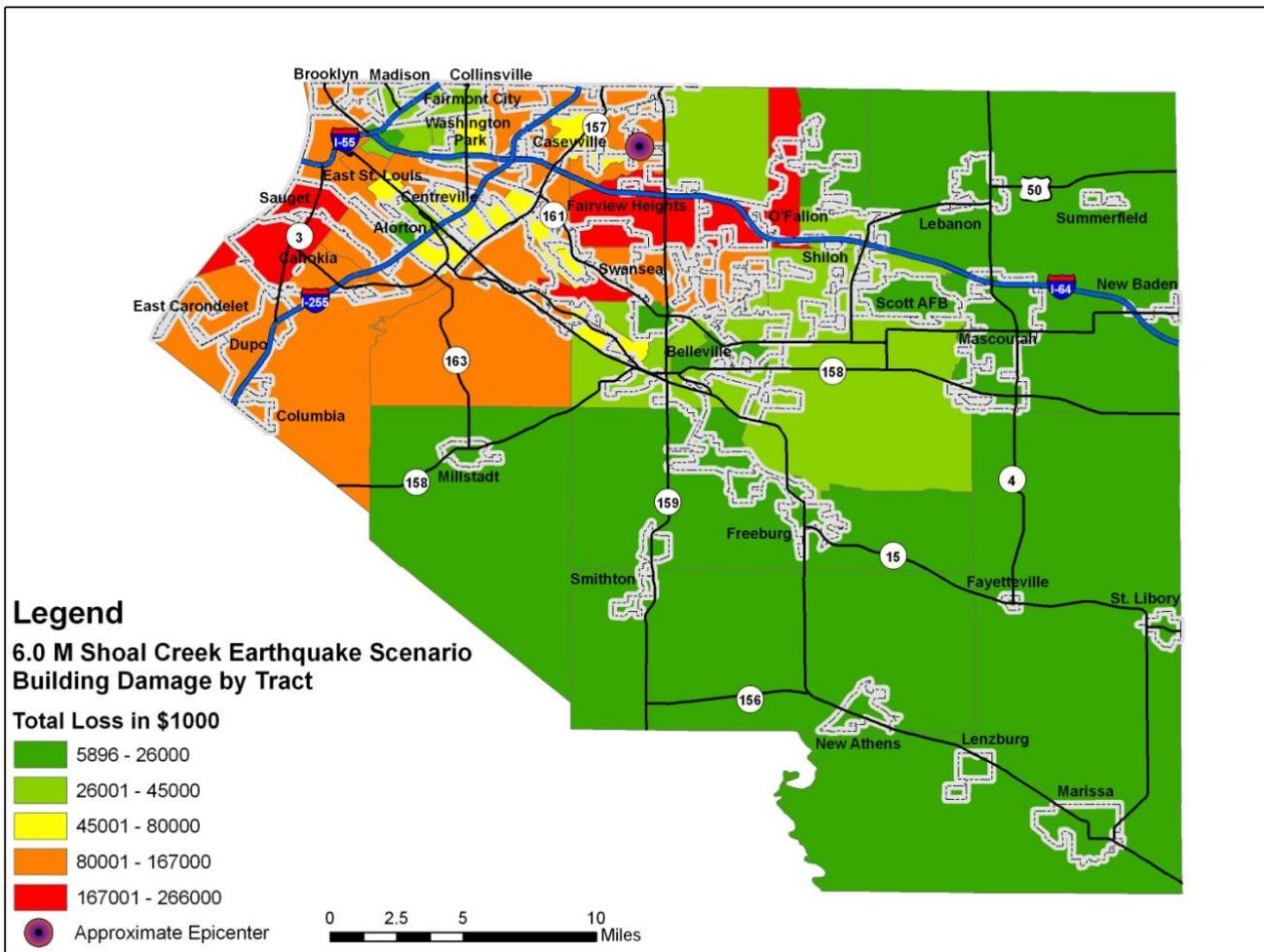
Table 4-32: Shoal Creek 6.0M Scenario-Damage Counts by Building Occupancy

| | None | | Slight | | Moderate | | Extensive | | Complete | |
|-------------------|---------------|-------|---------------|-------|--------------|-------|-----------|-------|----------|-------|
| | Count | (%) | Count | (%) | Count | (%) | Count | (%) | Count | (%) |
| Agriculture | 41 | 0.06 | 11 | 0.08 | 4 | 0.15 | 0 | 0.20 | 0 | 0.10 |
| Commercial | 1,006 | 1.36 | 255 | 1.75 | 77 | 2.95 | 4 | 4.00 | 0 | 2.33 |
| Education | 54 | 0.07 | 14 | 0.10 | 4 | 0.16 | 0 | 0.20 | 0 | 0.21 |
| Government | 100 | 0.14 | 22 | 0.15 | 6 | 0.22 | 0 | 0.27 | 0 | 0.25 |
| Industrial | 215 | 0.29 | 55 | 0.37 | 19 | 0.73 | 1 | 0.96 | 0 | 0.36 |
| Other Residential | 8,388 | 11.37 | 2,888 | 19.74 | 764 | 29.19 | 9 | 9.91 | 0 | 5.63 |
| Religion | 144 | 0.20 | 39 | 0.27 | 11 | 0.43 | 1 | 0.59 | 0 | 0.49 |
| Single Family | 63,814 | 86.51 | 11,343 | 77.55 | 1,731 | 66.16 | 77 | 83.87 | 1 | 90.63 |
| Total | 73,763 | | 14,627 | | 2,617 | | 92 | | 1 | |

Table 4-33: Shoal Creek 6.0M Scenario-Building Economic Losses in Millions of Dollars

| Category | Area | Single Family | Other Residential | Commercial | Industrial | Others | Total |
|-----------------------------|-----------------|---------------|-------------------|---------------|--------------|--------------|-----------------|
| Income Losses | | | | | | | |
| | Wage | 0.00 | 0.31 | 6.15 | 0.20 | 0.74 | 7.40 |
| | Capital-Related | 0.00 | 0.13 | 5.18 | 0.13 | 0.19 | 5.64 |
| | Rental | 1.99 | 1.95 | 3.54 | 0.10 | 0.26 | 7.85 |
| | Relocation | 6.82 | 1.86 | 4.60 | 0.56 | 2.05 | 15.88 |
| | Subtotal | 8.81 | 4.25 | 19.47 | 0.99 | 3.25 | 36.77 |
| Capital Stock Losses | | | | | | | |
| | Structural | 14.36 | 3.90 | 5.27 | 1.29 | 2.19 | 27.00 |
| | Non_Structural | 328.10 | 141.36 | 130.39 | 38.74 | 44.11 | 682.71 |
| | Content | 271.60 | 75.53 | 133.82 | 33.98 | 49.35 | 564.28 |
| | Inventory | 0.00 | 0.00 | 3.45 | 6.80 | 0.42 | 10.67 |
| | Subtotal | 614.05 | 220.79 | 272.93 | 80.82 | 96.08 | 1,284.67 |
| | Total | 622.86 | 225.04 | 292.40 | 81.81 | 99.33 | 1,321.44 |

Figure 4-18: 6.0M Scenario-Building Economic Losses in Thousands of Dollars



Shoal Creek Earthquake Scenario—Essential Facility Losses

Before the earthquake, the region had 3,417 care beds available for use. On the day of the earthquake, the model estimates that only 1,531 care beds (45.0%) are available for use by patients already in medical care facilities and those injured by the earthquake. After one week, 91% of the beds will be back in service. By day 30, 98.0% will be operational.

Vulnerability to Future Assets/Infrastructure for Earthquake Hazard

New construction, especially critical facilities, will accommodate earthquake mitigation design standards.

Analysis of Community Development Trends

Community development will occur outside of the low-lying areas in floodplains with a water table within five feet of grade which are susceptible to liquefaction. Furthermore, St. Clair County will continue to provide training to county officials, implement public education, and institute leaders who are proactive in mapping and studying the risks of earthquakes in the county.

4.4.4 Thunderstorm Hazard

Hazard Definition for Thunderstorm Hazard

Severe thunderstorms are defined as thunderstorms with one or more of the following characteristics: strong winds, large damaging hail, and frequent lightning. Severe thunderstorms most frequently occur in Illinois in the spring and summer months and in the late afternoon or evening, but can occur any month of the year at any time of day. A severe thunderstorm's impacts can be localized or can be widespread in nature. A thunderstorm is classified as severe when it meets one or more of the following criteria:

- Hail of diameter 0.75 inches or higher
- Frequent and dangerous lightning
- Wind speeds equal to or greater than 58 mph

Hail

Hail can be a product of a strong thunderstorm. Hail usually falls near the center of a storm; however strong winds occurring at high altitudes in the thunderstorm can blow the hailstones away from the storm center, resulting in a broader distribution. Hailstones range from pea-sized to baseball-sized, but hailstones larger than softballs have been reported on rare occasions.

Lightning

Lightning is a discharge of electricity from a thunderstorm. Lightning is often perceived as a minor hazard, but in reality lightning causes damage to many structures and kills or severely injures numerous people in the United States each year.

Severe Winds (Straight-Line Winds)

Straight-line winds from thunderstorms are a fairly common occurrence across Illinois. Straight-line winds can cause damage to homes, businesses, power lines, and agricultural areas and may require temporary sheltering of individuals who are without power for extended periods of time.

Previous Occurrences for Thunderstorm Hazard

The NCDC database reported 208 hailstorms in St. Clair County since 1955. These storms have been attributed with \$8,000 in property damage. Hailstorms occur nearly every year in the late spring and early summer months. The most recent significant occurrence of hail occurred on March 8, 2009 when severe thunderstorms produced damaging winds, large hail and tornadoes.

St. Clair County hailstorms are listed in Table 4-34; additional details for NCDC events are included in Appendix D.

St. Clair County Multi-Hazard Mitigation Plan

Table 4-34: St. Clair County Hailstorms*

| Location | Date | Type | Size | Deaths | Injuries | Property Damage |
|-----------|------------|------|----------|--------|----------|-----------------|
| St. Clair | 11/15/1955 | Hail | 1.25 in. | 0 | 0 | 0 |
| St. Clair | 4/14/1956 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 3/14/1957 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 12/18/1957 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 4/24/1958 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 8/5/1961 | Hail | 2.00 in. | 0 | 0 | 0 |
| St. Clair | 6/24/1962 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 4/2/1964 | Hail | 2.00 in. | 0 | 0 | 0 |
| St. Clair | 3/30/1968 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 4/23/1970 | Hail | 1.50 in. | 0 | 0 | 0 |
| St. Clair | 4/23/1970 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 6/7/1971 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 4/11/1972 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 4/11/1972 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 8/21/1972 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 8/21/1972 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 7/9/1973 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 4/1/1974 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 4/1/1974 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 4/3/1974 | Hail | 2.00 in. | 0 | 0 | 0 |
| St. Clair | 4/3/1974 | Hail | 2.75 in. | 0 | 0 | 0 |
| St. Clair | 5/29/1974 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 6/14/1974 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 9/28/1974 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 4/18/1975 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 5/8/1975 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 5/19/1975 | Hail | 2.00 in. | 0 | 0 | 0 |
| St. Clair | 8/29/1975 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 3/20/1976 | Hail | 3.00 in. | 0 | 0 | 0 |
| St. Clair | 3/20/1976 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 8/9/1977 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 5/12/1978 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 5/28/1978 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 8/25/1978 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 8/25/1978 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 10/12/1978 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 4/11/1980 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 8/10/1980 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 4/2/1982 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 6/7/1982 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 6/7/1982 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 7/4/1982 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 7/4/1982 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 5/1/1983 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 9/6/1983 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 4/3/1984 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 8/8/1984 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 11/9/1984 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 11/19/1985 | Hail | 2.00 in. | 0 | 0 | 0 |
| St. Clair | 5/13/1986 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 7/9/1986 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 7/6/1987 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 7/6/1987 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 7/6/1987 | Hail | 3.50 in. | 0 | 0 | 0 |
| St. Clair | 7/6/1987 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 7/6/1987 | Hail | 3.50 in. | 0 | 0 | 0 |
| St. Clair | 4/5/1988 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 5/8/1988 | Hail | 0.75 in. | 0 | 0 | 0 |

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| Location | Date | Type | Size | Deaths | Injuries | Property Damage |
|---------------|------------|------|----------|--------|----------|-----------------|
| St. Clair | 4/3/1989 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 6/1/1989 | Hail | 1.00 in. | 0 | 0 | 0 |
| St. Clair | 6/1/1989 | Hail | 2.00 in. | 0 | 0 | 0 |
| St. Clair | 5/16/1990 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 4/15/1992 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 7/4/1992 | Hail | 1.50 in. | 0 | 0 | 0 |
| St. Clair | 7/4/1992 | Hail | 1.75 in. | 0 | 0 | 0 |
| St. Clair | 4/19/1993 | Hail | 1.75 in. | 0 | 0 | 5K |
| Smithton | 5/6/1993 | Hail | 1.00 in. | 0 | 0 | 0 |
| New Athens | 5/6/1993 | Hail | 1.00 in. | 0 | 0 | 1K |
| Dupo | 4/15/1994 | Hail | 0.75 in. | 0 | 0 | 0 |
| Millstadt | 4/15/1994 | Hail | 1.00 in. | 0 | 0 | 1K |
| Scott AFB. | 4/15/1994 | Hail | 0.75 in. | 0 | 0 | 0 |
| Freeburg | 4/26/1994 | Hail | 1.00 in. | 0 | 0 | 0 |
| Mascoutah | 4/26/1994 | Hail | 0.75 in. | 0 | 0 | 0 |
| Centreville | 4/27/1994 | Hail | 0.75 in. | 0 | 0 | 0 |
| Belleville | 4/27/1994 | Hail | 1.75 in. | 0 | 0 | 1K |
| Belleville | 4/27/1994 | Hail | 0.75 in. | 0 | 0 | 0 |
| Belleville | 5/13/1995 | Hail | 1.75 in. | 0 | 0 | 0 |
| Smithton | 5/16/1995 | Hail | 0.75 in. | 0 | 0 | 0 |
| Freeburg | 5/16/1995 | Hail | 0.75 in. | 0 | 0 | 0 |
| Smithton | 5/18/1995 | Hail | 1.75 in. | 0 | 0 | 0 |
| Marissa | 3/5/1996 | Hail | 0.75 in. | 0 | 0 | 0 |
| Belleville | 4/19/1996 | Hail | 0.75 in. | 0 | 0 | 0 |
| Mascoutah | 4/19/1996 | Hail | 1.75 in. | 0 | 0 | 0 |
| O Fallon | 4/19/1996 | Hail | 1.00 in. | 0 | 0 | 0 |
| Scott AFB | 4/19/1996 | Hail | 2.00 in. | 0 | 0 | 0 |
| Marissa | 5/2/1996 | Hail | 0.75 in. | 0 | 0 | 0 |
| Scott AFB | 5/25/1996 | Hail | 1.50 in. | 0 | 0 | 0 |
| Lebanon | 5/25/1996 | Hail | 1.00 in. | 0 | 0 | 0 |
| Smithton | 7/19/1996 | Hail | 1.75 in. | 0 | 0 | 0 |
| New Athens | 7/19/1996 | Hail | 1.00 in. | 0 | 0 | 0 |
| Cahokia | 7/28/1996 | Hail | 0.75 in. | 0 | 0 | 0 |
| Fairview Hgts | 10/17/1996 | Hail | 1.75 in. | 0 | 0 | 0 |
| Cahokia | 3/28/1997 | Hail | 0.75 in. | 0 | 0 | 0 |
| Fayetteville | 6/6/1997 | Hail | 1.00 in. | 0 | 0 | 0 |
| Millstadt | 4/13/1998 | Hail | 1.00 in. | 0 | 0 | 0 |
| Belleville | 4/13/1998 | Hail | 0.75 in. | 0 | 0 | 0 |
| Freeburg | 4/13/1998 | Hail | 0.75 in. | 0 | 0 | 0 |
| Marissa | 4/15/1998 | Hail | 1.75 in. | 0 | 0 | 0 |
| Freeburg | 4/15/1998 | Hail | 1.75 in. | 0 | 0 | 0 |
| Freeburg | 5/21/1998 | Hail | 0.75 in. | 0 | 0 | 0 |
| Smithton | 6/20/1998 | Hail | 0.75 in. | 0 | 0 | 0 |
| St. Clair | 7/3/1998 | Hail | 0.75 in. | 0 | 0 | 0 |
| O Fallon | 2/27/1999 | Hail | 1.00 in. | 0 | 0 | 0 |
| Fairview Hgts | 6/4/1999 | Hail | 0.75 in. | 0 | 0 | 0 |
| Belleville | 6/11/1999 | Hail | 0.75 in. | 0 | 0 | 0 |
| Fairmont City | 4/6/2000 | Hail | 0.75 in. | 0 | 0 | 0 |
| Fairmont City | 4/6/2000 | Hail | 1.75 in. | 0 | 0 | 0 |
| Millstadt | 4/7/2000 | Hail | 0.75 in. | 0 | 0 | 0 |
| Millstadt | 4/7/2000 | Hail | 1.00 in. | 0 | 0 | 0 |
| New Athens | 4/7/2000 | Hail | 1.00 in. | 0 | 0 | 0 |
| Belleville | 4/16/2000 | Hail | 1.00 in. | 0 | 0 | 0 |
| Freeburg | 4/16/2000 | Hail | 0.88 in. | 0 | 0 | 0 |
| Mascoutah | 5/12/2000 | Hail | 0.75 in. | 0 | 0 | 0 |
| Dupo | 7/2/2000 | Hail | 0.88 in. | 0 | 0 | 0 |
| Belleville | 8/6/2000 | Hail | 0.75 in. | 0 | 0 | 0 |
| Belleville | 8/6/2000 | Hail | 0.75 in. | 0 | 0 | 0 |
| Fairview Hgts | 8/6/2000 | Hail | 1.25 in. | 0 | 0 | 0 |
| Marissa | 4/12/2002 | Hail | 0.75 in. | 0 | 0 | 0 |
| Marissa | 4/12/2002 | Hail | 0.75 in. | 0 | 0 | 0 |
| Millstadt | 4/27/2002 | Hail | 0.75 in. | 0 | 0 | 0 |
| Belleville | 4/27/2002 | Hail | 1.00 in. | 0 | 0 | 0 |

St. Clair County Multi-Hazard Mitigation Plan

| Location | Date | Type | Size | Deaths | Injuries | Property Damage |
|---------------|------------|------|----------|--------|----------|-----------------|
| Fairview Hgts | 4/4/2003 | Hail | 0.75 in. | 0 | 0 | 0 |
| Belleville | 4/4/2003 | Hail | 1.75 in. | 0 | 0 | 0 |
| Belleville | 4/4/2003 | Hail | 1.50 in. | 0 | 0 | 0 |
| Lebanon | 4/4/2003 | Hail | 1.00 in. | 0 | 0 | 0 |
| Fairview Hgts | 4/4/2003 | Hail | 1.00 in. | 0 | 0 | 0 |
| New Athens | 5/6/2003 | Hail | 1.00 in. | 0 | 0 | 0 |
| New Athens | 5/6/2003 | Hail | 1.75 in. | 0 | 0 | 0 |
| New Athens | 5/8/2003 | Hail | 0.75 in. | 0 | 0 | 0 |
| Cahokia | 5/10/2003 | Hail | 1.00 in. | 0 | 0 | 0 |
| Dupo | 5/10/2003 | Hail | 1.75 in. | 0 | 0 | 0 |
| Floraville | 5/23/2004 | Hail | 0.88 in. | 0 | 0 | 0 |
| Smithton | 5/23/2004 | Hail | 0.88 in. | 0 | 0 | 0 |
| Lebanon | 5/26/2004 | Hail | 0.75 in. | 0 | 0 | 0 |
| O Fallon | 5/26/2004 | Hail | 0.75 in. | 0 | 0 | 0 |
| Scott AFB | 5/27/2004 | Hail | 0.75 in. | 0 | 0 | 0 |
| Mascoutah | 5/27/2004 | Hail | 0.75 in. | 0 | 0 | 0 |
| Freeburg | 6/16/2004 | Hail | 0.88 in. | 0 | 0 | 0 |
| Marissa | 7/5/2004 | Hail | 0.88 in. | 0 | 0 | 0 |
| Belleville | 7/22/2004 | Hail | 1.25 in. | 0 | 0 | 0 |
| Belleville | 7/22/2004 | Hail | 0.88 in. | 0 | 0 | 0 |
| Fairview Hgts | 7/22/2004 | Hail | 0.88 in. | 0 | 0 | 0 |
| New Athens | 3/31/2005 | Hail | 0.75 in. | 0 | 0 | 0 |
| New Athens | 3/31/2005 | Hail | 0.88 in. | 0 | 0 | 0 |
| Belleville | 8/10/2005 | Hail | 0.88 in. | 0 | 0 | 0 |
| Belleville | 11/5/2005 | Hail | 0.75 in. | 0 | 0 | 0 |
| New Athens | 11/5/2005 | Hail | 0.75 in. | 0 | 0 | 0 |
| Scott AFB | 11/5/2005 | Hail | 1.00 in. | 0 | 0 | 0 |
| Freeburg | 2/16/2006 | Hail | 0.75 in. | 0 | 0 | 0 |
| Mascoutah | 2/16/2006 | Hail | 1.75 in. | 0 | 0 | 0 |
| Mascoutah | 2/16/2006 | Hail | 1.00 in. | 0 | 0 | 0 |
| Marissa | 3/11/2006 | Hail | 0.75 in. | 0 | 0 | 0 |
| Belleville | 4/2/2006 | Hail | 0.75 in. | 0 | 0 | 0 |
| Belleville | 4/2/2006 | Hail | 0.88 in. | 0 | 0 | 0 |
| Millstadt | 4/19/2006 | Hail | 0.75 in. | 0 | 0 | 0 |
| New Athens | 4/30/2006 | Hail | 0.75 in. | 0 | 0 | 0 |
| New Athens | 4/30/2006 | Hail | 0.75 in. | 0 | 0 | 0 |
| Belleville | 5/1/2006 | Hail | 0.88 in. | 0 | 0 | 0 |
| Belleville | 5/1/2006 | Hail | 1.00 in. | 0 | 0 | 0 |
| Belleville | 5/24/2006 | Hail | 1.75 in. | 0 | 0 | 0 |
| Scott AFB | 5/24/2006 | Hail | 1.75 in. | 0 | 0 | 0 |
| Shiloh | 5/24/2006 | Hail | 1.25 in. | 0 | 0 | 0 |
| Marissa | 5/24/2006 | Hail | 0.75 in. | 0 | 0 | 0 |
| Marissa | 5/24/2006 | Hail | 1.00 in. | 0 | 0 | 0 |
| New Athens | 5/31/2006 | Hail | 0.75 in. | 0 | 0 | 0 |
| Summerfield | 6/22/2006 | Hail | 0.75 in. | 0 | 0 | 0 |
| Lebanon | 7/21/2006 | Hail | 1.75 in. | 0 | 0 | 0 |
| Sauget | 3/1/2007 | Hail | 0.75 in. | 0 | 0 | 0 |
| Belleville | 4/3/2007 | Hail | 0.88 in. | 0 | 0 | 0 |
| Belleville | 4/3/2007 | Hail | 0.75 in. | 0 | 0 | 0 |
| Freeburg | 4/3/2007 | Hail | 1.00 in. | 0 | 0 | 0 |
| Freeburg | 4/3/2007 | Hail | 1.00 in. | 0 | 0 | 0 |
| Freeburg | 4/3/2007 | Hail | 0.88 in. | 0 | 0 | 0 |
| Mascoutah | 4/3/2007 | Hail | 0.75 in. | 0 | 0 | 0 |
| Millstadt | 4/3/2007 | Hail | 0.75 in. | 0 | 0 | 0 |
| Freeburg | 4/3/2007 | Hail | 0.88 in. | 0 | 0 | 0 |
| New Athens | 4/3/2007 | Hail | 0.75 in. | 0 | 0 | 0 |
| Belleville | 4/3/2007 | Hail | 0.88 in. | 0 | 0 | 0 |
| Mascoutah | 5/10/2007 | Hail | 0.75 in. | 0 | 0 | 0 |
| Belleville | 7/9/2007 | Hail | 1.00 in. | 0 | 0 | 0 |
| Fairview Hgts | 7/9/2007 | Hail | 1.00 in. | 0 | 0 | 0 |
| Belleville | 8/24/2007 | Hail | 0.88 in. | 0 | 0 | 0 |
| St. Clair | 10/18/2007 | Hail | 0.75 in. | 0 | 0 | 0 |
| Mascoutah | 4/3/2008 | Hail | 0.88 in. | 0 | 0 | 0 |

St. Clair County Multi-Hazard Mitigation Plan

| Location | Date | Type | Size | Deaths | Injuries | Property Damage |
|---------------------|-----------|------|----------|--------|----------|-----------------|
| Belleville | 5/13/2008 | Hail | 1.00 in. | 0 | 0 | 0 |
| Belleville | 5/13/2008 | Hail | 0.88 in. | 0 | 0 | 0 |
| Fairview Hgts | 5/13/2008 | Hail | 1.00 in. | 0 | 0 | 0 |
| Smithton | 5/25/2008 | Hail | 0.75 in. | 0 | 0 | 0 |
| Dupo | 5/30/2008 | Hail | 0.75 in. | 0 | 0 | 0 |
| Cahokia | 5/30/2008 | Hail | 1.75 in. | 0 | 0 | 0 |
| Belleville | 5/30/2008 | Hail | 1.00 in. | 0 | 0 | 0 |
| Belleville | 5/30/2008 | Hail | 0.75 in. | 0 | 0 | 0 |
| Swansea | 5/30/2008 | Hail | 0.88 in. | 0 | 0 | 0 |
| Belleville | 5/30/2008 | Hail | 1.00 in. | 0 | 0 | 0 |
| Belleville | 5/30/2008 | Hail | 1.75 in. | 0 | 0 | 0 |
| Belleville | 5/30/2008 | Hail | 1.25 in. | 0 | 0 | 0 |
| Shiloh | 5/30/2008 | Hail | 1.00 in. | 0 | 0 | 0 |
| (blv)Scott AFB Bvle | 5/30/2008 | Hail | 1.00 in. | 0 | 0 | 0 |
| Mascoutah | 5/30/2008 | Hail | 0.75 in. | 0 | 0 | 0 |
| Mascoutah | 5/30/2008 | Hail | 1.00 in. | 0 | 0 | 0 |
| Mascoutah | 6/15/2008 | Hail | 0.88 in. | 0 | 0 | 0 |
| Marissa | 6/15/2008 | Hail | 0.88 in. | 0 | 0 | 0 |
| Mascoutah | 6/27/2008 | Hail | 0.88 in. | 0 | 0 | 0 |
| Belleville | 6/27/2008 | Hail | 1.00 in. | 0 | 0 | 0 |
| (blv)Scott AFB Bvle | 6/27/2008 | Hail | 0.75 in. | 0 | 0 | 0 |
| Shiloh | 6/27/2008 | Hail | 0.75 in. | 0 | 0 | 0 |
| Lebanon | 7/11/2008 | Hail | 1.00 in. | 0 | 0 | 0 |
| Marissa | 3/8/2009 | Hail | 0.88 in. | 0 | 0 | 0 |

Source: NCDC

* NCDC records are estimates of damage compiled by the National Weather Service from various local, state, and federal sources. However, these estimates are often preliminary in nature and may not match the final assessment of economic and property losses related to a given weather event.

The NCDC database identified 302 wind storms reported since 1957. On multiple occasions in the past 50 years trees have been uprooted by severe winds in St. Clair County. These storms have been attributed with one death, 21 injuries and \$1.6 million in property damage in St. Clair and adjacent counties.

As shown in Table 4-35, wind storms have historically occurred year-round with the greatest frequency and damage in April through August.

Table 4-35: St. Clair County Wind Storms*

| Location | Date | Type | Magnitude | Deaths | Injuries | Property Damage |
|-----------|-----------|--------------------|-----------|--------|----------|-----------------|
| St. Clair | 3/14/1957 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| St. Clair | 6/12/1957 | Thunderstorm Winds | 70 kts. | 0 | 0 | 0 |
| St. Clair | 4/24/1958 | Thunderstorm Winds | 50 kts. | 0 | 0 | 0 |
| St. Clair | 3/15/1959 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 7/2/1963 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 4/3/1968 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 4/3/1968 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/22/1969 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/22/1969 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/24/1970 | Thunderstorm Winds | 50 kts. | 0 | 0 | 0 |
| St. Clair | 9/9/1970 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 3/14/1971 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 7/10/1971 | Thunderstorm Winds | N/A | 0 | 0 | 0 |

St. Clair County Multi-Hazard Mitigation Plan

| Location | Date | Type | Magnitude | Deaths | Injuries | Property Damage |
|-----------|------------|--------------------|-----------|--------|----------|-----------------|
| St. Clair | 12/15/1971 | Thunderstorm Winds | 50 kts. | 0 | 0 | 0 |
| St. Clair | 4/11/1972 | Thunderstorm Winds | 56 kts. | 0 | 0 | 0 |
| St. Clair | 6/18/1973 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/18/1973 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 7/9/1973 | Thunderstorm Winds | 68 kts. | 0 | 0 | 0 |
| St. Clair | 11/15/1973 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 4/3/1974 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/9/1974 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/9/1974 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/9/1974 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/14/1974 | Thunderstorm Winds | 58 kts. | 0 | 0 | 0 |
| St. Clair | 9/28/1974 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 7/26/1976 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 7/31/1976 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 2/23/1977 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 3/28/1977 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 5/30/1977 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/30/1977 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 7/24/1977 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 7/24/1977 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 8/7/1977 | Thunderstorm Winds | 65 kts. | 0 | 0 | 0 |
| St. Clair | 8/10/1977 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 8/25/1978 | Thunderstorm Winds | 60 kts. | 0 | 0 | 0 |
| St. Clair | 8/25/1978 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| St. Clair | 8/25/1978 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 3/23/1979 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 7/30/1979 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 8/10/1980 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 9/6/1980 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 9/6/1980 | Thunderstorm Winds | 54 kts. | 0 | 0 | 0 |
| St. Clair | 9/6/1980 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 9/16/1980 | Thunderstorm Winds | 50 kts. | 0 | 0 | 0 |
| St. Clair | 9/22/1980 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| St. Clair | 9/22/1980 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 4/3/1981 | Thunderstorm Winds | 51 kts. | 0 | 0 | 0 |
| St. Clair | 7/20/1981 | Thunderstorm Winds | 61 kts. | 0 | 0 | 0 |
| St. Clair | 7/23/1981 | Thunderstorm Winds | 58 kts. | 0 | 0 | 0 |
| St. Clair | 4/2/1982 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 4/16/1982 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 5/28/1982 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 5/28/1982 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/8/1982 | Thunderstorm Winds | 50 kts. | 0 | 0 | 0 |
| St. Clair | 6/8/1982 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| St. Clair | 6/8/1982 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/15/1982 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 7/4/1982 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 12/2/1982 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 4/27/1983 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 8/5/1983 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 8/5/1983 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 8/6/1983 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 3/15/1984 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| St. Clair | 3/15/1984 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 4/3/1984 | Thunderstorm Winds | N/A | 0 | 0 | 0 |

St. Clair County Multi-Hazard Mitigation Plan

| Location | Date | Type | Magnitude | Deaths | Injuries | Property Damage |
|--------------|------------|--------------------|-----------|--------|----------|-----------------|
| St. Clair | 5/25/1984 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| St. Clair | 5/25/1984 | Thunderstorm Winds | 58 kts. | 0 | 0 | 0 |
| St. Clair | 9/10/1984 | Thunderstorm Winds | 56 kts. | 0 | 0 | 0 |
| St. Clair | 7/9/1986 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 7/11/1986 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| St. Clair | 6/2/1987 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/25/1987 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 8/8/1987 | Thunderstorm Winds | 61 kts. | 0 | 0 | 0 |
| St. Clair | 8/26/1987 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/8/1988 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/8/1988 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 7/17/1988 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| St. Clair | 6/26/1989 | Thunderstorm Winds | 53 kts. | 0 | 0 | 0 |
| St. Clair | 11/15/1989 | Thunderstorm Winds | 70 kts. | 1 | 20 | 0 |
| St. Clair | 7/20/1990 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 10/3/1990 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/15/1991 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/15/1991 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 7/9/1991 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 8/8/1991 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 4/16/1992 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 6/13/1992 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 7/14/1992 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| St. Clair | 7/16/1992 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 7/16/1992 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 9/7/1992 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 9/9/1992 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 9/9/1992 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 9/20/1992 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| Belleville | 5/6/1993 | Thunderstorm Winds | N/A | 0 | 0 | 5K |
| Cahokia | 8/23/1993 | Thunderstorm Wind | N/A | 0 | 0 | 1K |
| Belleville | 8/23/1993 | Thunderstorm Wind | N/A | 0 | 0 | 50K |
| Floraville | 4/15/1994 | Thunderstorm Winds | N/A | 0 | 0 | 50K |
| Freeburg | 4/15/1994 | Thunderstorm Winds | N/A | 0 | 0 | 5K |
| New Athens | 4/15/1994 | Thunderstorm Winds | N/A | 0 | 0 | 50K |
| Dupo | 4/26/1994 | Thunderstorm Winds | N/A | 0 | 0 | 1K |
| Belleville | 4/26/1994 | Thunderstorm Winds | N/A | 0 | 0 | 5K |
| Belleville | 4/27/1994 | Thunderstorm Winds | N/A | 0 | 0 | 5K |
| St. Clair | 4/18/1995 | High Winds | N/A | 0 | 0 | 400K |
| Mascoutah | 5/13/1995 | Thunderstorm Winds | N/A | 0 | 0 | 0K |
| Freeburg | 5/16/1995 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| Swansea | 5/16/1995 | Thunderstorm Winds | N/A | 0 | 0 | 1K |
| Belleville | 5/16/1995 | Thunderstorm Winds | N/A | 0 | 0 | 2K |
| O'Fallon | 5/16/1995 | Thunderstorm Winds | N/A | 0 | 0 | 1K |
| Scott AFB | 5/16/1995 | Thunderstorm Winds | N/A | 0 | 0 | 0K |
| Mascoutah | 5/16/1995 | Thunderstorm Winds | N/A | 0 | 0 | 15K |
| Freeburg | 5/18/1995 | Thunderstorm Winds | N/A | 0 | 0 | 1K |
| Fayetteville | 5/18/1995 | Thunderstorm Winds | N/A | 0 | 0 | 1K |
| New Athens | 6/10/1995 | Thunderstorm Winds | N/A | 0 | 0 | 0K |
| Christopher | 6/27/1995 | Thunderstorm Winds | N/A | 0 | 0 | 0 |
| St. Clair | 4/28/1996 | High Wind | 61 kts. | 0 | 0 | 0 |
| Lenzburg | 5/27/1996 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Marissa | 5/27/1996 | Thunderstorm Winds | 58 kts. | 0 | 0 | 5K |
| New Athens | 7/19/1996 | Thunderstorm Winds | 55 kts. | 0 | 0 | 2K |

St. Clair County Multi-Hazard Mitigation Plan

| Location | Date | Type | Magnitude | Deaths | Injuries | Property Damage |
|---------------|------------|--------------------|-----------|--------|----------|-----------------|
| Belleville | 7/19/1996 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Marissa | 7/19/1996 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Marissa | 8/15/1996 | Thunderstorm Winds | 50 kts. | 0 | 0 | 0 |
| St. Clair | 9/26/1996 | High Wind | 45 kts. | 0 | 0 | 140K |
| Belleville | 10/17/1996 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| Mascoutah | 10/17/1996 | Thunderstorm Winds | 51 kts. | 0 | 0 | 0 |
| Cahokia | 10/22/1996 | Thunderstorm Winds | 50 kts. | 0 | 0 | 0 |
| St. Clair | 4/30/1997 | High Wind | 45 kts. | 0 | 0 | 0 |
| Collinsville | 4/30/1997 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| Fayetteville | 6/6/1997 | Thunderstorm Winds | 50 kts. | 0 | 0 | 5K |
| Belleville | 6/13/1997 | Thunderstorm Winds | 50 kts. | 0 | 0 | 4K |
| Summerfield | 6/21/1997 | Thunderstorm Winds | 50 kts. | 0 | 0 | 4K |
| Millstadt | 6/21/1997 | Thunderstorm Winds | 61 kts. | 0 | 0 | 10K |
| Freeburg | 6/21/1997 | Thunderstorm Winds | 65 kts. | 0 | 0 | 50K |
| Lenzburg | 6/21/1997 | Thunderstorm Winds | 61 kts. | 0 | 0 | 0 |
| Marissa | 6/21/1997 | Thunderstorm Winds | 61 kts. | 0 | 0 | 0 |
| O Fallon | 5/21/1998 | Thunderstorm Winds | 54 kts. | 0 | 0 | 0 |
| Centerville | 5/23/1998 | Thunderstorm Winds | 51 kts. | 0 | 0 | 0 |
| O Fallon | 5/23/1998 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Freeburg | 5/23/1998 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Lebanon | 5/23/1998 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Freeburg | 6/18/1998 | Thunderstorm Winds | 64 kts. | 0 | 0 | 0 |
| Mascoutah | 6/18/1998 | Thunderstorm Winds | 60 kts. | 0 | 0 | 0 |
| Marissa | 6/20/1998 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Cahokia | 7/3/1998 | Thunderstorm Winds | 50 kts. | 0 | 0 | 0 |
| Fairview Hgts | 7/22/1998 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Dupo | 7/22/1998 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Belleville | 8/31/1998 | Thunderstorm Winds | 51 kts. | 0 | 0 | 0 |
| East St Louis | 11/10/1998 | Thunderstorm Winds | 56 kts. | 0 | 0 | 0 |
| Belleville | 11/10/1998 | Thunderstorm Winds | 56 kts. | 0 | 0 | 0 |
| Mascoutah | 2/11/1999 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Millstadt | 4/10/1999 | Thunderstorm Winds | 50 kts. | 0 | 0 | 0 |
| Millstadt | 4/10/1999 | Thunderstorm Winds | 50 kts. | 0 | 0 | 2K |
| Cahokia | 6/8/1999 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Belleville | 6/11/1999 | Thunderstorm Winds | 56 kts. | 0 | 0 | 0 |
| Fairview Hgts | 6/11/1999 | Thunderstorm Winds | 56 kts. | 0 | 0 | 100K |
| Caseyville | 7/9/1999 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| Cahokia | 7/9/1999 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| Venice | 7/9/1999 | Thunderstorm Winds | 52 kts. | 0 | 0 | 5K |
| Belleville | 6/14/2000 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Freeburg | 6/14/2000 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Mascoutah | 6/14/2000 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Mascoutah | 6/24/2000 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| Belleville | 6/24/2000 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| St. Clair | 6/26/2000 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Dupo | 7/2/2000 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Cahokia | 7/2/2000 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Sauget | 7/2/2000 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Centerville | 7/2/2000 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Marissa | 7/11/2000 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| Marissa | 7/11/2000 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| Caseyville | 8/17/2000 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| Fairview Hgts | 8/17/2000 | Thunderstorm Winds | 61 kts. | 0 | 0 | 0 |
| O Fallon | 8/17/2000 | Thunderstorm Winds | 61 kts. | 0 | 0 | 0 |

St. Clair County Multi-Hazard Mitigation Plan

| Location | Date | Type | Magnitude | Deaths | Injuries | Property Damage |
|---------------|------------|--------------------|-----------|--------|----------|-----------------|
| Belleville | 8/17/2000 | Thunderstorm Winds | 66 kts. | 0 | 0 | 0 |
| Scott AFB | 8/17/2000 | Thunderstorm Winds | 66 kts. | 0 | 0 | 0 |
| Lebanon | 8/17/2000 | Thunderstorm Winds | 61 kts. | 0 | 0 | 0 |
| St. Clair | 8/17/2000 | Thunderstorm Winds | 50 kts. | 0 | 0 | 0 |
| Swansea | 8/17/2000 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Belleville | 8/17/2000 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Freeburg | 8/17/2000 | Thunderstorm Winds | 50 kts. | 0 | 0 | 0 |
| St. Clair | 2/25/2001 | High Wind | 40 kts. | 0 | 0 | 0 |
| St. Clair | 3/13/2001 | High Wind | 45 kts. | 0 | 0 | 0 |
| Belleville | 4/9/2001 | Thunderstorm Winds | 51 kts. | 0 | 0 | 0 |
| O Fallon | 7/17/2001 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Belleville | 7/17/2001 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| St. Clair | 8/24/2001 | Thunderstorm Winds | 61 kts. | 0 | 0 | 0 |
| Cahokia | 8/25/2001 | Thunderstorm Winds | 53 kts. | 0 | 0 | 0 |
| Belleville | 8/25/2001 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Mascoutah | 8/25/2001 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Dupo | 9/8/2001 | Thunderstorm Winds | 60 kts. | 0 | 0 | 0 |
| East St Louis | 9/8/2001 | Thunderstorm Winds | 65 kts. | 0 | 0 | 600K |
| Belleville | 9/8/2001 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Sauget | 10/24/2001 | Thunderstorm Winds | 60 kts. | 0 | 0 | 0 |
| Belleville | 10/24/2001 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Belleville | 10/24/2001 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Fairview Hgts | 10/24/2001 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Mascoutah | 10/24/2001 | Thunderstorm Winds | 51 kts. | 0 | 0 | 5K |
| St. Clair | 3/9/2002 | High Wind | 43 kts. | 0 | 0 | 0 |
| Freeburg | 4/21/2002 | Thunderstorm Winds | 54 kts. | 0 | 0 | 0 |
| St. Clair | 4/27/2002 | Thunderstorm Winds | 62 kts. | 0 | 0 | 0 |
| New Athens | 5/7/2002 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| East St Louis | 6/10/2002 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Lebanon | 6/11/2002 | Thunderstorm Winds | 55 kts. | 0 | 1 | 0 |
| Belleville | 6/11/2002 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Millstadt | 6/11/2002 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Fairview Hgts | 7/22/2002 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| O Fallon | 7/22/2002 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Mascoutah | 7/22/2002 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Dupo | 4/4/2003 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Belleville | 6/10/2003 | Thunderstorm Winds | 78 kts. | 0 | 0 | 0 |
| St. Clair | 6/10/2003 | Thunderstorm Winds | 90 kts. | 0 | 0 | 0 |
| O Fallon | 6/10/2003 | Thunderstorm Winds | 78 kts. | 0 | 0 | 0 |
| Shiloh | 6/10/2003 | Thunderstorm Winds | 78 kts. | 0 | 0 | 0 |
| Swansea | 6/10/2003 | Thunderstorm Winds | 78 kts. | 0 | 0 | 0 |
| Lebanon | 6/10/2003 | Thunderstorm Winds | 70 kts. | 0 | 0 | 0 |
| Freeburg | 6/10/2003 | Thunderstorm Winds | 61 kts. | 0 | 0 | 0 |
| Mascoutah | 6/10/2003 | Thunderstorm Winds | 70 kts. | 0 | 0 | 0 |
| Belleville | 7/18/2003 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Scott AFB | 8/4/2003 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Belleville | 9/26/2003 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Belleville | 5/24/2004 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| Lebanon | 5/24/2004 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| Summerfield | 5/24/2004 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| New Athens | 5/27/2004 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| Belleville | 5/30/2004 | Thunderstorm Winds | 56 kts. | 0 | 0 | 0 |
| Cahokia | 5/30/2004 | Thunderstorm Winds | 56 kts. | 0 | 0 | 0 |
| Scott AFB | 5/30/2004 | Thunderstorm Winds | 84 kts. | 0 | 0 | 0 |

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| Location | Date | Type | Magnitude | Deaths | Injuries | Property Damage |
|-----------------|-----------|--------------------|-----------|--------|----------|-----------------|
| Scott AFB | 5/30/2004 | Thunderstorm Winds | 70 kts. | 0 | 0 | 0 |
| Scott AFB | 5/30/2004 | Thunderstorm Winds | 63 kts. | 0 | 0 | 0 |
| Shiloh | 5/31/2004 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Freeburg | 6/16/2004 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| O Fallon | 7/5/2004 | Thunderstorm Winds | 60 kts. | 0 | 0 | 0 |
| Shiloh | 7/5/2004 | Thunderstorm Winds | 60 kts. | 0 | 0 | 0 |
| Scott AFB | 7/5/2004 | Thunderstorm Winds | 60 kts. | 0 | 0 | 0 |
| Lebanon | 7/5/2004 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| Scott AFB | 7/5/2004 | Thunderstorm Winds | 61 kts. | 0 | 0 | 0 |
| Scott AFB | 7/5/2004 | Thunderstorm Winds | 80 kts. | 0 | 0 | 0 |
| O Fallon | 7/5/2004 | Thunderstorm Winds | 75 kts. | 0 | 0 | 0 |
| Summerfield | 7/5/2004 | Thunderstorm Winds | 70 kts. | 0 | 0 | 0 |
| Freeburg | 7/5/2004 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Smithton | 7/5/2004 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Marissa | 7/5/2004 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Marissa | 7/5/2004 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| St Libory | 8/19/2004 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Marissa | 8/19/2004 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Belleville | 5/19/2005 | Thunderstorm Winds | 53 kts. | 0 | 0 | 0 |
| Cahokia | 5/19/2005 | Thunderstorm Winds | 53 kts. | 0 | 0 | 0 |
| Freeburg | 6/8/2005 | Thunderstorm Winds | 54 kts. | 0 | 0 | 0 |
| Belleville | 6/8/2005 | Thunderstorm Winds | 54 kts. | 0 | 0 | 0 |
| New Athens | 6/8/2005 | Thunderstorm Winds | 54 kts. | 0 | 0 | 0 |
| O Fallon | 6/8/2005 | Thunderstorm Winds | 54 kts. | 0 | 0 | 0 |
| Marissa | 6/8/2005 | Thunderstorm Winds | 54 kts. | 0 | 0 | 0 |
| Belleville | 6/13/2005 | Thunderstorm Winds | 62 kts. | 0 | 0 | 0 |
| Mascoutah | 6/13/2005 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Belleville | 7/4/2005 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Mascoutah | 7/4/2005 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Freeburg | 7/4/2005 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Cahokia | 8/10/2005 | Thunderstorm Winds | 57 kts. | 0 | 0 | 0 |
| Dupo | 8/10/2005 | Thunderstorm Winds | 57 kts. | 0 | 0 | 0 |
| Sauget | 8/10/2005 | Thunderstorm Winds | 57 kts. | 0 | 0 | 0 |
| Belleville | 8/10/2005 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Belleville | 8/13/2005 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Lebanon | 8/13/2005 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Summerfield | 8/13/2005 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Dupo | 9/19/2005 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Fairview Hgts | 9/19/2005 | Thunderstorm Winds | 57 kts. | 0 | 0 | 0 |
| Marissa | 2/16/2006 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| Belleville | 3/13/2006 | Thunderstorm Winds | 59 kts. | 0 | 0 | 0 |
| Millstadt | 4/2/2006 | Thunderstorm Winds | 56 kts. | 0 | 0 | 0 |
| Cahokia | 4/2/2006 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Lebanon | 4/2/2006 | Thunderstorm Winds | 60 kts. | 0 | 0 | 0 |
| Marissa | 5/24/2006 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| Belleville | 6/17/2006 | Thunderstorm Winds | 61 kts. | 0 | 0 | 0 |
| East St Louis | 7/19/2006 | Thunderstorm Winds | 65 kts. | 0 | 0 | 0 |
| St. Clair | 7/19/2006 | Thunderstorm Winds | 51 kts. | 0 | 0 | 0 |
| East Carondelet | 7/19/2006 | Thunderstorm Winds | 61 kts. | 0 | 0 | 0 |
| O Fallon | 7/19/2006 | Thunderstorm Winds | 61 kts. | 0 | 0 | 0 |
| Fairview Hgts | 7/21/2006 | Thunderstorm Winds | 60 kts. | 0 | 0 | 0 |
| O Fallon | 7/21/2006 | Thunderstorm Winds | 60 kts. | 0 | 0 | 0 |
| Shiloh | 7/21/2006 | Thunderstorm Winds | 60 kts. | 0 | 0 | 0 |
| Lebanon | 7/21/2006 | Thunderstorm Winds | 60 kts. | 0 | 0 | 0 |

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| Location | Date | Type | Magnitude | Deaths | Injuries | Property Damage |
|---------------------|------------|--------------------|-----------|--------|----------|-----------------|
| Summerfield | 7/21/2006 | Thunderstorm Winds | 60 kts. | 0 | 0 | 0 |
| Mascoutah | 7/21/2006 | Thunderstorm Winds | 52 kts. | 0 | 0 | 0 |
| Freeburg | 7/21/2006 | Thunderstorm Winds | 55 kts. | 0 | 0 | 0 |
| Smithton | 5/10/2007 | Thunderstorm Wind | N/A | 0 | 0 | 10K |
| Freeburg | 5/10/2007 | Thunderstorm Wind | N/A | 0 | 0 | 5K |
| Cahokia | 7/9/2007 | Thunderstorm Wind | N/A | 0 | 0 | 0 |
| Belleville | 8/13/2007 | Thunderstorm Wind | N/A | 0 | 0 | 0 |
| East St Louis | 8/24/2007 | Thunderstorm Wind | N/A | 0 | 0 | 0 |
| Mascoutah | 5/30/2008 | Thunderstorm Wind | 58 kts. | 0 | 0 | 10K |
| Freeburg | 6/4/2008 | Thunderstorm Wind | 51 kts. | 0 | 0 | 0 |
| New Athens | 6/4/2008 | Thunderstorm Wind | 52 kts. | 0 | 0 | 0 |
| Mascoutah | 6/4/2008 | Thunderstorm Wind | 56 kts. | 0 | 0 | 0 |
| Mascoutah | 6/27/2008 | Thunderstorm Wind | 56 kts. | 0 | 0 | 0 |
| Belleville | 6/27/2008 | Thunderstorm Wind | 52 kts. | 0 | 0 | 0 |
| (blv)Scott AFB Bvle | 6/27/2008 | Thunderstorm Wind | 50 kts. | 0 | 0 | 0 |
| St Libory | 6/27/2008 | Thunderstorm Wind | 56 kts. | 0 | 0 | 0 |
| (blv)Scott AFB Bvle | 7/11/2008 | Thunderstorm Wind | 52 kts. | 0 | 0 | 0 |
| Lebanon | 8/5/2008 | Thunderstorm Wind | 52 kts. | 0 | 0 | 0 |
| Fairview Hgts | 12/27/2008 | Thunderstorm Wind | 61 kts. | 0 | 0 | 0 |

Source: NCDC

* NCDC records are estimates of damage compiled by the National Weather Service from various local, state, and federal sources. However, these estimates are often preliminary in nature and may not match the final assessment of economic and property losses related to a given weather event.

Geographic Location for Thunderstorm Hazard

The entire county has the same risk for occurrence of thunderstorms. They can occur at any location within the county.

Hazard Extent for Thunderstorm Hazard

The extent of the historical thunderstorms listed previously varies in terms of the extent of the storm, the wind speed, and the size of hailstones. Thunderstorms can occur at any location within the county.

Calculated Risk Priority Index for Thunderstorm Hazard

Based on historical information, the probability of future high wind damage is highly likely. High winds with widely varying magnitudes are expected to happen. According to the planning team, thunderstorms and high wind damage ranked as the number eight hazard.

RPI = Probability x Magnitude/Severity.

| | | | | |
|-------------|---|---------------------|---|-----|
| Probability | x | Magnitude /Severity | = | RPI |
| 4 | x | 1 | = | 4 |

Vulnerability Analysis for Thunderstorm Hazard

Severe thunderstorms are an evenly distributed threat across the entire jurisdiction; therefore, the entire county's population and all buildings are susceptible to severe thunderstorms and can expect the same impacts. This plan will therefore consider all buildings located within the county as vulnerable. The existing buildings and infrastructure in St. Clair County are discussed in types and numbers in Table 4-10.

Critical Facilities

All critical facilities are vulnerable to severe thunderstorms. A critical facility will encounter many of the same impacts as any other building within the jurisdiction. These impacts include structural failure, debris (trees or limbs) causing damage, roofs blown off or windows broken by hail or high winds, fires caused by lightning, and loss of function of the facility (e.g. a damaged police station will no longer be able to serve the community). Table 4-8 lists the types and numbers of all essential facilities in the area. Critical facility information, including replacement costs, is included in Appendix F. A map of the critical facilities is included in Appendix G.

Building Inventory

A table of the building exposure in terms of types and numbers of buildings for the entire county is provided in 4-9. The buildings within the county can all expect the same impacts, similar to those discussed for critical facilities. These impacts include structural failure, debris (trees or limbs) causing damage, roofs blown off or windows broken by hail or high winds, fires caused by lightning, and loss of building functionality (e.g. a damaged home will no longer be habitable causing residence to seek shelter).

Infrastructure

During a severe thunderstorm, the types of infrastructure that could be impacted include roadways, utility lines/pipes, railroads, and bridges. Since the county's entire infrastructure is equally vulnerable, it is important to emphasize that any number of these items could become damaged during a severe thunderstorm. The impacts to these items include broken, failed or impassable roadways; broken or failed utility lines (e.g. loss of power or gas to community); or railway failure from broken or impassable railways. Bridges could fail or become impassable causing risk to traffic.

Vulnerability to Future Assets/Infrastructure for Thunderstorm Hazard

All future development within the county and all communities will remain vulnerable to these events.

Analysis of Community Development Trends

Preparing for severe storms will be enhanced if officials sponsor a wide range of programs and initiatives to address the overall safety of county residents. New structures need to be built with more sturdy construction, and those structures already in place need to be hardened to lessen the potential impacts of severe weather. Community warning sirens to provide warning of approaching storms are also vital to preventing the loss of property and ensuring the safety of St. Clair County residents.

4.4.5 Drought and Extreme Heat Hazard

Hazard Definition for Drought Hazard

Drought is a climatic phenomenon that occurs in St. Clair County. The meteorological condition that creates a drought is below normal rainfall. However, excessive heat can lead to increased evaporation, which will enhance drought conditions. Droughts can occur in any month. Drought differs from normal arid conditions found in low rainfall areas. Drought is the consequence of a reduction in the amount of precipitation over an undetermined length of time (usually a growing season or more).

The severity of a drought depends on location, duration, and geographical extent. Additionally, drought severity depends on the water supply, usage demands made by human activities, vegetation, and agricultural operations. Drought brings several different problems that must be addressed. The quality and quantity of crops, livestock, and other agricultural assets will be affected during a drought. Drought can adversely impact forested areas leading to an increased potential for extremely destructive forest and woodland fires that could threaten residential, commercial, and recreational structures.

Hazard Definition for Extreme Heat Hazard

Drought conditions are often accompanied by extreme heat, which is defined as temperatures that hover 10 degrees or more above the average high for the area and last for several weeks. Extreme heat can occur in humid conditions when high atmospheric pressure traps the damp air near the ground or in dry conditions, which often provoke dust storms.

Common Terms Associated with Extreme Heat

Heat Wave: Prolonged period of excessive heat, often combined with excessive humidity

Heat Index: A number in degrees Fahrenheit that tells how hot it feels when relative humidity is added to air temperature. Exposure to full sunshine can increase the heat index by 15 degrees.

Heat Cramps: Muscular pains and spasms due to heavy exertion. Although heat cramps are the least severe, they are often the first signal that the body is having trouble with heat.

Heat Exhaustion: Typically occurs when people exercise heavily or work in a hot, humid place where body fluids are lost through heavy sweating. Blood flow to the skin increases, causing blood flow to decrease to the vital organs, resulting in a form of mild shock. If left untreated, the victim's condition will worsen. Body temperature will continue to rise and the victim may suffer heat stroke.

Heat Stroke: A life-threatening condition. The victim's temperature control system, which produces sweat to cool the body, stops working. The body's temperature can rise so high that brain damage and death may result if the body is not cooled quickly.

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Sun Stroke: Another term for heat stroke.

Source: FEMA

Previous Occurrences for Drought and Extreme Heat Hazard

The NCDC database reported 30 drought/heat wave events in St. Clair County since 1994. These drought and extreme heat events have been attributed with 22 deaths, 502 injuries and \$55,000 in property damage in St. Clair and adjacent counties. A recent example of extreme heat wave occurred between August 4th and August 16th 2007 when high temperatures were consistently from the middle 90s to around 100 with the Heat Index from 105 to 110 degrees. Two deaths were reported in Madison County and one in St. Clair County. Two were found in homes that did not have air conditioning, and for the third the air conditioning was not working. Many schools across the area went to an early dismissal schedule in order to combat the heat.

NCDC records of droughts/heat waves are identified in Table 4-36. Additional details for NCDC events are included in Appendix D.

Table 4-36: St. Clair County Drought/Heat Wave Events*

| Date | Type | Deaths | Injuries | Property Damage |
|-----------|----------------|--------|----------|-----------------|
| 6/12/1994 | Heat | 0 | 10 | 0 |
| 7/11/1995 | Heat | 2 | 95 | 50K |
| 7/28/1995 | Heat | 0 | 30 | 5K |
| 8/9/1995 | Heat | 2 | 97 | 0 |
| 6/23/1998 | Excessive Heat | 1 | 122 | 0 |
| 7/18/1998 | Excessive Heat | 0 | 19 | 0 |
| 7/18/1999 | Excessive Heat | 8 | 119 | 0 |
| 6/19/2001 | Excessive Heat | 1 | 0 | 0 |
| 7/7/2001 | Excessive Heat | 0 | 0 | 0 |
| 7/17/2001 | Excessive Heat | 0 | 0 | 0 |
| 7/29/2001 | Excessive Heat | 0 | 0 | 0 |
| 8/1/2001 | Excessive Heat | 0 | 0 | 0 |
| 8/7/2001 | Excessive Heat | 0 | 0 | 0 |
| 8/21/2001 | Excessive Heat | 0 | 0 | 0 |
| 7/8/2002 | Excessive Heat | 0 | 0 | 0 |
| 7/20/2002 | Excessive Heat | 0 | 0 | 0 |
| 7/26/2002 | Excessive Heat | 0 | 0 | 0 |
| 8/1/2002 | Excessive Heat | 0 | 0 | 0 |
| 7/3/2003 | Excessive Heat | 0 | 0 | 0 |
| 8/15/2003 | Excessive Heat | 0 | 0 | 0 |
| 8/24/2003 | Excessive Heat | 1 | 0 | 0 |
| 7/9/2004 | Excessive Heat | 0 | 0 | 0 |
| 7/20/2004 | Excessive Heat | 0 | 0 | 0 |
| 6/23/2005 | Excessive Heat | 2 | 0 | 0 |
| 7/20/2005 | Excessive Heat | 1 | 0 | 0 |
| 8/1/2005 | Drought | 0 | 0 | 0 |
| 7/14/2006 | Excessive Heat | 0 | 4 | 0 |
| 7/29/2006 | Excessive Heat | 1 | 0 | 0 |
| 8/1/2006 | Excessive Heat | 1 | 0 | 0 |
| 8/4/2007 | Excessive Heat | 2 | 6 | 0 |

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Source: NCDC

* NCDC records are estimates of damage compiled by the National Weather Service from various local, state, and federal sources. However, these estimates are often preliminary in nature and may not match the final assessment of economic and property losses related to a given weather event.

Geographic Location for Drought and Extreme Heat Hazard

Droughts are regional in nature. All areas of the United States are vulnerable to the risk of drought and extreme heat.

Hazard Extent for Drought and Extreme Heat Hazard

Droughts and extreme heat can be widespread or localized events. The extent of the droughts varies both in terms of the extent of the heat and the range of precipitation.

Risk Identification for Drought/Extreme Heat Hazard

Based on historical information, the probability of future drought and extreme heat is likely. Drought and extreme heat expected to happen. According to the planning team, drought and extreme heat ranked as the number seven hazard.

RPI = Probability x Magnitude/Severity.

| | | | | |
|-------------|---|---------------------|---|-----|
| Probability | x | Magnitude /Severity | = | RPI |
| 3 | x | 2 | = | 6 |

Vulnerability Analysis for Drought and Extreme Heat Hazard

Drought and extreme heat impacts are an equally distributed threat across the entire jurisdiction; therefore, the county is vulnerable to this hazard and can expect the same impacts within the affected area. According to FEMA, approximately 175 Americans die each year from extreme heat. Young children, elderly, and infirmed populations have the greatest risk.

The entire population and all buildings have been identified as at risk. The building exposure for St. Clair County, as determined from the building inventory is included in Table 4-10.

Critical Facilities

All critical facilities are vulnerable to drought. A critical facility will encounter many of the same impacts as any other building within the jurisdiction, which should involve only minor damage. These impacts include water shortages, fires as a result of drought conditions, and residents in need of medical care from the heat and dry weather. Table 4-9 lists the types and numbers of all of the essential facilities in the area. Critical facility information, including replacement costs, is included in Appendix F. A map of the critical facilities is included in Appendix G.

Building Inventory

A table of the building exposure in terms of types and numbers of buildings for the entire county is listed in Table 4-10. The buildings within the county can all expect the same impacts similar to those discussed for critical facilities. These impacts include water shortages, fires as a result of drought conditions, and residents in need of medical care from the heat and dry weather.

Infrastructure

During a drought the types of infrastructure that could be impacted include roadways, utility lines/pipes, railroads, and bridges. The risk to these structures is primarily associated with a fire that could result from the hot, dry conditions. Since the county's entire infrastructure is equally vulnerable, it is important to emphasize that any number of these items could become damaged during a heat wave. The impacts to these items include broken, failed, or impassable roadways; broken or failed utility lines (e.g. loss of power or gas to community); or railway failure from broken or impassable railways. Bridges could fail or become impassable causing risk to traffic.

Vulnerability to Future Assets/Infrastructure for Drought/Extreme Heat Hazard

Future development will remain vulnerable to these events. Typically, some urban and rural areas are more susceptible than others. For example, urban areas are subject to water shortages during periods of drought. Excessive demands of the populated area place a limit on water resources. In rural areas, crops and livestock may suffer from extended periods of heat and drought. Dry conditions can lead to the ignition of wildfires that could threaten residential, commercial, and recreational areas.

Analysis of Community Development Trends

Because the droughts and extreme heat are regional in nature future development will be impacted across the county. Although urban and rural areas are equally vulnerable to this hazard, those living in urban areas may have a greater risk from the effects of a prolonged heat wave. The atmospheric conditions that create extreme heat tend to trap pollutants in urban areas, adding contaminated air to the excessively hot temperatures and creating increased health problems. Furthermore, asphalt and concrete store heat longer, gradually releasing it at night and producing high nighttime temperatures. This phenomenon is known as the "urban heat island effect" (*Source: FEMA*).

Local officials should address the drought and extreme heat hazard by educating the public on steps to take before and during the event—for example, temporary window reflectors to direct heat back outside, staying indoors as much as possible, and avoiding strenuous work during the warmest part of the day.

4.4.6 Winter Storm Hazard

Hazard Definition for Winter Storm Hazard

Severe winter weather consists of various forms of precipitation and strong weather conditions. This may include one or more of the following conditions: freezing rain, sleet, heavy snow, blizzards, icy roadways, extreme low temperatures, and strong winds. These conditions can cause human health risks such as frostbite, hypothermia, and death.

Ice (glazing) and Sleet Storms

Ice or sleet, even in small quantities, can result in hazardous driving conditions and can cause property damage. Sleet involves frozen raindrops that bounce when they hit the ground or other objects. Sleet does not stick to trees and wires. Ice storms, on the other hand, involve liquid rain that falls through subfreezing air and/or onto sub-freezing surfaces, freezing on contact with those surfaces. The ice coats trees, buildings, overhead wires, and roadways, sometimes causing extensive damage.

The most damaging winter storms in southern Illinois have been ice storms. Ice storms occur when moisture-laden gulf air converges with the northern jet stream causing strong winds and heavy precipitation. This precipitation takes the form of freezing rain coating power and communication lines and trees with heavy ice. The winds will then cause the overburdened limbs and cables to snap; leaving large sectors of the population without power, heat, or communication. In the past few decades, including the winters of 2007–09, numerous ice storm events have occurred in southern Illinois.

Snow Storms

Significant snow storms are characterized by the rapid accumulation of snow, often accompanied by high winds, cold temperatures, and low visibility. A blizzard is categorized as a snow storm with winds of 35 miles per hour or greater and/or visibility of less than ¼ mile for three or more hours. Blizzards are the most dramatic and perilous of all winter storm events. Most snow within a blizzard is in the form of fine, powdery particles, which are wind-blown in such great quantities that visibility is reduced to only a few feet. Blizzards have the potential to result in property damage.

Illinois has repeatedly been struck by blizzards, although they are less common in the southern part of the state. Blizzard conditions can cause power outages, loss of communication, and make transportation impossible. The blowing of snow can reduce visibility to less than ¼ mile, resulting in disorientation that can make even travel by foot dangerous.

Severe Cold

Severe cold is characterized by the ambient air temperature that may drop to 0°F or below. These extreme temperatures can increase the likelihood of frostbite and hyperthermia. High winds during

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severe cold events can enhance the air temperature's effects. Fast winds during cold weather events can lower the Wind Chill Factor (how cold the air feels on your skin), which can lower the time it takes for frostbite and hypothermia to affect a person's body.

Previous Occurrences for Winter Storm Hazard

The NCDC database identified 28 winter storm and extreme cold events for St. Clair County since 1995. These storms have been attributed with two deaths, six injuries, and \$5,000 in property damage. A recent example a winter storm occurred on February 23, 2008 when a winter storm dropped about two inches of snow in parts of Monroe, St. Clair, Randolph, and Marion counties. The snow caused several auto accidents in St. Clair County.

The NCDC winter storms for St. Clair County are listed in Table 4-37. Additional details for NCDC events are included in Appendix D.

Table 4-37: Winter Storm Events*

| Location | Date | Type | Deaths | Injuries | Property Damage |
|------------|------------|-------------------|--------|----------|-----------------|
| St. Clair | 1/3/1995 | Cold | 1 | 6 | 0 |
| St. Clair | 12/16/2000 | Extreme Windchill | 1 | 0 | 0 |
| Belleville | 6/13/2005 | Funnel Cloud | 0 | 0 | 0 |
| St. Clair | 1/6/1995 | Glaze Ice | 0 | 0 | 5K |
| St. Clair | 12/13/2000 | Heavy Snow | 0 | 0 | 0 |
| St. Clair | 1/13/1999 | Ice Storm | 0 | 0 | 0 |
| St. Clair | 12/19/1995 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 1/2/1996 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 11/25/1996 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 1/8/1997 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 1/15/1997 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 4/10/1997 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 1/12/1998 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 1/22/1998 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 12/21/1998 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 1/1/1999 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 3/13/1999 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 1/28/2000 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 3/11/2000 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 1/26/2001 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 2/25/2002 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 12/4/2002 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 12/24/2002 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 2/23/2003 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 12/13/2003 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 1/25/2004 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 12/8/2005 | Winter Storm | 0 | 0 | 0 |
| St. Clair | 2/23/2008 | Winter Weather | 0 | 0 | 0 |

Source: NCDC

* NCDC records are estimates of damage compiled by the National Weather Service from various local, state, and federal sources. However, these estimates are often preliminary in nature and may not match the final assessment of economic and property losses related to a given weather event.

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Geographic Location for Winter Storm Hazard

Severe winter storms are regional in nature. Most of the NCDC data is calculated regionally or in some cases statewide.

Hazard Extent for Winter Storm Hazard

The extent of the historical winter storms listed previously varies in terms of storm extent, temperature, and ice or snowfall. Severe winter storms affect the entire jurisdiction equally.

Calculated Risk Priority Index for Winter Storm Hazard

Based on historical information, the probability of future winter storms are highly likely. Winter storms of varying magnitudes are expected to happen. According to the St. Clair County planning team RPI assessment, winter storms ranked as the number two hazard.

RPI = Probability x Magnitude/Severity.

| | | | | |
|-------------|---|---------------------|---|-----|
| Probability | x | Magnitude /Severity | = | RPI |
| 4 | x | 4 | = | 16 |

Vulnerability Analysis for Winter Storm Hazard

Winter storm impacts are evenly distributed across the jurisdiction; therefore the entire county is vulnerable to winter storms and can expect the same impacts within the affected area. The building exposure for St. Clair County, as determined from the building inventory, is included in Table 4-9.

Critical Facilities

All critical facilities are vulnerable to a winter storm. A critical facility will encounter many of the same impacts as any other buildings within the jurisdiction. These impacts include loss of gas or electricity from broken or damaged utility lines, roads and railways damaged or impassable, broken water pipes, and roof collapse from heavy snow. Table 4-8 lists the types and numbers of the essential facilities in the area. Critical facility information, including replacement costs, is included in Appendix F. A map of the critical facilities is included in Appendix G.

Building Inventory

Table 4-9 lists the building exposure in terms of types and numbers of buildings for the entire county. The impacts to the building stock within the county are similar to the damages expected to the critical facilities, including loss of gas or electricity from broken or damaged utility lines, roads and railways damaged or impassable, broken water pipes, and roof collapse from heavy snow.

Infrastructure

During a winter storm, the types of infrastructure that could be impacted include roadways, utility lines/pipes, railroads and bridges. Since the county's entire infrastructure is equally vulnerable, it is important to emphasize that any number of these items could become damaged during a winter storm. Potential impacts include broken gas and/or electricity lines, or damaged utility lines, damaged or impassable roads and railways, and broken water pipes.

Vulnerability to Future Assets/Infrastructure for Winter Storm Hazard

Any new development within the county will remain vulnerable to these events.

Analysis of Community Development Trends

Because the winter storm events are regional in nature, future development will be impacted across the county. Rural areas in St. Clair County are particularly vulnerable due to the likely hood of long term power outages. Human service agencies, volunteer organizations, the St. Clair County Health Department, medical and health care facilities, and schools have definite roles to play in public education, planning, and response to extreme winter conditions.

4.4.7 Hazardous Materials Storage and Transport Hazard

Hazard Definition for Hazardous Materials Storage and Transport Hazard

Explosions result from the ignition of volatile materials such as petroleum products, natural gas and other flammable gases, hazardous materials/chemicals and dust, and explosive devices. An explosion can potentially cause death, injury, and property damage. In addition, a fire routinely follows an explosion, which may cause further damage and inhibit emergency response. Emergency response may require fire, safety/law enforcement, search and rescue, and hazardous materials units.

Previous Occurrences for Hazardous Materials Storage and Transport Hazard

St. Clair County has not experienced a significant or large-scale hazardous material incident at a fixed site or transportation route that has resulted in multiple deaths or serious injuries.

Geographic Location for Hazardous Materials Storage and Transport Hazard

Fixed locations with large quantities of hazardous material tend to be located in the western portion of St. Clair County within the region known as the American Bottoms. However, several major transportation routes (railway and highway) cross the entire county making nearly every jurisdiction susceptible to a hazardous release.

Hazard Extent for Hazardous Materials Storage and Transport Hazard

The extent of the hazardous material hazard varies both in terms of the quantity of material being transported as well as the specific content of the container.

Calculated Risk Priority Index for Hazardous Materials Storage and Transport Hazard

The possibility of a hazardous materials incident is highly likely, based on input from the planning team. According to the RPI, Hazardous Materials Storage and Transport ranked as the number four hazard.

RPI = Probability x Magnitude/Severity.

| | | | | |
|-------------|---|---------------------|---|-----|
| Probability | x | Magnitude /Severity | = | RPI |
| 4 | x | 2 | = | 8 |

Vulnerability Analysis for Hazardous Materials Storage and Transport Hazard

Hazardous material impacts are evenly distributed across the jurisdiction; therefore the entire county is vulnerable to a release associated with hazardous materials storage or transport and can

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expect the same impacts within the affected area. The building exposure for St. Clair County, as determined from building inventory, is included in Table 4-9. This plan will therefore consider all buildings located within the county as vulnerable.

Critical Facilities

All critical facilities and communities within the county are at risk. A critical facility, if vulnerable, will encounter many of the same impacts as other buildings within the jurisdiction. These impacts include structural failure due to fire or explosion and loss of function of the facility (e.g. a damaged police station will no longer be able to serve the community). Table 4-8 lists the types and numbers of all essential facilities in the area. Critical facility information, including replacement costs, is included in Appendix F. A map of the critical facilities is included in Appendix G.

Building Inventory

Table 4-9 lists the building exposure in terms of type and number of buildings for the entire county. The buildings within the county can all expect the same impacts, similar to those discussed for critical facilities. These impacts include structural failure due to fire or explosion or debris and loss of function of the building (e.g. a damaged home will no longer be habitable causing residence to seek shelter).

Infrastructure

During a hazardous materials release, the types of infrastructure that could be impacted include roadways, utility lines/pipes, railroads, and bridges. Since a full inventory of infrastructure is not available for this plan, it is important to emphasize that any number of these items could become damaged in the event of a hazardous material release. The impacts to these items include broken, failed, or impassable roadways; broken or failed utility lines (e.g. loss of power or gas to community); and railway failure from broken or impassable railways. Bridges could fail or become impassable causing risk to traffic.

The U.S. EPA's ALOHA (Areal Locations of Hazardous Atmospheres) is a computer program designed especially for use by people responding to chemical accidents, as well as for emergency planning and training. ALOHA was utilized to assess the area of impact for an Ammonia release from a chemical facility located in the Village of Sauget located south of the City of East St. Louis. This location was selected because several manufacturing and processing facilities which use ammonia are located here and are in close proximity to dense population center (East St. Louis).

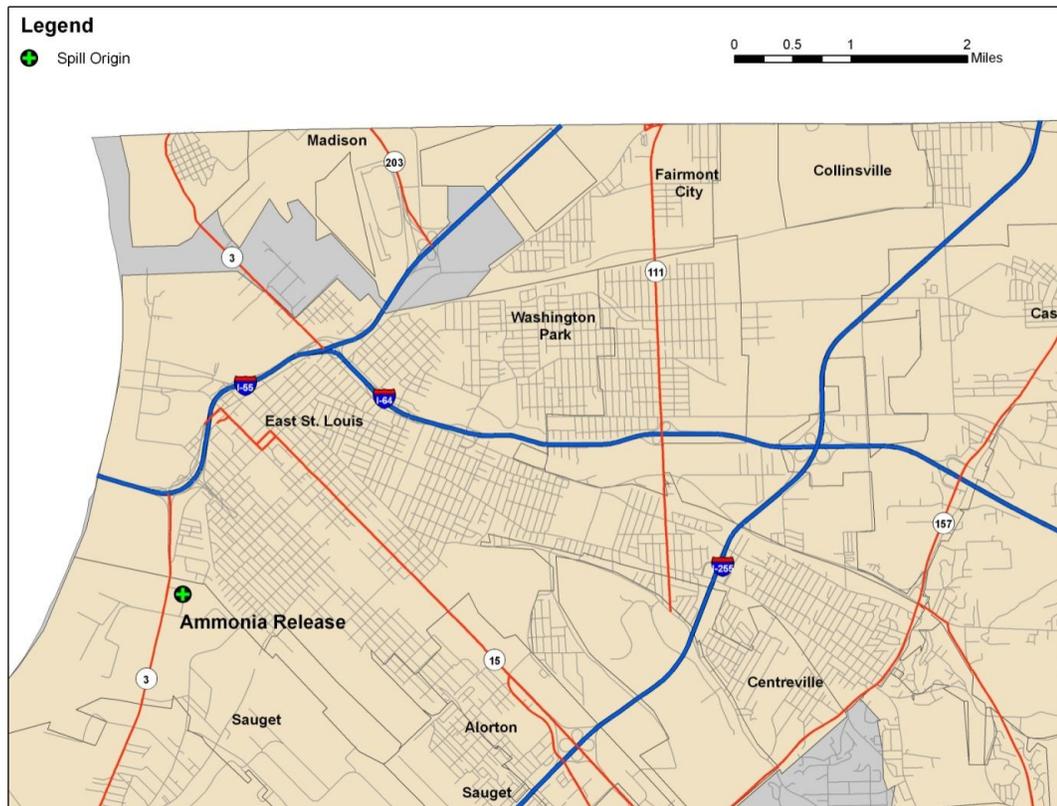
Ammonia is clear colorless liquid consisting of ammonia dissolved in water. It is corrosive to tissue and metals. Although ammonia is lighter than air, the vapors from a leak will initially hug the ground. Long term exposure to low concentrations or short term exposure to high concentrations may result in adverse health conditions from inhalation. Prolonged exposure of containers to fire or heat may result in their violent rupturing and rocketing. Ammonia is generally used as a fertilizer, a refrigerant, and in the manufacture of other chemicals.

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Source: <http://cameochemicals.noaa.gov/chemical/24008>

For this scenario, moderate atmospheric and climatic conditions with a slight breeze from the west-southwest were assumed. The target area was selected for three primary reasons: 1) the large number of facilities which use significant amounts of ammonia in their manufacturing, 2) the area is highly populated, and 3) proximity to several critical facilities. The geographic area covered in this analysis is depicted in Figure 4-19.

Figure 4-19: Location of Chemical



Release

Analysis

The ALOHA atmospheric modeling parameters, depicted in Figure 4-20, were based upon a north-northwesterly wind speed of five miles per hour. The temperature was 68°F with 75% humidity and partly cloudy skies.

The source of the chemical spill is a vertical, cylindrical-shaped tank. The diameter of the tank was set to 12 feet and the length set to 60 feet with 51,611 gallons of ammonia. At the time of its release, it was estimated that the tank was 85% full. The ammonia in this tank is in a liquid state.

This release was based on a leak from a 2.5 inch-diameter hole, at 1 foot above the bottom of the tank.

Figure 4-20: ALOHA Plume Modeling Parameters

SITE DATA:

Location: SAUGET, ILLINOIS
Building Air Exchanges Per Hour: 0.35 (sheltered single storied)
Time: August 17, 2009 1552 hours CDT (user specified)

CHEMICAL DATA:

Chemical Name: AMMONIA Molecular Weight: 17.03 g/mol
ERPG-1: 25 ppm ERPG-2: 150 ppm ERPG-3: 750 ppm
IDLH: 300 ppm LEL: 160000 ppm UEL: 250000 ppm
Ambient Boiling Point: -28.7° F
Vapor Pressure at Ambient Temperature: greater than 1 atm
Ambient Saturation Concentration: 1,000,000 ppm or 100.0%

ATMOSPHERIC DATA: (MANUAL INPUT OF DATA)

Wind: 5 miles/hour from wsw at 3 meters
Ground Roughness: urban or forest Cloud Cover: 5 tenths
Air Temperature: 70° F Stability Class: C
No Inversion Height Relative Humidity: 75%

SOURCE STRENGTH:

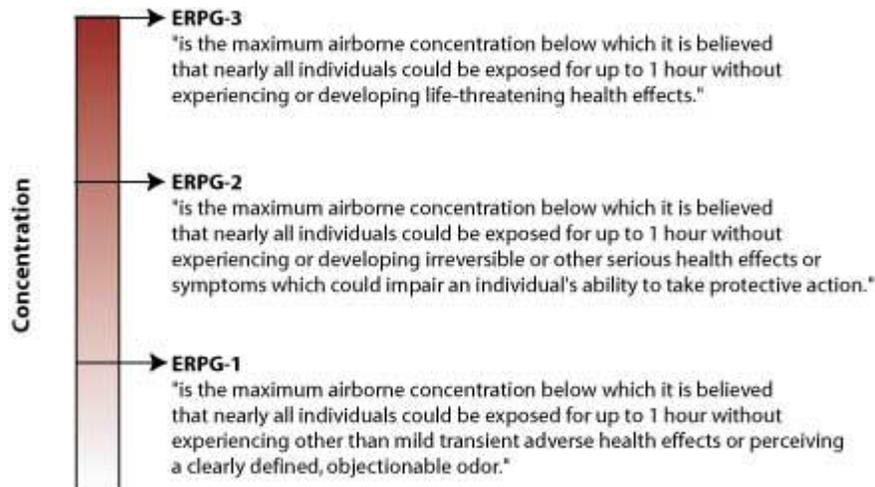
Leak from hole in vertical cylindrical tank
Flammable chemical escaping from tank (not burning)
Tank Diameter: 12.1 feet Tank Length: 60 feet
Tank Volume: 51,611 gallons
Tank contains liquid Internal Temperature: 70° F
Chemical Mass in Tank: 222,922 pounds
Tank is 85% full
Circular Opening Diameter: 2.5 inches
Opening is 12 inches from tank bottom
Release Duration: 37 minutes
Max Average Sustained Release Rate: 8,200 pounds/min
(averaged over a minute or more)
Total Amount Released: 221,436 pounds
Note: The chemical escaped as a mixture of gas and aerosol (two phase flow).

THREAT ZONE:

Model Run: Heavy Gas
Red : 1.4 miles --- (750 ppm = ERPG-3)
Orange: 3.2 miles --- (150 ppm = ERPG-2)
Yellow: greater than 6 miles --- (25 ppm = ERPG-1)

The Emergency Response Planning Guidelines (ERPGs) were developed by the ERPG committee of the American Industrial Hygiene Association. The ERPGs were developed as planning guidelines, to anticipate human adverse health effects caused by exposure to toxic chemicals. The ERPGs are three-tiered guidelines with one common denominator—a one-hour contact duration. Each guideline identifies the substance, its chemical and structural properties, animal toxicology data, human experience, existing exposure guidelines, the rationale behind the selected value, and a list of references. Figure 4-21 illustrates the ERPG three-tiered guidelines.

Figure 4-21: Three-Tiered ERPG Public Exposure Guidelines



The definitions and format are from the ERPG publication.

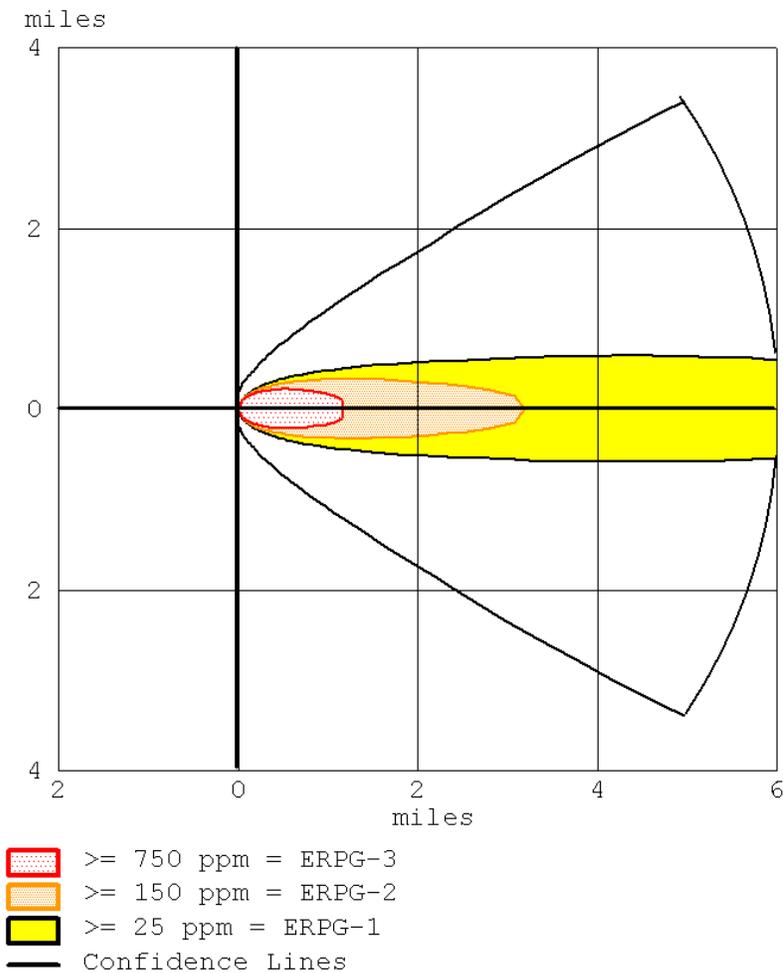
The ERPG guidelines do not protect everyone. Hypersensitive individuals would suffer adverse reactions to concentrations far below those suggested in the guidelines. In addition, ERPGs, like other exposure guidelines, are based mostly on animal studies, thus raising the question of applicability to humans. The guidelines are focused on one period of time—one hour. Exposure in the field may be longer or shorter. However, the ERPG committee strongly advises against trying to extrapolate ERPG values to longer periods of time.

The most important point to remember about the ERPGs is that they do not contain safety factors usually incorporated into exposure guidelines such as the TLV. Rather, they estimate how the general public would react to chemical exposure. Just below the ERPG-1, for example, most people would detect the chemical and may experience temporary, mild effects. Just below the ERPG-3, on the other hand, it is estimated that the effects would be severe, although not life-threatening. The TLV differs in that it incorporates a safety factor into its guidelines, to prevent ill effects. The ERPG should serve as a planning tool, not a standard to protect the public.

Source: <http://archive.orr.noaa.gov/cameo/locs/expguide.html>

According to the ALOHA parameters, approximately 8,200 pounds per minute of material would be released per minute. The image in 4-22 depicts the plume footprint generated by ALOHA.

Figure 4-22: Plume Footprint Generated by ALOHA



As the substance moves away from the source, the level of substance concentration decreases. Each color-coded area depicts a level of concentration measured in parts per million (ppm). For the purpose of clarification, this report will designate each level of concentration as a specific zone. The zones are as follows:

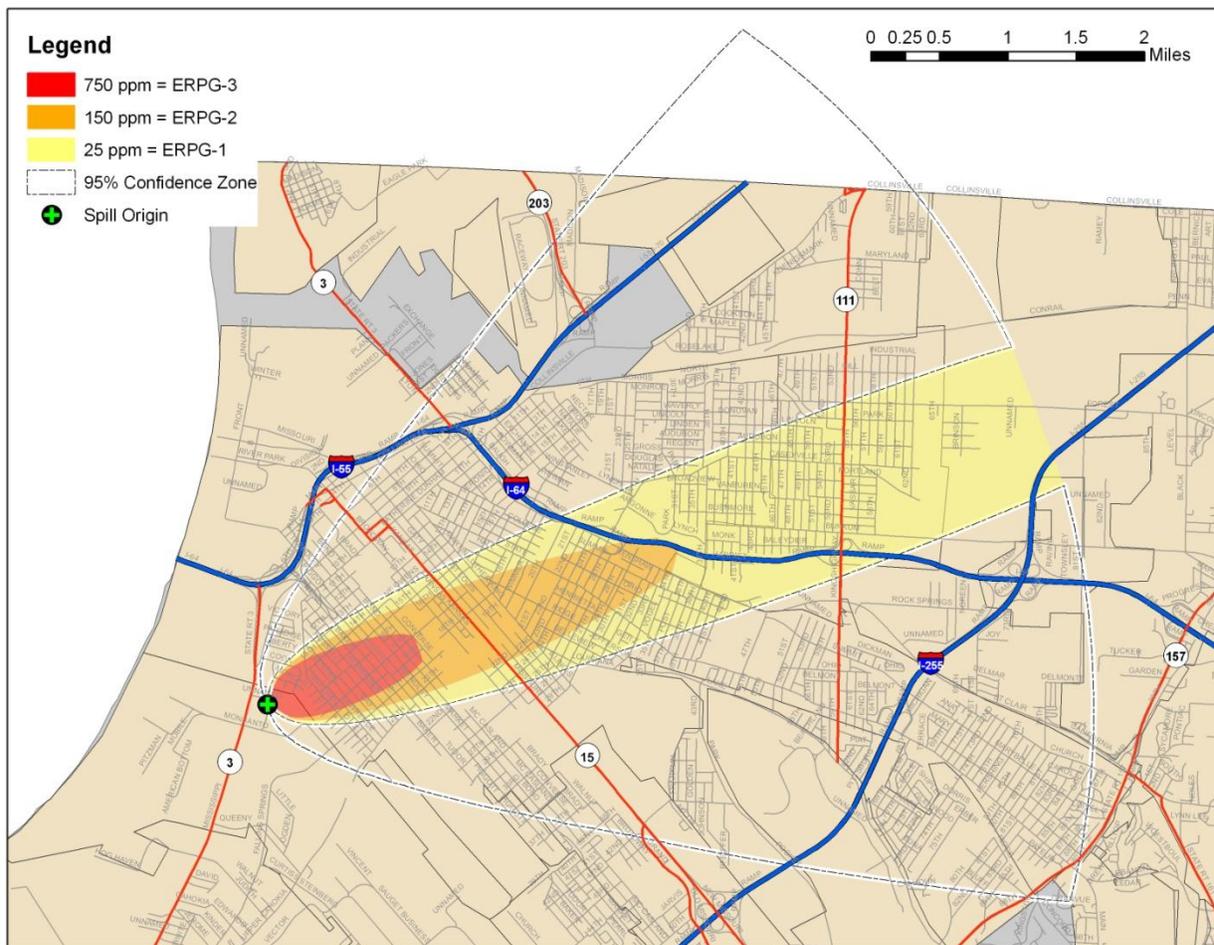
- **Zone 1 (ERPG-3):** The red buffer (≥ 750 ppm) extends no more than 1.4 miles from the point of release after one hour.
- **Zone 2 (ERPG-2):** The orange buffer (≥ 150 ppm) extends no more than 3.2 miles from the point of release after one hour.
- **Zone 3 (ERPG-1):** The yellow buffer (≥ 25 ppm) extends more than 6 miles from the point of release after one hour.

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- **Zone 4 (Confidence Lines):** The dashed lines depict the level of confidence in which the exposure zones will be contained. The ALOHA model is 95% confident that the release will stay within this boundary.

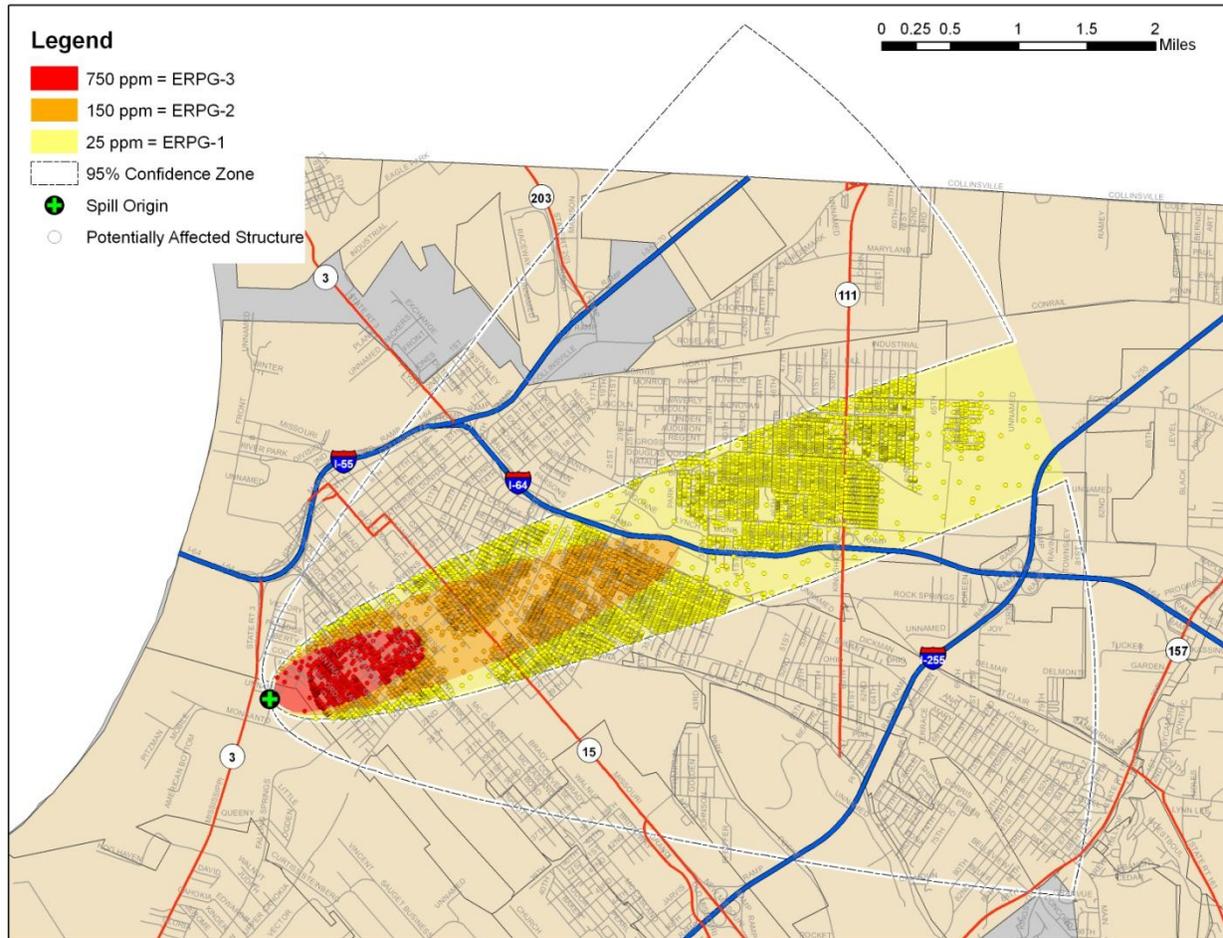
The image in Figure 4-23 depicts the plume footprint generated by ALOHA

Figure 4-23: ALOHA Plume Footprint Overlaid in ArcGIS



The St. Clair County building inventory was added to ArcMap and overlaid with the plume footprint. The structure layer was then intersected with each of the three footprint areas to classify each point based upon the plume footprint in which it is located. Figure 4-24 depicts the St. Clair County structures after the intersect process.

Figure 4-24: St. Clair County Building Inventory Classified By Plume Footprint



Results

By summing the building inventory within all ERPG zones (ERPG-1: 25 ppm, ERPG-2: 150 ppm, and ERPG-3: 750 ppm), the GIS overlay analysis predicts that as many as 7,644 buildings could be exposed which have a replacement cost of approximately \$273.5 million dollars. In addition 12,600 people could be affected.

Building Inventory Damage

The results of the analysis against known structure locations are depicted in Table 4-38. Table 4-39 includes the results of the analysis against the St. Clair County Assessor Data.

Table 4-38: Number of Buildings Exposed

| Occupancy | ERPG-1 | ERPG-2 | ERPG-3 |
|------------------|---------------|---------------|---------------|
| Residential | 3,436 | 1,302 | 310 |
| Commercial | 145 | 98 | 12 |
| Industrial | 1,417 | 577 | 331 |
| Agricultural | 1 | 0 | 0 |
| Exempt* | 0 | 1 | 0 |
| Government* | 2 | 1 | 0 |
| Education* | 6 | 5 | 1 |
| Total | 5,007 | 1,983 | 654 |

Table 4-39: Estimated Building Exposure Occupancy Type

| Occupancy | Zone 1 | Zone 2 | Zone 3 |
|------------------|----------------------|----------------------|---------------------|
| Residential | \$111,754,827 | \$61,044,471 | \$19,847,984 |
| Commercial | \$8,578,539 | \$28,669,122 | \$537,900 |
| Industrial | \$13,459,545 | \$12,094,343 | \$7,896,548 |
| Agriculture | \$26,529 | 0 | 0 |
| Exempt* | 0 | 0 | 0 |
| Government* | \$2,220,000 | \$666,000 | 0 |
| Education* | \$3,330,000 | \$2,775,000 | \$555,000 |
| Total | \$139,369,440 | \$105,248,936 | \$28,837,431 |

* Assessor records often do not distinguish parcels by occupancy class when the parcels are not taxable; therefore, the total number of building and building replacement costs for government, exempt, and non-profit may be underestimated.

Essential Facilities Damage

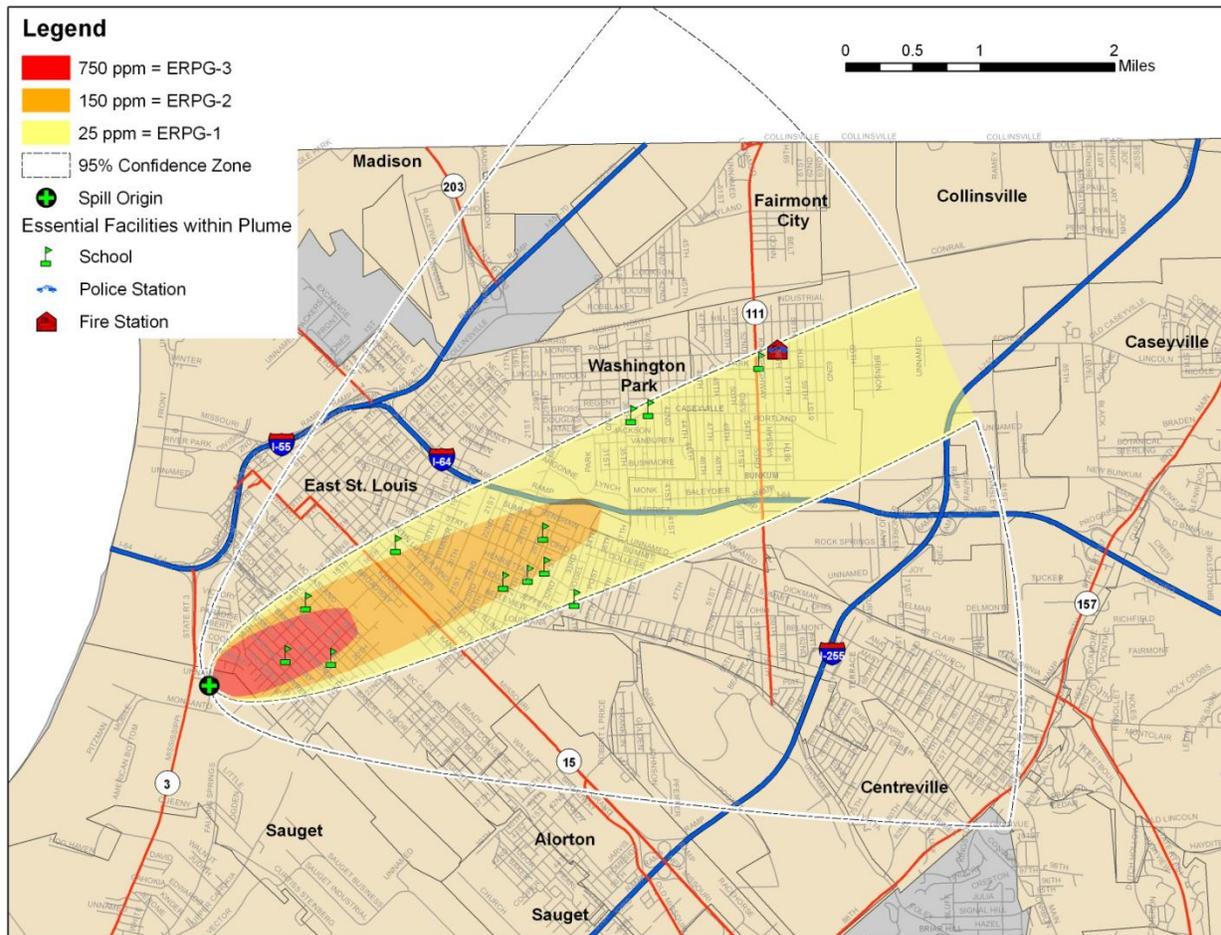
There is 11 schools, one care facility, one fire department, and one police department within the limits of the chemical spill plume. These facilities are identified in Table 4-40. Their geographic locations are depicted in Figure 4-25.

Table 4-40: Essential Facilities within Plume Footprint

| Name |
|----------------------------------|
| Annette Officer Elementary |
| Avant Elementary School |
| Billy Jones Elementary School |
| Clark Middle School |
| Donald McHenry Elementary School |
| Dunbar Elementary School |
| Hawthorne Elementary School |
| John Robinson Elementary School |
| Lucas Elementary School |
| Park Annex Elementary School |
| Wyvetter Younge Middle School |
| Hazel Bland Promise Center |
| Washington Park Fire Department |
| Washington Park Police Dept |

Figure 4-25: Essential Facilities within Plume Footprint

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Vulnerability to Future Assets/Infrastructure for Hazardous Materials Storage and Transport Hazard

A significant portion of the St. Clair County's population lives in close proximity industrial facilities which use or create a variety of hazardous material. In addition, a large number of people live along near major transportation corridors such as Interstates 55, 64, 255, U.S. Route 50, Mississippi River navigation channel, Port of St. Louis, and several major railway lines. Because of these industrial facilities and the major transportation routes which bring hazard materials to these facilities a large portion of St. Clair County is vulnerable to hazard chemical releases.

Analysis of Community Development Trends

Because of the concentration of St. Clair County's Population to industrial facilities and the transportation network, future development is likely to be vulnerable. The major transportation routes in St. Clair County pose a threat of dangerous chemicals and hazardous materials release St.

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Clair County will continue to provide a comprehensive means to mitigate, prepare for, respond to, and recover from hazards relating to hazardous materials releases.

4.4.8 Ground Failure Hazard

Subsidence

Subsidence in Illinois is a sinking of the land surface, usually associated with either underground mining or collapse of soil into crevices in underlying soluble bedrock. Areas at risk for subsidence can be determined from detailed mapping of geologic conditions or detailed mine maps. Data sources were compiled from the Illinois Geologic Survey and Illinois Department of Natural Resources to assess the risk of subsidence in St. Clair County. This section provides an overview of the subsidence hazards in Illinois in general and a discussion of the potential subsidence risk for St. Clair County.

Underground Mining and Subsidence

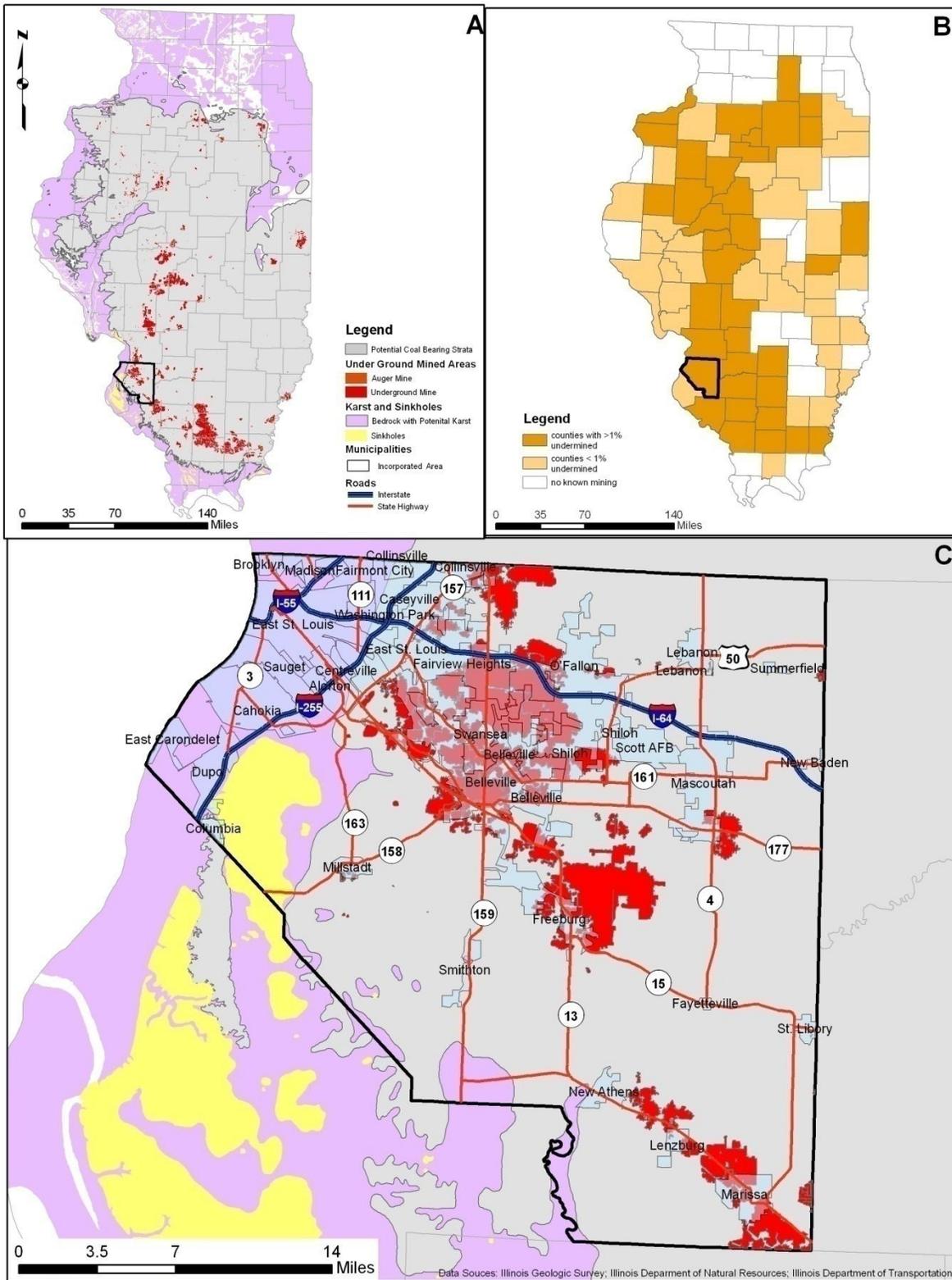
Underground mines have been used extensively in Illinois to extract coal, lead, zinc, fluorites, shale, clay stones, limestone, and dolomite. When mining first began in Illinois, land over mined areas was sparsely populated. If the ground subsided, homes or other structures were seldom damaged. As towns and cities expanded over mined-out areas, subsidence damage to structures became increasingly more common. The most common underground mines in Illinois are coal mines. A recent study in Illinois has found that approximately 333,100 housing units were located over or adjacent to 839,000 acres mined for coal (Bauer, 2008).

Illinois has abundant coal resources. All or parts of 86 of 102 counties in the state have coal-bearing strata. As of 2007, approximately 1,050,400 acres (2.8% of the state) were mined. Of that total, 836,655 acres are underground mines (Bauer, 2008). Illinois ranks first among all U.S. states for reserves of bituminous coal (Illinois Coal Association, 1992).

Figure 4-26a shows the statewide distribution of bedrock with karst potential, coal bearing strata, sink holes, and underground mines. Figure 4-26b shows the counties which are 0, < 1%, and >1% undermined; Figure 4-26c shows the countywide distribution of bedrock with karst potential, coal bearing strata, sink holes, and underground mines.

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Figures 4-26a, 4-26b, and 4-26c: Maps of Statewide and Countywide Areas with Subsidence Hazard Potential



Mining Methods

There are two fundamental underground mining methods used in Illinois: high-extraction methods, such as long-wall and low-extraction room, and pillar mining. High-extraction methods remove almost all of the coal in localized areas. For modern mining practices, subsidence associated with high-extraction methods is planned and regulated by state and federal authorities. The subsurface subsides above the mine within several days or weeks after the coal has been removed. Subsidence of the overburden above the mined-out area can continue up to seven years after subsurface removal, depending on the local geologic conditions (Bauer, 2008). The initial ground movements associated with this mining, which tend to be the largest, diminish rapidly after a few months. After subsidence has decreased to a level that no longer causes damage to structures, the land may be suitable for development. The maximum amount of subsidence is proportional to the amount of material extract and the depth between the mining and the surface. In general, over the centerline of the mine panel, subsidence can be 60% to 70% of the extract material (e.g., 10 ft of material extracted would cause a maximum subsidence of six to seven feet; Bauer, 2006).

For low-extraction techniques such as room-and-pillar mining, miners create openings (rooms) as they work. Enough of the coal layer is left behind in the pillars to support the ground surface. In Illinois, this system of mining extracts 40% to 55% of the coal resources in modern mines and up to 75% in some older mines. Based on current state regulations, room-and-pillar mines in operation after 1983 that do not include planned subsidence must show that they have a stable design. Although these permitting requirements have improved overall mine stability, there are no guarantees that subsidence will not occur above a room-and-pillar mine in the future. In general, if coal or other mined resources has been removed from an area, subsidence of the overlying material is always a possibility (Bauer, 2006).

Types of Mine Subsidence

In Illinois, subsidence of the land surface related to underground mining undertakes two forms: pit subsidence or trough (sag) subsidence. Pit subsidence structures are generally six to eight feet deep and range from two to 40 feet in diameter. Pit subsidence mostly occurs over shallow mines that are <100 feet deep where the overlying bedrock is <50 feet thick and composed of weak rock materials, such as shale. The pit is produced when the mine roof collapses and the roof fall void works its way to the surface. These structures form rapidly. If the bedrock is only a few feet thick and the surface materials are unconsolidated (loose), these materials may fall into adjacent mine voids, producing a surface hole deeper than the height of the collapse mine void. Pit subsidence can cause damage to a structure if it develops under the corner of a building, under a support post of a foundation, or in another critical location. Subsidence pits should be filled to ensure that people or animals do not fall into these structures (Bauer, 2006).

Trough subsidence forms a gentle depression over a broad area. Some trough subsidence may be as large as a whole mine panel (i.e. several hundred feet long and a few hundred feet wide). Several acres of land may be affected by a single trough event or feature. As previously discussed, the maximum vertical settlement is 60% to 70% of the height of material removed (e.g., two to six feet). Significant troughs may develop suddenly, within a few hours or days, or gradually over a

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period of years. Troughs originate over places in mines where pillars have collapsed, producing downward movement at the ground surface. These failures can develop over mines of any depth. Trough subsidence produces an orderly pattern of tensile features (tension cracks) surrounding a central area of possible compression features. The type and extent of damage to surface structures relates to their orientation and position within a trough. In the tension zone, the downward-bending movements that develop in the ground may damage buildings, roads, sewer and water pipes, and other utilities. The downward bending of the ground surface causes the soil to crack, forming the tension cracks that pull structures apart. In the relatively smaller compression zone, roads may buckle and foundation walls may be pushed inward. Buildings damaged by compressional forces typically need their foundations rebuilt and may also need to be leveled due to differential settling (Bauer, 2006).

Mine Subsidence Insurance

The Mine Subsidence Insurance, as of 1979, created subsidence insurance as part of an Illinois homeowner's policy. Homeowners in any of the Illinois counties undermined by approximately 1% or more automatically have mine subsidence insurance as a part of their policy, unless coverage is waived in writing. Mine subsidence insurance is especially important for homes located near or over mines that operated before the 1977 Surface Mine Control and Reclamation Act. The companies that operated these mines may no longer be in business (Bauer, 2006).

Mine Subsidence in St. Clair County

The eastern three-fourths of St. Clair County are underlain by rock units which potentially contain coal. Analysis of the GIS data layer of active and abandoned coal mines in Illinois obtained from the Illinois Department of Natural Resources (ILDNR) revealed that 95.2 mi² out of St. Clair County's total 674.5 mi² (~ 14%) have been undermined. The undermined areas located throughout the central and eastern portions of the County. Towns potentially impact by mine subsidence include Belleville, Caseville, Collinsville, Fairview Heights, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, O'Fallon, Shiloh, and Summer Field. Comparison of the GIS layer of parcels with structures attained from St. Clair County with IDNR GIS layer of active and abandoned underground-coal mines was performed. This analysis revealed that 30,845 out of the 98,340 or ~31% of the buildings in the county were above undermined areas. The 30,845 structures located above underground mines have an estimate value of \$2.67 billion.

Subsidence Related to Karst Features

Subsidence can also occur on land located over soluble bedrock. The land over such bedrock often has topography characteristics of past subsidence events. This topography is termed "karst." Karst terrain has unique landforms and hydrology found only in these areas. Bedrock in karst areas are typically limestone, dolomite, or gypsum. In Illinois, limestone and dolomite (carbonate rocks) are the principle karst rock types; 9% of Illinois has carbonate rock types close enough to the ground surface to have a well-developed karst terrain. The area in Illinois in which the karst terrain is most developed is the southern and southwestern part of the state (Panno, et al., 1997).

Sinkhole Formation

The karst feature most associated with subsidence is the sinkhole. A sinkhole is an area of ground with no natural external surface drainage—when it rains, all of the water stays inside the sinkhole and typically drains into the subsurface. Sinkholes can vary from a few feet to hundreds of acres, and from less than one to more than 100 feet deep. Typically, sinkholes form slowly, so that little change is seen during a lifetime, but they also can form suddenly when a collapse occurs. Such a collapse can have a dramatic effect if it occurs in a populated setting.

Sinkholes form where rainwater moves through the soil and encounters soluble bedrock. The bedrock begins to dissolve along horizontal and vertical cracks and joints in the rock. Eventually, these cracks become large enough to start transporting small soil particles. As these small particles of soil are carried off, the surface of the soil above the conduit slump down gradually, and a small depression forms on the ground surface. This depression acts like a funnel and gathers more water, which makes the conduit still larger and washes more soil into it.

Sinkhole Collapse

Sudden collapse of a sinkhole occurs when the soil close to the ground surface does not initially slump down, but instead forms a bridge. Beneath that surface cover, a void forms where the soil continues to wash into the conduit. These voids are essentially shallow caves. Over time, the void enlarges enough that the weight of the overlying bridge can no longer be supported. The surface layer then suddenly collapses into the void, forming a sinkhole.

The process of forming a conduit and a soil bridge usually takes years to decades to form. However this natural process can be aggravated and expedited by human activities. Since the process of forming a sinkhole depends on water to carry soil particle down into the karst bedrock, anything that increases the amount of water flowing into the subsurface can accelerate sinkhole formation process. Parking lots, streets, altered drainage from construction, and roof drainage are a few of the things that can increase runoff.

Collapses are more frequent after intense rainstorms. However, drought and altering of the water table can also contribute to sinkhole collapse. Areas where the water table fluctuates or has suddenly been lowered are more susceptible to sinkhole collapse. It is also possible for construction activity to induce the collapse of near-surface voids or caves. In areas of karst bedrock, it is imperative that a proper geotechnical assessment be completed prior to construction of any significant structures. Solutions to foundation problems in karst terrain generally are expensive (White, 1988).

Sinkhole Subsidence or Collapse Potential for St. Clair County

Western one-third of St. Clair County is underlain by a significant expanse of near-surface soluble bedrock (Figure 4-26c). An area with a significant concentration of sinkholes has been mapped in the southeastern corner of the County by the Illinois Geologic Survey (ISGS). Analysis of the GIS data layer of sinkholes in Illinois obtained from the ISGS revealed that 24.9 mi² out of St. Clair County's total 674.5 mi² (~ 4%) are mapped as having sinkholes. Towns with a significant

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potentially to be impacted by subsidence related soluble bedrock include Dupo and Columbia. Comparison of the GIS layer of parcels with structures attained from St. Clair County with ISGS GIS layer of sinkholes was performed. This analysis revealed that 838 out of the 98,340 or ~1% of the buildings in the county were within areas of significant sinkhole development. The 838 structures located within these areas have an estimated value of \$111.3 million.

Hazard Extent for Subsidence

The extent of subsidence hazard in St. Clair County is a function of where current development is located relative to areas of past and present underground mining and the occurrence of near-surface soluble bedrock.

Calculated Risk Priority Index for Ground Failure

Based on historical information, future ground failure in the affected regions of St. Clair County is possible. While the planning team did not select ground failure as a potential significant hazard facing the County, several incorporated communities selected ground failure as a potential hazard (Table 4-7)

Vulnerability Analysis for Ground Failure

The existing buildings and infrastructure of St. Clair County are discussed in types and numbers in Table 4-10.

Critical Facilities

Any critical facility built above highly soluble bedrock or an underground mine could be vulnerable to land subsidence. A critical facility will encounter the same impacts as any other building within the affected area. These impacts include damages ranging from cosmetic to structural. Buildings may sustain minor cracks in walls due to a small amount of settling, while in more severe cases, the failure of building foundations can cause cracking of critical structural elements. Table 4-8 lists the essential facilities in the area. Critical facility information, including replacement costs, is included in Appendix F. A map of the critical facilities is included in Appendix G.

Building Inventory

Table 4-9 lists the building exposure in terms of types and numbers of buildings for the entire county. The buildings within this area can anticipate impacts similar to those discussed for critical facilities, ranging from cosmetic to structural. Buildings may sustain minor cracks in walls due to a small amount of settling, while in more severe cases, the failure of building foundations causes cracking of critical structural elements.

Infrastructure

Ground subsidence areas within St. Clair County could impact the roadways, utility lines/pipes, railroads, and bridges. The risk to these structures is primarily associated with land collapsing directly beneath them in a way that undermines their structural integrity. The impacts to these items include broken, failed, or impassable roadways; broken or failed utility lines (e.g. loss of power or gas to community); and railway failure from broken or impassable railways. In addition bridges could fail or become impassable causing risk to traffic.

Vulnerability to Future Assets/Infrastructure for Ground Failure

New buildings and infrastructure placed on undermined land or on highly soluble bedrock will be vulnerable to ground failure.

Analysis of Community Development Trends

Abandoned underground mine subsidence may affect several locations within the county; therefore buildings and infrastructure are vulnerable to subsidence. Continued development will occur in many of these areas. Currently, St. Clair County reviews new development for compliance with the local zoning ordinance. Newly planned construction should be reviewed with the historical mining maps to minimize potential subsidence structural damage.

4.4.9 Fire\Explosion

Hazard Definition for Fire\Explosion Hazard

There are three major categories of fires within the St. Clair County. These include structure fires, wildland fires, and other fires. A structure fire is any fire involving an assembly of materials for occupancy or use to serve a specific purpose. This includes buildings, open platforms, bridges, or roof assemblies over open storage or process areas. A wildland fire is any fire involving vegetative fuels that occurs in the wildland or urban-wildland interface areas. The other category captures all other fires not covered by wildland or structure fire. Examples of such fires included vehicle fires, trash or rubbish fires, and outside gas or vapor combustion.

Previous Occurrences of Fire\Explosion

Record of all fires in St. Clair County between January 1, 2007 and May 21, 2009 were obtained from the Illinois State Fire Marshal.

Structural Fires

In terms of average annual loss property, structural fires are by far one of the most significant hazards facing St. Clair County. Between January 2007 and May 2009 there were a 2,603 structure fires in the County. These fires were attributed with 52 injuries, 14 deaths, and over \$26.5 million in property damage. Table 4-41 presents the number of fires, causes, estimated losses and casualties attributed to these fires by jurisdiction.

Wildland Fires

Forested and grassland areas cover less than one third of St. Clair County's total land base. However, when conditions are right, forests may become vulnerable to wildfires. Between January 2007 and May 2009 1,040 brush and wildland fires occurred in St. Clair County. These fires were attributed with three injuries and over \$14,000 in property damage (Table 4-41). These fires range in size from less than 1 up to 39 acres. However, nearly all (97%) of these fires are less than 1 acre in size. These fires generally occur near roads, railroad, campgrounds, and the urban wildland interface.

Other Fires

Other Fires in St. Clair County include vehicle fires, dumpster fires, and the burning of rubbish (e.g., house hold trash, construction debris, tires, or old railroad ties). Between January 2007 and February 2009, 2,258 such fires occurred resulting in over \$4.7 million in property damage, 14 injuries, and 6 deaths (Table 4-41). Most of the property damage was to vehicles and their contents.

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Table 4-41 St. Clair County Fires

| Structure Fires | | | | | | | | | | |
|-------------------|-------------|-------------|-----------|---------------|---------------------|-------------|---------------------|---------------------|-----------|-----------|
| Jurisdiction | Cause | | | | | Total | Estimated Losses | | Inj. | Deaths |
| | Accidental | Intentional | Natural | Un-determined | Under Investigation | | Property | Total | | |
| Alorton | 82 | 0 | 0 | 0 | 0 | 82 | \$200,100 | \$269,850 | 0 | 0 |
| Belleville | 450 | 39 | 0 | 0 | 0 | 489 | \$4,903,690 | \$7,313,965 | 15 | 0 |
| Brooklyn | 28 | 0 | 0 | 0 | 0 | 28 | \$65,000 | \$73,000 | 0 | 0 |
| Cahokia | 217 | 10 | 2 | 0 | 0 | 229 | \$2,305,750 | \$2,984,925 | 4 | 5 |
| Caseyville | 85 | 0 | 0 | 0 | 0 | 85 | \$474,200 | \$675,200 | 0 | 0 |
| Centerville | 241 | 3 | 0 | 0 | 0 | 244 | \$2,384,002 | \$3,076,352 | 0 | 0 |
| Clarmin | 1 | 0 | 0 | 0 | 0 | 1 | \$0 | \$5,000 | 0 | 0 |
| Collinsville | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Darmstadt | 2 | 0 | 0 | 0 | 0 | 2 | \$0 | \$0 | 0 | 0 |
| Dupo | 34 | 0 | 0 | 0 | 0 | 34 | \$147,000 | \$190,300 | 2 | 0 |
| East Carondelet | 14 | 0 | 0 | 0 | 0 | 14 | \$0 | \$0 | 0 | 0 |
| East St. Louis | 504 | 71 | 13 | 0 | 1 | 589 | \$11,302,600 | \$12,410,570 | 20 | 5 |
| Fairmont City | 15 | 0 | 0 | 0 | 0 | 15 | \$76,000 | \$84,000 | 1 | 0 |
| Fairview Heights | 65 | 1 | 0 | 0 | 0 | 66 | \$616,400 | \$852,000 | 0 | 0 |
| Fayetteville | 6 | 1 | 0 | 0 | 0 | 7 | \$110,000 | \$160,000 | 0 | 0 |
| Freeburg | 46 | 0 | 0 | 0 | 0 | 46 | \$1,065,000 | \$1,235,400 | 1 | 1 |
| French Village | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Hecker | 2 | 0 | 0 | 0 | 0 | 2 | \$0 | \$0 | 0 | 0 |
| Hollywood Heights | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Lebanon | 12 | 0 | 0 | 0 | 0 | 12 | \$102,100 | \$140,100 | 0 | 0 |
| Lenzburg | 17 | 0 | 0 | 0 | 0 | 17 | \$50,500 | \$60,520 | 0 | 0 |
| Lovejoy | 1 | 0 | 0 | 0 | 0 | 1 | \$75,000 | \$85,000 | 0 | 0 |
| Marissa | 36 | 0 | 0 | 0 | 0 | 36 | \$10,000 | \$10,000 | 0 | 0 |
| Mascoutah | 20 | 0 | 0 | 0 | 0 | 20 | \$0 | \$0 | 0 | 0 |
| Midway | 1 | 0 | 0 | 0 | 0 | 1 | \$0 | \$0 | 0 | 0 |
| Millstadt | 28 | 0 | 0 | 0 | 0 | 28 | \$325,000 | \$379,500 | 0 | 0 |
| New Athens | 19 | 0 | 1 | 0 | 0 | 20 | \$100,000 | \$120,000 | 0 | 0 |
| O'Fallon | 76 | 5 | 0 | 0 | 0 | 81 | \$1,200 | \$1,700 | 0 | 0 |
| Prairie Du Pont | 1 | 0 | 0 | 0 | 0 | 1 | \$0 | \$0 | 0 | 0 |
| Sauget | 18 | 1 | 0 | 0 | 0 | 19 | \$0 | \$0 | 0 | 0 |
| Shiloh | 23 | 1 | 0 | 0 | 0 | 24 | \$0 | \$0 | 0 | 0 |
| Smithton | 46 | 0 | 0 | 0 | 0 | 46 | \$85,000 | \$118,050 | 2 | 0 |
| St. Libory | 5 | 0 | 0 | 0 | 0 | 5 | \$35,000 | \$50,000 | 0 | 0 |
| Stewardston | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Summerfield | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Swansea | 57 | 0 | 0 | 0 | 0 | 57 | \$171,000 | \$242,500 | 1 | 0 |
| Washington Park | 267 | 2 | 0 | 0 | 0 | 269 | \$1,887,500 | \$2,314,170 | 6 | 3 |
| St. Clair County | 0 | 0 | 0 | 33 | 0 | 33 | \$104,000 | \$0 | 0 | 0 |
| Total | 2419 | 134 | 16 | 33 | 1 | 2603 | \$26,596,042 | \$32,852,102 | 52 | 14 |

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| Wildland \ Brush Fires | | | | | | | | | | |
|------------------------|------------|-------------|-----------|---------------|---------------|-------------|------------------|-----------------|----------|----------|
| Jurisdiction | Cause | | | | | | Estimated Losses | | Inj. | Death |
| | Accidental | Intentional | Natural | Un-determined | Under Invest. | Total | Property | Total | | |
| Alorton | 4 | 0 | 0 | 0 | 0 | 4 | \$0 | \$0 | 0 | 0 |
| Belleville | 246 | 2 | 2 | 0 | 0 | 250 | \$0 | \$0 | 1 | 0 |
| Brooklyn | 1 | 0 | 0 | 0 | 0 | 1 | \$0 | \$0 | 0 | 0 |
| Cahokia | 36 | 0 | 0 | 0 | 0 | 36 | \$575 | \$1,000 | 0 | 0 |
| Caseyville | 56 | 0 | 1 | 0 | 0 | 57 | \$1,000 | \$1,000 | 0 | 0 |
| Centerville | 53 | 0 | 2 | 0 | 0 | 55 | \$0 | \$0 | 0 | 0 |
| Clarmin | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Collinsville | 1 | 0 | 0 | 0 | 0 | 1 | \$0 | \$0 | 0 | 0 |
| Darmstadt | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Dupo | 6 | 1 | 0 | 0 | 0 | 7 | \$0 | \$0 | 0 | 0 |
| East Carondelet | 7 | 0 | 0 | 0 | 0 | 7 | \$0 | \$0 | 0 | 0 |
| East St. Louis | 261 | 2 | 2 | 0 | 0 | 265 | \$10,150 | \$10,150 | 0 | 0 |
| Fairmont City | 11 | 0 | 0 | 0 | 0 | 11 | \$0 | \$0 | 0 | 0 |
| Fairview Heights | 77 | 0 | 2 | 0 | 0 | 79 | \$1,000 | \$1,000 | 1 | 0 |
| Fayetteville | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Freeburg | 25 | 0 | 0 | 0 | 0 | 25 | \$0 | \$0 | 0 | 0 |
| French Village | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Hecker | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Hollywood Heights | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Lebanon | 3 | 0 | 0 | 0 | 0 | 3 | \$0 | \$0 | 0 | 0 |
| Lenzburg | 4 | 0 | 0 | 0 | 0 | 4 | \$0 | \$0 | 0 | 0 |
| Lovejoy | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Marissa | 20 | 0 | 0 | 0 | 0 | 20 | \$0 | \$0 | 0 | 0 |
| Mascoutah | 1 | 0 | 0 | 0 | 0 | 1 | \$0 | \$0 | 0 | 0 |
| Midway | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Millstadt | 15 | 0 | 0 | 0 | 0 | 15 | \$0 | \$0 | 0 | 0 |
| New Athens | 24 | 0 | 0 | 0 | 0 | 24 | \$0 | \$0 | 0 | 0 |
| O'Fallon | 24 | 0 | 0 | 0 | 0 | 24 | \$0 | \$0 | 0 | 0 |
| Prairie Du Pont | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Sauget | 15 | 0 | 0 | 0 | 0 | 15 | \$0 | \$0 | 0 | 0 |
| Shiloh | 7 | 1 | 0 | 0 | 0 | 8 | \$0 | \$0 | 0 | 0 |
| Smithton | 23 | 0 | 0 | 0 | 0 | 23 | \$0 | \$0 | 0 | 0 |
| St. Libory | 2 | 0 | 0 | 0 | 0 | 2 | \$0 | \$0 | 0 | 0 |
| Stewardston | 0 | 0 | 1 | 0 | 0 | 1 | \$0 | \$0 | 0 | 0 |
| Summerfield | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Swansea | 29 | 1 | 1 | 0 | 1 | 32 | \$1,800 | \$1,800 | 1 | 0 |
| Washington Park | 43 | 0 | 0 | 0 | 1 | 44 | \$0 | \$0 | 0 | 0 |
| St. Clair County | 0 | 0 | 0 | 26 | 0 | 26 | \$0 | \$0 | 0 | 0 |
| Total | 994 | 7 | 11 | 26 | 2 | 1040 | \$14,525 | \$14,950 | 3 | 0 |

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| Other Fires | | | | | | | | | | |
|-------------------|-------------|-------------|----------|---------------|---------------|-------------|--------------------|--------------------|-----------|----------|
| Jurisdiction | Cause | | | | | | Estimated Losses | | Inj. | Deaths |
| | Accidental | Intentional | Natural | Un-determined | Under Invest. | Total | Property | Total | | |
| Alorton | 27 | 0 | 0 | 0 | 0 | 27 | \$41,500 | \$50,899 | 0 | 0 |
| Belleville | 309 | 22 | 4 | 0 | 4 | 339 | \$1,462,230 | \$1,933,960 | 3 | 0 |
| Brooklyn | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Cahokia | 123 | 5 | 1 | 0 | 0 | 129 | \$534,050 | \$638,600 | 4 | 0 |
| Caseyville | 113 | 1 | 1 | 0 | 0 | 115 | \$26,800 | \$29,300 | 0 | 0 |
| Centerville | 93 | 2 | 0 | 0 | 0 | 95 | \$164,036 | \$168,552 | 0 | 0 |
| Clarmin | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Collinsville | 2 | 0 | 0 | 0 | 0 | 2 | \$0 | \$0 | 0 | 0 |
| Darmstadt | 1 | 0 | 0 | 0 | 0 | 1 | \$1,800 | \$1,800 | 0 | 0 |
| Dupo | 19 | 0 | 0 | 0 | 0 | 19 | \$9,000 | \$10,000 | 0 | 0 |
| East Carondelet | 10 | 0 | 0 | 0 | 0 | 10 | \$0 | \$0 | 0 | 0 |
| East St. Louis | 904 | 17 | 0 | 0 | 0 | 921 | \$1,733,130 | \$1,807,850 | 2 | 2 |
| Fairmont City | 29 | 0 | 0 | 0 | 0 | 29 | \$77,500 | \$88,030 | 2 | 4 |
| Fairview Heights | 74 | 2 | 0 | 0 | 0 | 76 | \$47,355 | \$49,715 | 1 | 0 |
| Fayetteville | 2 | 3 | 0 | 0 | 0 | 5 | \$7,500 | \$7,900 | 0 | 0 |
| Freeburg | 41 | 0 | 0 | 0 | 0 | 41 | \$27,700 | \$38,000 | 0 | 0 |
| French Village | 1 | 0 | 0 | 0 | 0 | 1 | \$0 | \$0 | 0 | 0 |
| Hecker | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Hollywood Heights | 1 | 0 | 0 | 0 | 0 | 1 | \$0 | \$0 | 0 | 0 |
| Lebanon | 18 | 0 | 0 | 0 | 0 | 18 | \$2,600 | \$3,200 | 0 | 0 |
| Lenzburg | 3 | 0 | 1 | 0 | 0 | 4 | \$37,500 | \$39,500 | 0 | 0 |
| Lovejoy | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Marissa | 21 | 0 | 0 | 0 | 0 | 21 | \$10,000 | \$100,000 | 0 | 0 |
| Mascoutah | 8 | 0 | 0 | 0 | 0 | 8 | \$24,000 | \$25,000 | 0 | 0 |
| Midway | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Millstadt | 33 | 3 | 0 | 0 | 0 | 36 | \$1,500 | \$1,500 | 0 | 0 |
| New Athens | 34 | 0 | 0 | 0 | 0 | 34 | \$25,700 | \$27,200 | 0 | 0 |
| O'Fallon | 44 | 1 | 0 | 0 | 0 | 45 | \$2,000 | \$2,000 | 0 | 0 |
| Prairie Du Pont | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Sauget | 13 | 0 | 0 | 0 | 0 | 13 | \$0 | \$0 | 0 | 0 |
| Shiloh | 14 | 0 | 0 | 0 | 0 | 14 | \$1,500 | \$1,505 | 0 | 0 |
| Smithton | 15 | 0 | 0 | 0 | 0 | 15 | \$2,200 | \$2,200 | 2 | 0 |
| St. Libory | 4 | 0 | 0 | 0 | 0 | 4 | \$10,000 | \$10,000 | 0 | 0 |
| Stewardston | 0 | 0 | 0 | 0 | 0 | 0 | \$0 | \$0 | 0 | 0 |
| Summerfield | 1 | 0 | 0 | 0 | 0 | 1 | \$0 | \$0 | 0 | 0 |
| Swansea | 27 | 0 | 0 | 0 | 0 | 27 | \$300 | \$300 | 0 | 0 |
| Washington Park | 191 | 1 | 0 | 0 | 0 | 192 | \$440,915 | \$468,420 | 0 | 0 |
| St. Clair County | 0 | 0 | 0 | 15 | 0 | 15 | \$63,000 | \$0 | 0 | 0 |
| Total | 2175 | 57 | 7 | 15 | 4 | 2258 | \$4,753,816 | \$5,505,431 | 14 | 6 |

Geographic Location for Fire Hazard

The structure and other fire hazards are countywide where wildland fires are limited to forested and grassland areas within the County.

Hazard Extent for Fire Hazard

The extent of the fire hazard varies both in terms of the extent of the fire and the type of material being ignited.

Calculated Priority Risk Index for Fire Hazard

Based on historical data and input from the St. Clair County Emergency Management large damaging structure fires, wildland fires and explosions are unlikely. The magnitude of the damage from such an event at the county level will likely be negligible. According to the RPI, large fires and explosion are ranked as the number eight hazard for the County.

| | | | | |
|-------------|---|---------------------|---|-----|
| Probability | x | Magnitude /Severity | = | RPI |
| 1 | x | 1 | = | 1 |

Vulnerability Analysis for Fire\Explosion Hazard

Fires and explosions are local phenomena. A large fire or explosion can possibly occur in St. Clair County and the damage maybe locally severe. However, the extent of damage to county as a whole is likely to be negligible. St. Clair County has a well-established network of fire departments with equipment capacities that enable an effective response.

Analysis of Community Development Trends

Vulnerable of St. Clair County to fires and explosions is countywide. Mitigation of the structure fire and explosions is depended on property and business owners to properly maintain their structures and machinery / equipment contained within. New development may occur within the wildland urban interface potentially increasing the risk of property damage due to wildland fire. Planned construction in these areas should be reviewed so proper protective measures are taken to minimize the wildfire risk to these properties.

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Section 5 - Mitigation Strategy

The goal of mitigation is to reduce a hazard's future impacts including property damage, disruption to local and regional economies, and the amount of public and private funds spent to assist with recovery. The goal of mitigation is to build disaster-resistant communities. Mitigation actions and projects should be based on a well-constructed risk assessment; St. Clair County's is provided in Section 4 of this plan. Mitigation should be an ongoing process that adapts over time to accommodate the community's needs.

5.1 Community Capability Assessment

The capability assessment identifies current activities used to mitigate hazards. The capability assessment identifies the policies, regulations, procedures, programs, and projects that contribute to the lessening of disaster damages. The assessment also provides an evaluation of these capabilities to determine whether the activities can be improved in order to more effectively reduce the impact of future hazards. The following sections identify existing plans and mitigation capabilities within all of the communities listed in Section 2 of this plan.

5.1.1 National Flood Insurance Program (NFIP)

St. Clair County and 27 out of its 30 incorporated communities are members of the NFIP. The following communities choose not to participate in the program: Alorton, Lenzburg, and Marissa. HAZUS-MH estimates that approximately 2,510 structures were located in the St. Clair County Special Flood Hazard Area (excluding the portion of the Mississippi River Floodplain protected by Federal Levees); as of June 18, 2007, the Federal Emergency Services Disaster Agency NFIP Insurance Report for Illinois stated that 2,029 households paid flood insurance, insuring \$243,977,200 in property value. The total premiums collect amounted to \$1,108,372 which on average was \$38,220 annually. From 1978 to 2007, 941 claims were filed; totaling \$2,668,414. The average claim was \$2,836.

The county and incorporated areas do not participate in the National Flood Insurance Program's (NFIP) Community Rating System (CRS). The CRS is a voluntary incentive program that recognizes and encourages community floodplain management activities that exceed the minimum NFIP requirements. As a result, flood insurance premium rates are discounted to reflect the reduced flood risk resulting from the community meeting the three goals of the CRS: 1) reduce flood losses; 2) facilitate accurate insurance rating; and 3) promote the awareness of flood insurance. Table 5-1 identifies each community and the date each participant joined the NFIP.

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Table 5-1: Additional Information on Communities Participating in the NFIP

| Community | Participation Date | DFIRM or FRIM Date | CRS Date | CRS Rating | Flood Plain Zoning Ordinance Adopted Last |
|------------------|--------------------|--------------------|----------|------------|---|
| St. Clair County | 5/21/1976 | 9/2/1981 | N/A | N/A | 11/5/2003 |
| Alorton | N/A | 6/4/1980 | N/A | N/A | N/A |
| Belleville | 10/15/1982 | 11/5/2003 | N/A | N/A | 11/5/2003 |
| Brooklyn | 10/14/2009 | 11/5/2003 | N/A | N/A | 10/14/2009 |
| Cahokia | 10/17/1978 | 10/17/1978 | N/A | N/A | 11/5/2003 |
| Caseyville | 3/16/1981 | 11/5/2003 | N/A | N/A | 11/5/2003 |
| Dupo | 2/4/1981 | 2/4/1981 | N/A | N/A | 11/17/2003 |
| East Carondelet | 3/2/1981 | 11/5/2003 | N/A | N/A | 11/5/2003 |
| East St. Louis | 11/1/1979 | 11/5/2003 | N/A | N/A | 11/5/2003 |
| Fairmont City | 3/28/1980 | 11/5/2003 | N/A | N/A | 11/5/2003 |
| Fairview Heights | 6/3/1978 | 11/5/2003 | N/A | N/A | 11/19/2003 |
| Fayetteville | 6/15/1981 | 11/5/2003 | N/A | N/A | 5/20/2004 |
| Freeburg | 1/18/1980 | 11/5/2003 | N/A | N/A | 11/5/2004 |
| Lebanon | 7/2/1981 | 11/5/2003 | N/A | N/A | 11/5/2003 |
| Lenzburg | N/A | 11/5/2003 | N/A | N/A | N/A |
| Marissa | N/A | 11/5/2003 | N/A | N/A | N/A |
| Mascoutah | 6/15/1981 | 11/5/2003 | N/A | N/A | 11/5/2003 |
| Millstadt | 1/31/1983 | NSFHA | N/A | N/A | 1/31/1983 |
| New Athens | 3/23/1984 | 11/5/2003 | N/A | N/A | 1/19/2004 |
| New Baden | 5/24/1974 | 8/2/2007 | N/A | N/A | 8/2/2007 |
| O'Fallon | 10/15/1982 | 11/5/2003 | N/A | N/A | 11/5/2003 |
| Sauget | 8/1/1980 | 11/5/2003 | N/A | N/A | 11/5/2003 |
| Shiloh | 11/5/2003 | 11/5/2003 | N/A | N/A | 11/5/2003 |
| Smithton | 6/25/1976 | 11/5/2003 | N/A | N/A | 11/5/2003 |
| St. Libory | 2/25/1983 | 11/5/2003 | N/A | N/A | 11/5/2003 |
| Summerfield | 8/10/1979 | 11/5/2003 | N/A | N/A | 4/14/2003 |
| Swansea | 12/1/1981 | 11/5/2003 | N/A | N/A | 4/14/2004 |
| Washington Park | 4/19/2010 | 11/5/2003 | N/A | N/A | 4/19/2010 |

The incorporated communities of Alorton, Lenzburg, and Marissa have identified flood zones but have previously chosen not to participate in the program due lack of interest or perceived need. The County will continue to educate these jurisdictions on the benefits of the program.

5.2 Mitigation goals

The St. Clair County Emergency Management Agency, Southern Illinois University-Carbondale Geology Department, the Polis Center, and the Southwestern Illinois Metropolitan and Regional Planning Commission assisted St. Clair County Multi-Hazard Mitigation Planning Team in the formulation of mitigation strategies and projects for St. Clair County. The goals and objectives set forth were derived through participation and discussion of the views and concerns of the St. Clair County Multi-Hazard Mitigation Team members and related public input. The MHMP will focus on these goals, with a great deal of public input, to ensure that the priorities of the communities are represented.

The goals represent long-term, broad visions of the overall vision the county would like to achieve for mitigation. The objectives are strategies and steps which will assist the communities to attain the listed goals. Table 5-5 lists mitigation actions, which are defined projects that will help to complete the defined goals and objectives.

Goal 1: Lessen the impacts of hazards to new and existing infrastructure

(a) Objective: Retrofit critical facilities and structures with structural design practices and equipment that will withstand natural disasters and offer weather-proofing.

(b) Objective: Equip public facilities and communities to guard against damage caused by secondary effects of hazards.

(c) Objective: Minimize the amount of infrastructure exposed to hazards.

(d) Objective: Evaluate and strengthen the communication and transportation abilities of emergency services throughout the county.

(e) Objective: Improve emergency sheltering in St. Clair County.

Goal 2: Create new or revise existing plans/maps for St. Clair County

(a) Objective: Support compliance with the NFIP for each jurisdiction in St. Clair County.

(b) Objective: Review and update existing, or create new, community plans and ordinances to support hazard mitigation.

(c) Objective: Conduct new studies/research to profile hazards and follow up with mitigation strategies.

Goal 3: Develop long-term strategies to educate St. Clair County residents on the hazards affecting their county

(a) Objective: Raise public awareness on hazard mitigation.

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(b) Objective: Improve education and training of emergency personnel and public officials.

5.3 Mitigation Actions/Projects

Upon completion of the risk assessment and development of the goals and objectives, the Planning Committee was provided with a list of the six mitigation measure categories from the *FEMA State and Local Mitigation Planning How to Guides*. The measures are listed as follows.

- **Prevention:** Government, administrative, or regulatory actions or processes that influence the way land and buildings are developed and built. These actions also include public activities to reduce hazard losses. Examples include planning and zoning, building codes, capital improvement programs, open space preservation, and stormwater management regulations.
- **Property Protection:** Actions that involve the modification of existing buildings or structures to protect them from a hazard or removal from the hazard area. Examples include acquisition, elevation, structural retrofits, storm shutters, and shatter-resistant glass.
- **Public Education and Awareness:** Actions to inform and educate citizens, elected officials, and property owners about the hazards and potential ways to mitigate them. Such actions include outreach projects, real estate disclosure, hazard information centers, and school-age and adult education programs.
- **Natural Resource Protection:** Actions that, in addition to minimizing hazard losses, preserve or restore the functions of natural systems. These actions include sediment and erosion control, stream corridor restoration, watershed management, forest and vegetation management, and wetland restoration and preservation.
- **Emergency Services:** Actions that protect people and property during and immediately after a disaster or hazard event. Services include warning systems, emergency response services, and protection of critical facilities.
- **Structural Projects:** Actions that involve the construction of structures to reduce the impact of a hazard. Such structures include dams, levees, floodwalls, seawalls, retaining walls, and safe rooms.

After Meeting #3, held September 17, 2009 MHMP members were presented with the task of individually listing potential mitigation activities using the FEMA evaluation criteria. The MHMP members brought their mitigation ideas to Meeting #4, which was held December 3, 2009. The evaluation criteria (STAPLE+E) involved the following categories and questions.

Social:

- Will the proposed action adversely affect one segment of the population?

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- Will the action disrupt established neighborhoods, break up voting districts, or cause the relocation of lower income people?

Technical:

- How effective is the action in avoiding or reducing future losses?
- Will it create more problems than it solves?
- Does it solve the problem or only a symptom?
- Does the mitigation strategy address continued compliance with the NFIP?

Administrative:

- Does the jurisdiction have the capability (staff, technical experts, and/or funding) to implement the action, or can it be readily obtained?
- Can the community provide the necessary maintenance?
- Can it be accomplished in a timely manner?

Political:

- Is there political support to implement and maintain this action?
- Is there a local champion willing to help see the action to completion?
- Is there enough public support to ensure the success of the action?
- How can the mitigation objectives be accomplished at the lowest cost to the public?

Legal:

- Does the community have the authority to implement the proposed action?
- Are the proper laws, ordinances, and resolution in place to implement the action?
- Are there any potential legal consequences?
- Is there any potential community liability?
- Is the action likely to be challenged by those who may be negatively affected?
- Does the mitigation strategy address continued compliance with the NFIP?

Economic:

- Are there currently sources of funds that can be used to implement the action?
- What benefits will the action provide?
- Does the cost seem reasonable for the size of the problem and likely benefits?
- What burden will be placed on the tax base or local economy to implement this action?
- Does the action contribute to other community economic goals such as capital improvements or economic development?
- What proposed actions should be considered but be “tabled” for implementation until outside sources of funding are available?

Environmental:

- How will this action affect the environment (land, water, endangered species)?
- Will this action comply with local, state, and federal environmental laws and regulations?
- Is the action consistent with community environmental goals?

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The development of the MHMP is the first step in a multi-step process to implement projects and policies to mitigate hazards in the county and its communities.

5.3.1 Completed or Current Mitigation Actions/Projects

Since this is the first mitigation plan developed for St. Clair County, there are no deleted or deferred mitigation items. The following tables will refer to completed, ongoing, or future mitigation actions. Table 5-4 presents the completed and ongoing mitigation actions and projects in the county.

Table 5-4: Completed or Current Mitigation Actions

| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Comments |
|--|--|--|---|---|
| Purchase warning radios for schools | Goal: Lessen the impacts of hazards to new and existing infrastructure Objective: Evaluate and strengthen the communication and transportation abilities of emergency services throughout the county. | Tornado, Flood, Thunderstorm, Winter Storm | St. Clair County, Belleville, Cahokia, Caseyville, Collinsville, Dupo, East St. Louis, Fairmount City, Fairview Heights, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, O'Fallon, Smithton, Swansea | All schools within the county have warning radios |
| Implement Communication Notification (Reverse 911) | Goal: Lessen the impacts of hazards to new and existing infrastructure Objective: Evaluate and strengthen the communication and transportation abilities of emergency services throughout the county. | Tornado, Flood, Thunderstorm, Winter Storm, Hazmat, Fire | Fairview Heights (Code Red) Belleville (Hyper Reach) | This project is complete. |
| Establish shelters within each community | Goal: Lessen the impacts of hazards to new and existing infrastructure Objective: Improve emergency sheltering in St. Clair County. | Tornado, Flood, Thunderstorm, Drought, Winter Storm, Hazmat, Fire | St. Clair County, Belleville, Brooklyn, Cahokia, Caseyville, Centerville, East St. Louis, Fairmount City, Fairview Heights, Freeburg, Lebanon, Lenzburg, Mascoutah, Millstadt, New Athens, O'Fallon, Shiloh, Swansea, Washington Park | Most communities within the county have established shelters. |
| Require all mobile homes to have tie-downs | Goal: Create new or revise existing plans/maps for St. Clair County Objective: Review and update existing, or create new, community plans and ordinances to support hazard mitigation. | Tornado, Thunderstorm | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Most communities with mobile home parks have ordinances requiring tie-downs |

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| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Comments |
|---|---|--|--|--|
| Develop emergency transportation routes | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Evaluate and strengthen the communication and transportation abilities of emergency services throughout the county.</p> | Tornado, Flood, Earthquake, Thunderstorm, Winter Storm, Hazmat, Fire | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Duplo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | All communities have established emergency transportation routes |
| Implement Illinois Public Works Mutual Aid Assistance (ILWARN) | <p>Goal: Create new or revise existing plans/maps for St. Clair County</p> <p>Objective: Review and update existing, or create new, community plans and ordinances to support hazard mitigation.</p> | Tornado, Flood, Thunderstorm, Drought, Winter Storm, Hazmat, Fire | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Duplo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | This strategy is complete. |
| Identify the special needs population within the county | <p>Goal: Develop long-term strategies to educate St. Clair County residents on the hazards affecting their county</p> <p>Objective: Improve education and training of emergency personnel and public officials</p> | Tornado, Flood, Thunderstorm, Drought, Winter Storm, Hazmat, Fire | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Duplo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | The county has mapped special needs facilities and is currently developing a special needs map layer of individuals with physical and web-based sign up. |
| Develop a GIS database for emergency response. | <p>Goal: Develop long-term strategies to educate St. Clair County residents on the hazards affecting their county</p> <p>Objective: Improve education and training of emergency personnel and public officials</p> | Tornado, Flood, Thunderstorm, Drought, Winter Storm, Hazmat, Fire | St. Clair County | The County EMA is currently working on this project. |
| Complete a commodity flow study for major transportation routes | <p>Goal: Create new or revise existing plans/maps for St. Clair County</p> <p>Objective: Review and update existing, or create new, community plans and ordinances to support hazard mitigation.</p> | Hazmat | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Duplo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | This project is complete. |

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| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Comments |
|---|---|-----------------------|---|--|
| Establish buffer zone grants countywide | <p>Goal: Create new or revise existing plans/maps for St. Clair County</p> <p>Objective: Review and update existing, or create new, community plans and ordinances to support hazard mitigation.</p> | Hazmat | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | This project is complete. |
| Establish a community notification for emergencies | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Evaluate and strengthen the communication and transportation abilities of emergency services throughout the county.</p> | Hazmat | Smithton | This project is complete. |
| Identify and implement buy-outs | <p>Goal: Create new or revise existing plans/maps for St. Clair County</p> <p>Objective: Support compliance with the NFIP for each jurisdiction in St. Clair County.</p> | Flood | Belleville, East St. Louis | This project is complete. |
| Improve drainage | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Equip public facilities and communities to guard against damage caused by secondary effects of hazards.</p> | Flood | East St. Louis | This project is ongoing. |
| Develop an evacuation plan for levee failure (Mississippi River Floodplain) | <p>Goal: Create new or revise existing plans/maps for St. Clair County</p> <p>Objective: Review and update existing, or create new, community plans and ordinances to support hazard mitigation.</p> | Flood | East St. Louis | The metro area of East St. Louis is working on a plan; additional funding may be sought from state and national resources. |
| Develop a siren warning plan and map existing siren locations | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Evaluate and strengthen the communication and transportation abilities of emergency services throughout the county.</p> | Tornado, Thunderstorm | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | This project is ongoing. |

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Table 5-6: Mitigation Strategies

| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|--|---|--|---|----------|--|
| Upgrade existing and install new warning sirens | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Evaluate and strengthen the communication and transportation abilities of emergency services throughout the county.</p> | Tornado, Flood, Earthquake, Thunderstorm, Winter Storm | East St. Louis, Centerville | High | The County EMA Coordinator will oversee the implementation of the project. Local resources will be used to evaluate, install, and maintain the warning systems. Additional funding will be sought from other funding sources, e.g. PDM program, to expand the warning system coverage area. Implementation, if funding is available, is forecasted to begin within one year. |
| Harden infrastructure, especially firehouses and other critical facilities | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Retrofit critical facilities and structures with structural design practices and equipment that will withstand natural disasters and offer weather-proofing.</p> | Tornado, Thunderstorm, Earthquake | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | High | The EMA Coordinator will oversee this project. Funding has not been secured as of 2010, but the PDM program and community development grants are a possibility. If funding is available, implementation will begin within one year. |
| Develop an evacuation plan for communities within the Mississippi River Floodplain incase of levee overtopping or failure. | <p>Goal: Educate floodplain residence of the potential flood hazard and provide a plan in which to effectively evacuate at risk citizens.</p> <p>Objective: Improve understanding of flood risk for floodplain residence and develop a plan in which local emergency official can implement incase of imminent levee failure.</p> | Flood, Earthquake | Alorton, Brooklyn, Cahokia, Caseyville, Centerville, Collinsville, East, Carondelet, East St. Louis, Dupo, Sauget, Washington Park | High | The EMA Coordinator will work with local planning commission, local emergency management officials, IEMA, and FEMA to develop the evacuation plan and educate the public about the potential hazard and plan. If funding is available, implementation will begin within one year. |

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| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|--|---|--------------------------|---|-----------------|---|
| Improve emergency response training to focus on pipe line disasters | <p>Goal: Develop long-term strategies to educate St. Clair County residents on the hazards affecting their county</p> <p>Objective: Improve education and training of emergency personnel and public officials</p> | Earthquake, Hazmat | St. Clair County | High | The EMA Coordinator will work with local first responders to research training options. The county will request funding for training and equipment from IEMA. If funding is available, implementation will begin within one year. |
| Repair and/or improve levees and retention areas throughout the county | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Retrofit critical facilities with structural design practices and equipment that will withstand natural disasters and offer weather-proofing.</p> | Flood | St. Clair County | High | The levee and drainage district engineer(s) will work with the U.S. Corp of Engineers to implement this strategy. Funding will be sought from local, state, and federal resources. If funding is available, implementation will begin within one year. |
| Establish a public outreach program to inform county residents of earthquake threats and possible consequences; perform non-structural earthquake mitigation such as bolting water heaters and bookshelves | <p>Goal: Develop long-term strategies to educate St. Clair County residents on the hazards affecting their county</p> <p>Objective: Raise public awareness on hazard mitigation.</p> | Earthquake | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Medium | The EMA Coordinator will oversee this project. Local resources will be used to develop educational literature and present to each jurisdiction at public events or in schools. If resources are available, the project will be implemented within three years. |
| Purchase additional snow removal and tree trimming equipment | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Equip public facilities and communities to guard against damage caused by secondary effects of hazards.</p> | Winter Storm | St. Clair County | Medium | The EMA Coordinator will work with the County Engineer and local municipality superintendents oversee this project. Funding has not been secured as of 2010, but the PDM program and community development grants are a possibility. If funding is available, implementation will begin within three years. |

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| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|--|---|--------------------------------------|---|-----------------|---|
| Bury critical utility lines to prevent power outages or loss of telecommunications to essential or critical facilities during a severe winter storm or other type of severe weather event. | <p>Goal: Lessen the impacts of hazards to existing infrastructure</p> <p>Objective: Reduce or eliminate power or communication interruptions to essential and critical facilities.</p> | Winter Storm, Tornado, Thunderstorm, | St. Clair County | Low | The County EMA Coordinator will work with critical facility managers and local power companies to identify utility lines to be buried. Funding has not been secured as of 2010, but the PDM program and community development grants are a possibility. If funding is available, implementation will begin within five years. |
| Complete a study of dangerous transportation segments | <p>Goal: Create new or revise existing plans/maps for St. Clair County</p> <p>Objective: Conduct new studies/research to profile hazards and follow up with mitigation strategies.</p> | Hazmat | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Medium | Community planners and local government leaders will coordinate this study. Funding will be requested from community grants or IEMA. Implementation will begin within three years. |
| Establish a method of mass community notification | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Evaluate and strengthen the communication and transportation abilities of emergency services throughout the county.</p> | Hazmat | Belleville | Medium | The County EMA Coordinator will oversee the implementation of the project. Funding will be sought from other funding sources, e.g. PDM program, to determine the warning system coverage area. Implementation, if funding is available, is forecasted to begin within three years. |
| Conduct stream maintenance in Silver Creek | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Evaluate and strengthen the communication and transportation abilities of emergency services throughout the county.</p> | Flood | St. Clair County and Mascoutah | Medium | The County Engineer will work with the representative from Mascoutah and U.S. Corp of Engineers to implement this strategy. IEMA and IDNR are potential funding sources. If funding is available, implementation will begin within three years. |

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| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|---|--|---|---|-----------------|--|
| Increase capacity for the culvert beneath IL 159 | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Minimize the amount of infrastructure exposed to hazards.</p> | Flood | Smithton | Medium | The County Highway Engineer, representatives from Smithton, and IDOT will oversee the implementation of this project. Funding has not been secured as of 2010, but IDOT is a possible funding source. Implementation, if funding is available, will begin within three years. |
| Improve storm drainage from the eastern portion of the county to west of the Mississippi River Bluffs | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Minimize the amount of infrastructure exposed to hazards.</p> | Flood | St. Clair County | Medium | The levee and drainage district engineer(s) will work with the U.S. Corp of Engineers to assess the condition of the county's waterways and drainage and develop a plan. Funding has not been secured as of 2010, but county, state, and federal funding will be sought. Implementation will begin within three years. |
| Complete a community survey to determine existing notifications and improve public education and outreach | <p>Goal: Develop long-term strategies to educate St. Clair County residents on the hazards affecting their county</p> <p>Objective: Improve education and training of emergency personnel and public officials</p> | Tornado, Flood, Earthquake, Thunderstorm, Drought, Winter Storm, Hazmat, Fire | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Low | The County EMA Coordinator will oversee the implementation of this project. Local resources will be used to develop, distribute, and evaluate the surveys. Surveys will be used in future planning efforts. If resources are available, implementation will begin within five years. |
| Improve public education on Premise Alert Program (PAP) | <p>Goal: Develop long-term strategies to educate St. Clair County residents on the hazards affecting their county</p> <p>Objective: Raise public awareness on hazard mitigation.</p> | Winter Storm | St. Clair County | Low | The County EMA Director will oversee this project. Local resources will be used to develop educational literature and present to each jurisdiction at public events or in schools. If resources are available, the project will be implemented within five years. |

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| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|--|---|-----------------------|---|----------|---|
| Install inertial valves in critical facilities | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Retrofit critical facilities with structural design practices and equipment that will withstand natural disasters and offer weather-proofing.</p> | Earthquake | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Low | The County EMA Director will oversee implementation of this project. Funding has not been secured as of 2010, but the PDM program and community grants are an option. If funding is available, implementation will begin within five years. |
| Establish cooling and warming centers and develop long-term sheltering | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Improve emergency sheltering in St. Clair County.</p> | Drought, Winter Storm | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Low | The County EMA Director will oversee the implementation of this project. Local resources will be used to identify the areas for shelters. Funding has not been secured as of 2010, but the pre-disaster mitigation program and community development grants are a possible funding source. Implementation, if funding is available, will begin within five years. |
| Complete a flood study | <p>Goal: Create new or revise existing plans/maps for Belleville.</p> <p>Objective: Conduct new studies/research to profile hazards and follow up with mitigation strategies.</p> | Flood | Belleville | Low | The Floodplain Manager and/or City Engineer for Belleville will work with IDNR for the implementation of this project. Funding will be sought from State and National resources. If funding is available, implementation will begin within five years. |
| Establish an ongoing community plan for stream "management" plan. | <p>Goal: Create new or revise existing plans/maps for St. Clair County</p> <p>Objective: Review and update existing, or create new, community plans and ordinances to support hazard mitigation.</p> | Flood | St. Clair County | Low | The levee and drainage district engineer(s), floodplain managers and local planning commission will work with the U.S. Corp of Engineers to develop a stream "management" plan. Local resources will be used to develop a plan. If resources are available, implementation will begin within five years. |

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| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|--|--|---|---|----------|--|
| Develop a plan for storage and care of pets in the event of a disaster | <p>Goal: Create new or revise existing plans/maps for St. Clair County</p> <p>Objective: Conduct new studies/research to profile hazards and follow up with mitigation strategies.</p> | Tornado, Flood, Earthquake, Thunderstorm, Drought, Winter Storm, Hazmat, Fire | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Low | The EMA Coordinator will oversee implementation of this strategy. Local resources will be used to evaluate sheltering capacities and care resources. The county will develop an appropriate plan. Additional funding may be sought from State resources. If funding is available, implementation will begin within five years. |
| Launch a public outreach program to educate communities and residents on the benefits of belonging to the NFIP | <p>Goal: Create new or revise existing plans for Massac County</p> <p>Objective: Support compliance with the NFIP for each jurisdiction in Massac County.</p> | Flood | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | High | The county floodplain manager will oversee the implementation of the project. Local resources will be used to gather NFIP information and disseminate at public events, e.g. county fairs. Implementation, if resources are available, is forecasted to begin within one year. |

5.4 Implementation Strategy and Analysis of Mitigation Projects

Implementation of the mitigation plan is critical to the overall success of the mitigation planning process. The first step is to decide based upon many factors, which action will be undertaken initially. In order to pursue the top priority first, an analysis and prioritization of the actions is important. Some actions may occur before the top priority due to financial, engineering, environmental, permission, and/or site control issues. Public awareness and input of these mitigation actions can increase knowledge to capitalize on funding opportunities and monitoring the progress of an action.

In Meeting #4, the planning team prioritized mitigation actions based on a number of factors. A rating of High, Medium, or Low was assessed for each mitigation item and is listed next to each item in Table 5-6. The factors were the STAPLE+E (Social, Technical, Administrative, Political, Legal, Economic, and Environmental) criteria listed in Table 5-5.

Table 5-5: STAPLE+E planning factors

| | |
|---------------------------|---|
| S – Social | Mitigation actions are acceptable to the community if they do not adversely affect a particular segment of the population, do not cause relocation of lower income people, and if they are compatible with the community's social and cultural values. |
| T – Technical | Mitigation actions are technically most effective if they provide a long-term reduction of losses and have minimal secondary adverse impacts. |
| A – Administrative | Mitigation actions are easier to implement if the jurisdiction has the necessary staffing and funding. |
| P – Political | Mitigation actions can truly be successful if all stakeholders have been offered an opportunity to participate in the planning process and if there is public support for the action. |
| L – Legal | It is critical that the jurisdiction or implementing agency have the legal authority to implement and enforce a mitigation action. |
| E – Economic | Budget constraints can significantly deter the implementation of mitigation actions. Hence, it is important to evaluate whether an action is cost-effective, as determined by a cost benefit review, and possible to fund. |
| E – Environmental | Sustainable mitigation actions that do not have an adverse effect on the environment, comply with federal, state, and local environmental regulations, and are consistent with the community's environmental goals, have mitigation benefits while being environmentally sound. |

For each mitigation action related to infrastructure, new and existing infrastructure was considered. Additionally, the mitigation strategies address continued compliance with the NFIP. While an official cost benefit review was not conducted for any of the mitigation actions, the estimated costs were discussed. The overall benefits were considered when prioritizing mitigation items from High to Low. An official cost benefit review will be conducted prior to the implementation of any mitigation actions. Table 5-6 presents mitigation projects developed by the planning team.

St. Clair County Multi-Hazard Mitigation Plan

Table 5-6: Mitigation Strategies

| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|--|---|--|---|----------|--|
| Upgrade existing and install new warning sirens | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Evaluate and strengthen the communication and transportation abilities of emergency services throughout the county.</p> | Tornado, Flood, Earthquake, Thunderstorm, Winter Storm | East St. Louis, Centerville | High | The County EMA Coordinator will oversee the implementation of the project. Local resources will be used to evaluate, install, and maintain the warning systems. Additional funding will be sought from other funding sources, e.g. PDM program, to expand the warning system coverage area. Implementation, if funding is available, is forecasted to begin within one year. |
| Harden infrastructure, especially firehouses and other critical facilities | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Retrofit critical facilities and structures with structural design practices and equipment that will withstand natural disasters and offer weather-proofing.</p> | Tornado, Thunderstorm, Earthquake | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | High | The EMA Coordinator will oversee this project. Funding has not been secured as of 2010, but the PDM program and community development grants are a possibility. If funding is available, implementation will begin within one year. |
| Develop an evacuation plan for communities within the Mississippi River Floodplain incase of levee overtopping or failure. | <p>Goal: Educate floodplain residence of the potential flood hazard and provide a plan in which to effectively evacuate at risk citizens.</p> <p>Objective: Improve understanding of flood risk for floodplain residence and develop a plan in which local emergency official can implement incase of imminent levee failure.</p> | Flood, Earthquake | Alorton, Brooklyn, Cahokia, Caseyville, Centerville, Collinsville, East, Carondelet, East St. Louis, Dupo, Sauget, Washington Park | High | The EMA Coordinator will work with local planning commission, local emergency management officials, IEMA, and FEMA to develop the evacuation plan and educate the public about the potential hazard and plan. If funding is available, implementation will begin within one year. |

St. Clair County Multi-Hazard Mitigation Plan

| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|--|---|--------------------------|---|-----------------|---|
| Improve emergency response training to focus on pipe line disasters | <p>Goal: Develop long-term strategies to educate St. Clair County residents on the hazards affecting their county</p> <p>Objective: Improve education and training of emergency personnel and public officials</p> | Earthquake, Hazmat | St. Clair County | High | The EMA Coordinator will work with local first responders to research training options. The county will request funding for training and equipment from IEMA. If funding is available, implementation will begin within one year. |
| Repair and/or improve levees and retention areas throughout the county | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Retrofit critical facilities with structural design practices and equipment that will withstand natural disasters and offer weather-proofing.</p> | Flood | St. Clair County | High | The levee and drainage district engineer(s) will work with the U.S. Corp of Engineers to implement this strategy. Funding will be sought from local, state, and federal resources. If funding is available, implementation will begin within one year. |
| Establish a public outreach program to inform county residents of earthquake threats and possible consequences; perform non-structural earthquake mitigation such as bolting water heaters and bookshelves | <p>Goal: Develop long-term strategies to educate St. Clair County residents on the hazards affecting their county</p> <p>Objective: Raise public awareness on hazard mitigation.</p> | Earthquake | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Medium | The EMA Coordinator will oversee this project. Local resources will be used to develop educational literature and present to each jurisdiction at public events or in schools. If resources are available, the project will be implemented within three years. |
| Purchase additional snow removal and tree trimming equipment | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Equip public facilities and communities to guard against damage caused by secondary effects of hazards.</p> | Winter Storm | St. Clair County | Medium | The EMA Coordinator will work with the County Engineer and local municipality Superintendents oversee this project. Funding has not been secured as of 2010, but the PDM program and community development grants are a possibility. If funding is available, implementation will begin within three years. |

St. Clair County Multi-Hazard Mitigation Plan

| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|---|---|--------------------------------------|---|-----------------|---|
| Bury critical utility lines to prevent power outages or loss of telecommunications to essential or critical facilities during an severe winter storm or other type of severe weather event. | <p>Goal: Lessen the impacts of hazards to existing infrastructure</p> <p>Objective: Reduce or eliminate power or communication interruptions to essential and critical facilities.</p> | Winter storm, Tornado, Thunderstorm, | St. Clair County | Low | The County EMA Coordinator will work with critical facility managers and local power companies to identify utility lines to be buried. Funding has not been secured as of 2010, but the PDM program and community development grants are a possibility. If funding is available, implementation will begin within five years. |
| Complete a study of dangerous transportation segments | <p>Goal: Create new or revise existing plans/maps for St. Clair County</p> <p>Objective: Conduct new studies/research to profile hazards and follow up with mitigation strategies.</p> | Hazmat | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Medium | Community planners and local government leaders will coordinate this study. Funding will be requested from community grants or IEMA. Implementation will begin within three years. |
| Establish a method of mass community notification | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Evaluate and strengthen the communication and transportation abilities of emergency services throughout the county.</p> | Hazmat | Belleville | Medium | The County EMA Coordinator will oversee the implementation of the project. Funding will be sought from other funding sources, e.g. PDM program, to determine the warning system coverage area. Implementation, if funding is available, is forecasted to begin within three years. |
| Conduct stream maintenance in Silver Creek | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Evaluate and strengthen the communication and transportation abilities of emergency services throughout the county.</p> | Flood | St. Clair County and Mascoutah | Medium | The County Engineer will work with the representative from Mascoutah and U.S. Corp of Engineers to implement this strategy. IEMA and IDNR are potential funding sources. If funding is available, implementation will begin within three years. |

St. Clair County Multi-Hazard Mitigation Plan

| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|---|--|---|---|-----------------|--|
| Increase capacity for the culvert beneath IL 159 | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Minimize the amount of infrastructure exposed to hazards.</p> | Flood | Smithton | Medium | The County Highway Engineer, representatives from Smithton, and IDOT will oversee the implementation of this project. Funding has not been secured as of 2010, but IDOT is a possible funding source. Implementation, if funding is available, will begin within three years. |
| Improve storm drainage from the eastern portion of the county to west of the Mississippi River Bluffs | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Minimize the amount of infrastructure exposed to hazards.</p> | Flood | St. Clair County | Medium | The levee and drainage district engineer(s) will work with the U.S. Corp of Engineers to assess the condition of the county's waterways and drainage and develop a plan. Funding has not been secured as of 2010, but county, state, and federal funding will be sought. Implementation will begin within three years. |
| Complete a community survey to determine existing notifications and improve public education and outreach | <p>Goal: Develop long-term strategies to educate St. Clair County residents on the hazards affecting their county</p> <p>Objective: Improve education and training of emergency personnel and public officials</p> | Tornado, Flood, Earthquake, Thunderstorm, Drought, Winter Storm, Hazmat, Fire | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Low | The County EMA Coordinator will oversee the implementation of this project. Local resources will be used to develop, distribute, and evaluate the surveys. Surveys will be used in future planning efforts. If resources are available, implementation will begin within five years. |
| Improve public education on Premise Alert Program (PAP) | <p>Goal: Develop long-term strategies to educate St. Clair County residents on the hazards affecting their county</p> <p>Objective: Raise public awareness on hazard mitigation.</p> | Winter Storm | St. Clair County | Low | The County EMA Director will oversee this project. Local resources will be used to develop educational literature and present to each jurisdiction at public events or in schools. If resources are available, the project will be implemented within five years. |

St. Clair County Multi-Hazard Mitigation Plan

| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|--|---|-----------------------|---|----------|---|
| Install inertial valves in critical facilities | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Retrofit critical facilities with structural design practices and equipment that will withstand natural disasters and offer weather-proofing.</p> | Earthquake | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Low | The County EMA Director will oversee implementation of this project. Funding has not been secured as of 2010, but the PDM program and community grants are an option. If funding is available, implementation will begin within five years. |
| Establish cooling and warming centers and develop long-term sheltering | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Improve emergency sheltering in St. Clair County.</p> | Drought, Winter Storm | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Low | The County EMA Director will oversee the implementation of this project. Local resources will be used to identify the areas for shelters. Funding has not been secured as of 2010, but the pre-disaster mitigation program and community development grants are a possible funding source. Implementation, if funding is available, will begin within five years. |
| Complete a flood study | <p>Goal: Create new or revise existing plans/maps for Belleville.</p> <p>Objective: Conduct new studies/research to profile hazards and follow up with mitigation strategies.</p> | Flood | Belleville | Low | The Floodplain Manager and/or City Engineer for Belleville will work with IDNR for the implementation of this project. Funding will be sought from State and National resources. If funding is available, implementation will begin within five years. |
| Establish an ongoing community plan for stream "management" plan. | <p>Goal: Create new or revise existing plans/maps for St. Clair County</p> <p>Objective: Review and update existing, or create new, community plans and ordinances to support hazard mitigation.</p> | Flood | St. Clair County | Low | The levee and drainage district engineer(s), floodplain managers and local planning commission will work with the U.S. Corp of Engineers to develop a stream "management" plan. Local resources will be used to develop a plan. If resources are available, implementation will begin within five years. |

St. Clair County Multi-Hazard Mitigation Plan

| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|--|---|---|---|----------|--|
| Develop a plan for storage and care of pets in the event of a disaster | <p>Goal: Create new or revise existing plans/maps for Sullivan County</p> <p>Objective: Conduct new studies/research to profile hazards and follow up with mitigation strategies.</p> | Tornado, Flood, Earthquake, Thunderstorm, Drought, Winter Storm, Hazmat, Fire | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Low | The EMA Coordinator will oversee implementation of this strategy. Local resources will be used to evaluate sheltering capacities and care resources. The county will develop an appropriate plan. Additional funding may be sought from State resources. If funding is available, implementation will begin within five years. |

The St. Clair County Emergency Management Agency will be the local champions for the mitigation actions. The county commissioners and the city and town councils will be an integral part of the implementation process. Federal and state assistance will be necessary for a number of the identified actions. Southwestern Illinois Metropolitan and Regional Planning Commission is qualified to provide technical grant writing services to assist the county in seeking resources to achieve the recommended mitigation action.

5.5 Multi-Jurisdictional Mitigation Strategy

As a part of the multi-hazard mitigation planning requirements, at least two identifiable mitigation action items have been addressed for each hazard listed in the risk assessment and for each jurisdiction covered under this plan.

Each of the jurisdictions, including St. Clair County, were invited to participate in brainstorming sessions in which goals, objectives, and strategies were discussed and prioritized. Each participant in these sessions was armed with possible mitigation goals and strategies provided by FEMA, as well as information about mitigation projects discussed in neighboring communities and counties. In addition, surveys were sent to the incorporated communities which did not attend the mitigation strategy meeting. Several of the communities which to not attend the mitigation strategies meeting submitted their suggestion in writing on the distributed surveys (see Appendix A). All potential strategies and goals that arose through this process are included in this plan. The county planning team used FEMA's evaluation criteria to gauge the priority of all items. A final draft of the disaster mitigation plan was presented to all members to allow for final edits and approval of the priorities.

Section 6 - Plan Maintenance

6.1 Monitoring, Evaluating, and Updating the Plan

Throughout the five-year planning cycle, the St. Clair County Emergency Management Agency Coordinator will reconvene the MHMP planning committee to monitor, evaluate, and update the plan on an annual basis. Additionally, a meeting will be held during April 2015 to address the five-year update of this plan. Members of the planning committee are readily available to engage in email correspondence between annual meetings. If the need for a special meeting arises, due to new developments or a declared disaster, the team will meet as necessary to update mitigation strategies. Depending on grant opportunities and fiscal resources, mitigation projects may be implemented independently by individual communities or through local partnerships.

The committee will review the county goals and objectives to determine their relevance to changing situations in the county. In addition, state and federal policies will be reviewed to ensure they are addressing current and expected conditions. The committee will also review the risk assessment portion of the plan to determine if this information should be updated or modified. The parties responsible for the various implementation actions will report on the status of their projects and will include which implementation processes worked well, any difficulties encountered, how coordination efforts are proceeding, and which strategies should be revised.

Updates or modifications to the MHMP during the five-year planning process will require a public notice and a meeting prior to submitting revisions to the individual jurisdictions for approval. The plan will be updated via written changes, submissions as the committee deems appropriate and necessary, and as approved by the county commissioners.

The GIS data used to prepare the plan was obtained from existing county GIS data as well as data collected as part of the planning process. This updated HAZUS-MH GIS data has been returned to the county for use and maintenance in the county's system. As newer data becomes available, this updated data will be used for future risk assessments and vulnerability analyses.

6.2 Implementation through Existing Programs

The results of this plan will be incorporated into ongoing planning efforts. Many of the mitigation projects identified as part of this planning process are ongoing. Where needed, modifications will be made to the county and community planning documents and ordinances as part of regular updates. The mitigation plan will be used to help guide building code changes and land use planning.

6.3 Continued Public Involvement

Continued public involvement is critical to the successful implementation of the MHMP. Comments from the public on the MHMP will be received by St. Clair County Emergency Management Coordinator and forwarded to the MHMP planning committee for discussion.

St. Clair County Multi-Hazard Mitigation Plan

Education efforts for hazard mitigation will be ongoing through the local television stations, brochures, and yearly public meetings. Once adopted, a copy of this plan will be posted in the library and on the county website.

APPENDICES

Glossary of Terms

[A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#)

A

AEGL – Acute Exposure Guideline Levels
ALOHA – Area Locations of Hazardous Atmospheres

B

BFE – Base Flood Elevation

C

CAMEO – Computer-Aided Management of Emergency Operations
CEMA – County Emergency Services Disaster Agency
CEMP – Comprehensive Emergency Management Plan
CERI – Center for Earthquake Research and Information
CRS – Community Rating System

D

DEM – Digital Elevation Model
DFIRM – Digital Flood Insurance Rate Map
DMA – Disaster Mitigation Act

E

EAP – Emergency Action Plan
ERPG – Emergency Response Planning Guidelines
EMA – Emergency Services Disaster Agency
EPA – Environmental Protection Agency

F

FEMA – Federal Emergency Services Disaster Agency
FIRM – Flood Insurance Rate Maps
FIS – Flood Information Study

G

GIS – Geographic Information System

H

HAZUS-MH – **H**azards **USA** **M**ulti-**H**azard
HUC – Hydrologic Unit Code

I

IDNR – Illinois Department of Natural Resources
IEMA – Illinois Emergency Services Disaster Agency

M

MHMP – Multi-Hazard Mitigation Plan

N

NCDC – National Climatic Data Center
NEHRP – National Earthquake Hazards Reduction Program
NFIP – National Flood Insurance Program
NOAA – National Oceanic and Atmospheric Administration

P

PPM – Parts Per Million

R

RPI – Risk Priority Index

S

SPC – Storm Prediction Center
SWPPP – Stormwater Pollution Prevention Plan

U

USGS – United States Geological Survey

Appendix A – Minutes of the Multi-Hazard Mitigation Planning Team Meetings

ST. CLAIR COUNTY MEMORANDUM OF UNDERSTANDING (MOU)



Pat Quinn, Governor
Andrew Velasquez III, Director

May 18, 2009

Honorable Mark Kern, St. Clair County Board Chairman

Dear Chairman Kern:

The Southwestern Illinois Metropolitan and Regional Planning Commission, Southern Illinois University Carbondale, and the Polis Center at IUPUI are assisting St. Clair County with developing a Pre-Disaster Mitigation Plan. This study involves analyzing losses for buildings in the event of an earthquake, flood, or any other disaster. Your county is providing modeling data as a match for federal grant dollars. To analyze property at risk, we require the following information from your tax assessment system.

- Building Improvement value
- Land Improvement value
- Construction type (wood, etc.)
- Property Use
- Total square footage
- Basement square footage
- Property address
- Property City

In addition, Southern Illinois University Carbondale and the Polis Center require existing mapping information to accurately map the losses. This includes roads, parcels, and addresses. As part of the analysis, we will prepare data on the county's essential facilities and provide this back to the county for its future use. The data will be stored on a university server which will only be accessed by university modeling staff. This data will only be used to create the Pre Disaster Mitigation Plans and will not be disseminated or provided to any agency or organization.

Your cooperation in this data sharing and pre-disaster mitigation planning process will reduce loss of life and property damage resulting from a potential disaster. Please provide your written approval to Illinois Emergency Management Agency with a copy to Southern Illinois University Carbondale.

Sincerely

Ron Davis
State Hazard Mitigation Officer

Mark Kern, St. Clair County
Board Chairman



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Multi-Hazard Mitigation Plan

St. Clair County Planning Team Oversight Meeting, Assembly of the St. Clair County Planning Team, Meeting #1:

St. Clair County EMA Coordinator, Southwestern Illinois Metro & Regional Planning Commission, SIUC Geology Department, and IUPUI-Polis

Meeting Date: Wednesday, May 6, 2009 10:00 am

Meeting Time: 1.5 hours

Place: St. Clair County Emergency Operations Center (EOC)

Attendance:

Robert Knight, Coordinator, St. Clair County Emergency Management Agency

Jonathan Remo, SIUC Geology

Nicholas Pinter, SIUC Geology

Dave Coats, Polis

John Buechler, Polis

Mike Cronovich, Fairmont City Police Department

Bruce L. Green, City of Fairview Heights Fire Dept.

Richard C. Rohr, Village of New Athens EMA

Don Feher, St. Clair County EMA

Al Keuss, Village of Shiloh

Linda Tragesser, Southwestern Illinois Metro & Regional Planning Commission

The meeting was called to order.

Introduction to the Multi-Hazard Mitigation Planning Process

Dave Coats (associate director) and John Buechler (project manager) from IUPUI, Polis Center explained the Pre-Disaster Mitigation Planning Project. It was explained that FEMA, based on Federal legislation passed in 2000, required that all incorporated communities must have a Pre-Disaster Mitigation Plan in place to be eligible for FEMA mitigation funding. They also explained that a 25% match was needed to receive funding. John Buechler stated that the value of the GIS data and sweat equity that will be put into developing this plan would satisfy the match. He also expresses the importance of tracking and documenting the time spent on the project by each volunteer working on the project.

Dave Coats and John Buechler explained the process for developing the plan and that it will require a total of six meetings in each of the counties. They went into great detail about each of the meeting and the issues that would be addressed. They also estimated that the complete process of developing the plan would take about one year. Lastly, they introduced a website that the planning team will use to organize meeting, post documents, and to access minutes throughout the planning process.

St. Clair County Multi-Hazard Mitigation Plan

Dave Coats introduced the Planning Team Website. A username and password was given to the planning team to access the web site. He explained that this website is used to schedule meeting dates, contact information and to download material pertaining to the planning process.

Dave Coats noted that there are several components to the planning process. The 1st phase is to organize all the resources. The primary resource is the planning team members. Other resources will include GIS Data and Data from the Supervisor of Assessments Office.

This project is funded by a match grant from FEMA. A twenty-five percent local match will be required from each county to fund this project. The match will be met by sweat equity and GIS data acquired from each county. Sweat equity will be an accumulation of time spent at the meetings, on research assignments, surveys, time spent reviewing a document and time spent producing the planning document. The value of the match is estimated to be \$10,000 to \$15,000.

The 2nd phase is to assess the risk of the hazards that are present in the county. A profile of the county will be provided by Southwestern Illinois Metro & Regional Planning Commission. Phase 3 of this planning process is to develop a strategy and the projects that the county is interested in. Phase four is the implementation of those strategies over a period of time and monitoring their progress.

Nicholas Pinter added that this is not just an intellectual process. There will be work and research that will need to be performed to finish this project and to get funding for potential projects that result from this plan.

Dave Coats stated that FEMA will not provide funding for projects where the county has not produced a Pre-disaster Mitigation Plan. In the 1st meeting, the planning team will review and will be asked to research the location of all critical facilities within the county. He also discussed a plan for public participation. He explained that all of the meetings are open to the public but there will be a particular effort made to invite the public to the 3rd meeting when the plan is in draft form. At that meeting, SIUC Geology staff will discuss the geology of the area and several facts about this particular county.

In the 2nd meeting, a discussion will focus on disasters that are prone to this area. These hazards will be given a probability rating and ranked in a probability hierarchy. Polis and SIUC Geology will research these hazards and rank them. A special effort to encourage the public to attend and participate in the 3rd meeting. The Polis and SIUC Geology staff will produce a risk assessment in draft form; each planning team member will get a copy. Strategies and projects will be presented that FEMA and other counties have undertaken.

The 4th meeting consists of a brain storming session focused on the disasters that were modeled and what was learned about them through the analysis of the Chapter 4. The Planning Team will consider strategies and projects mitigate potential loss and damage. FEMA requires that for every identified potential hazard, a strategy to mitigate the loss and damage must be in place. The strategies may range from educational awareness to hardening a building or constructing a levee. Following that meeting, the plan will be in final draft form.

St. Clair County Multi-Hazard Mitigation Plan

At the 5th meeting the planning team will review and discuss the plan prior to forwarding it to IEMA. IEMA will review the plan and will make recommendations to it as they see fit and then it is submitted to FEMA for review and approval. Once it is approved by FEMA, the plan is sent back to the county.

At the 6th meeting the planning team will present the plan to the St. Clair County Board to be adopted. Every incorporated community must have one of these plans, or the communities may be included under the umbrella of the county plan. In order for that to happen, communities are encouraged to participate and contribute to plan development. Once the County Board has adopted the plan, each incorporated community will need to adopt the plan as well. Once the plan has been submitted to FEMA, local governments are eligible to apply for grants to mitigate these established hazards.

From there informal discussions began between attendees and team leaders concerning data that has already been made available to the SIU-C staff and that information still needed. Discussion concerning various critical facilities resulted in a commitment by St. Clair County key staff to complete identification of critical facilities provide the information to the SIU-C for completion of various mapping.

With remarks concluded, and no further discussion, the meeting was adjourned.

St. Clair County Multi-Hazard Mitigation Plan

Meeting Name NAMP #1 St. Clair Co. Date 5/6/2009

| Name | Email | Cell Phone/phone | Organization |
|-----------------|------------------------------|------------------|--------------------------------|
| John Buchler | Jbuech@iupui.edu | 317-278-2433 | the Polis Center |
| DAVE COATS | dcoats@iupui.edu | 317-258-4468 | Polis |
| AL KEUSS | engineering@shilohil.org | 618-632-1022 | Village of Shiloh City 4014 |
| BOB KNIGHT | bob.knight@co.st-clair.il.us | 618-835-2683 | ST CLAIR CO EMA |
| LINDA TRAGESSER | | | SUMARC |
| | | | |
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St. Clair County Multi-Hazard Mitigation Plan

ST CLAIR COUNTY

MULTI-HAZARD MITIGATION PLAN

MEETING #1

May 6, 2009 9:00 A.M.

ST CLAIR COUNTY EOC OFFICE

ATTENDEES

| NAME | ORGANIZATION | ADDRESS | PHONE | E-MAIL |
|-----------------|-----------------------|-------------------------------------|--------------|------------------------------|
| MARK Cronovich | Fairmont City | 2601 No 41st St Fairmont City | 618 274-4504 | FEPD500@AOL.COM |
| Bruce L. Green | Fairview city fire | 10045 Bunkum Rd | 618-394-8484 | BGreen@CBSSTL.com |
| Richard C. Rohr | Village of New Athens | 705 Spotsylvania St. | 618-475-2144 | villagenash@tc.net |
| Dow FETTER | St. Clair Co. EMA | 110 W. Massmanway St. Belleville IL | 618-906-4402 | Dow.Fetter@Co.St.Clair.IL.us |
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Multi-Hazard Mitigation Plan

St. Clair County Identification and Prioritization of Disasters :Meeting #2 :

Chairman & Primary Point of Contact: Robert Knight, St. Clair County EMA Coordinator
Plan Directors: Southwestern Illinois Metro & Regional Planning Commission, SIUC Geology Department, and IUPUI-Polis

Meeting Date: Thursday, June 18, 2009, at 9:00 am. **Meeting Time:** 1.5 hours

Place: St. Clair County EOC

Planning Team/Attendance:

Robert Knight, St. Clair County EMA
Jonathan Remo, SIUC Geology
Nicholas Pinter, SIUC Geology
Dave Coats, Polis
John Buechler, Polis
Brent Saunders, City O'Fallon Fire Department
Randy Lay, Village of Fayetteville Fire Department and St. Clair County EMA
Dan Valentine, Village of Smithton
Ray Klein, Mayor, Village of Smithton
Stephanie Townsend, Village of Dupo Police Department
Doug Keys, Village of Dupo
Roland O. Pitts, Village of Lenzburg
Raymond Jaimet, Village of Lenzburg
Alan Keuss, Village of Shiloh
William Black, Village of Caseyville
Harold Riefle, Village of Cahokia
Jackie Causey, Village of Washington Park
Weldon Harber, Village of Millstadt
Scott Penny, Village of Fairmont City
Bruce Fleshren, City of Mascoutah
Craig Coughlin, Village of Swansea
Alan Keuss, Village of Shiloh
Raymond Jaimet, Village of Lenzburg
Ronald O. Pitts, Village of Lenzburg
Bill Rainey, Village of New Athens Police
Arlene Geppert, Village of New Athens EMA
Jennifer Gain, City of Belleville
Eugene Kramer, Village of Freeburg
Nick Gailius, City of Fairview Heights
Chuck Kofron, St. Clair County Administration
Don Feher, St. Clair County EMA
Col. Johnnie Matt, Village of East Carondelet Police
Jerame Simmons, Village of East Carondelet Police
Linda Tragesser, Southwestern Illinois Planning Commission

The meeting was called to order.

St. Clair County Multi-Hazard Mitigation Plan

Hazard Identification and Prioritization

Nicholas Pinter of The SIU-C Geology Department advised the group that the purpose of Meeting #2 is to identify hazards and risks that threaten the citizens, facilities, and infrastructure that have been identified for St. Clair County in our previous meetings. The previous St. Clair County Comprehensive Emergency Management Plan (CEMP) did not contain a risk analysis. Additional local planning documents were reviewed to identify historical hazards and help identify risk, FIRM maps were discussed for the flood analysis.

The planning team developed and ranked a list of hazards that affect the county. The team identified

- tornadoes
- severe thunderstorms
- drought/extreme heat
- winter storms
- flooding / flash floods

The team also identified St. Clair County's principal technological hazards (in order of likelihood):

- 1) Earthquakes
- 2) land transportation accidents with hazardous material release,
- 3) Levee or dam failure
- 4) mine subsidence, and
- 5) fire\explosion.

In addition to these identified hazards, the MHMP planning committee reviewed the list of natural hazards prepared by FEMA, and historical storm event data was compiled from the National Climatic Data Center. This NCDC data is included in the Appendices.

Dr. Pinter advised that in addition to NCDC data, Storm Prediction Center (SPC) data associated with tornadoes, strong winds, and hail will be plotted in the display maps that will be provided at the Public Meeting.

Hazard Ranking Method

Based on planning team input the hazards St. Clair County will address in this multi-hazard mitigation plan as follows:

Tornado
Winter Storms
Earthquakes
Hazardous Material Release
Floods
Levee or Dam Failure
Extreme Heat
Severe Thunderstorms
Fire/Explosion

St. Clair County Multi-Hazard Mitigation Plan

Calculating the Risk Priority Index

The first step in determining the Risk Priority Index (RPI) was to have the planning team members generate a list of hazards which have befallen or could potentially befall their community. Next, the planning team members were asked to assign a likelihood rating based on the criteria and methods described in the following table. This ranking was based upon previous history and the definition of hazard. Using the definitions given, the likelihood of future events is "Quantified" which results in the classification within one of the four "Ranges" of likelihood.

| Probability | Characteristics |
|--------------------------|---|
| 4 - <i>Highly Likely</i> | Event is probable within the calendar year. Event has up to 1 in 1 year chance of occurring. (1/1=100%) History of events is greater than 33% likely per year. |
| 3 - <i>Likely</i> | Event is probable within the next three years. Event has up to 1 in 3 years chance of occurring. (1/3=33%) History of events is greater than 20% but less than or equal to 33% likely per year. |
| 2 - <i>Possible</i> | Event is probable within the next five years. Event has up to 1 in 5 years chance of occurring. (1/5=20%) History of events is greater than 10% but less than or equal to 20% likely per year. |
| 1 - <i>Unlikely</i> | Event is possible within the next ten years. Event has up to 1 in 10 years chance of occurring. (1/10=10%) History of events is less than or equal to 10% likely per year. |

Next, planning team members were asked to consider the potential magnitude/severity of the hazard according to the severity associated with past events of the hazard.

| Magnitude/Severity | Characteristics |
|-------------------------|--|
| 8 - <i>Catastrophic</i> | Multiple deaths. Complete shutdown of facilities for 30 or more days. More than 50% of property is severely damaged. |
| 4 - <i>Critical</i> | Injuries and/or illnesses result in permanent disability. Complete shutdown of critical facilities for at least 14 days. More than 25% of property is severely damaged. |
| 2 - <i>Limited</i> | Injuries and/or illnesses do not result in permanent disability. Complete shutdown of critical facilities for more than seven days. More than 10% of property is severely damaged. |
| 1 - <i>Negligible</i> | Injuries and/or illnesses are treatable with first aid. Minor quality of life lost. Shutdown of critical facilities and services for 24 hours or less. Less than 10% of property is severely damaged. |

Finally, the RPI was calculated by multiplying the probability by the magnitude/severity of the hazard. Using these values, the planning team members were then asked to rank the hazards. The

St. Clair County Multi-Hazard Mitigation Plan

following shows the RPI and ranking for each hazard facing St. Clair County as determined by the discussion of the planning team members.

| Hazard | Probability | Magnitude/Severity | Risk Priority Index | Rank |
|-----------------------------------|-------------------|--------------------|---------------------|------|
| Tornado | 4 - Highly Likely | 4 - Critical | 16 | 1 |
| Winter Storms | 4 - Highly Likely | 4 - Critical | 16 | 2 |
| Earthquakes | 2 - Possible | 8 - Catastrophic | 16 | 3 |
| Hazardous Material Transportation | 4 - Likely | 2 - Limited | 8 | 4 |
| Flooding | 4 - Likely | 2 - Negligible | 8 | 5 |
| Levee or Dam Failure | 2 - Possible | 4 - Critical | 8 | 6 |
| Extreme Heat | 3 - Likely | 2 - Limited | 6 | 7 |
| Severe Thunderstorms | 4 - Likely | 1 - Negligible | 4 | 8 |
| Fire/Explosion | 1 -Unlikely | 1 - Negligible | 8 | 9 |

The discussion made it clear that the jurisdictions in St. Clair County differ in their susceptibilities to certain hazards—for example: Several incorporated communities in the County felt ground subsidence related to underground mining was a significant hazard facing their community. Further, flood risk along the Mississippi River is significant within the American Bottoms communities, but communities above the bluff have little or no exposure to flooding. Finally, the planning team as a whole did not feel ground subsidence was a significant hazard to the entire county but some communities have considerable risk due to undermined areas and Karst areas. Some communities were not represented at the hazard ranking meeting, and for these communities the hazards identified by the planning team will be ranked by SIUC. The SIUC rankings will be based on input from the other planning team members, available historical data, and the hazard modeling results.

| Jurisdiction | Hazard | | | | | | | | | |
|------------------|---------|--------|-------------|----------------|--------|---------------|-------------|------------------|---------------------|--------------|
| | Tornado | HAZMAT | Earth-quake | Thunder-storms | Floods | Winter Storms | Sub-sidence | Fire / Explosion | Levee / Dam Failure | Extreme Heat |
| Alorton* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| Belleville | 1 | 7 | 5 | 3 | 9 | 4 | 6 | 2 | NA | 8 |
| Brooklyn | 4 | 1 | 8 | 5 | 2 | 3 | NA | NA | 7 | 6 |
| Cahokia | 1 | 4 | 3 | 8 | 5 | 2 | NA | 9 | 6 | 7 |
| Caseyville* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| Centreville* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| Collinsville* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| Columbia* | 1 | 4 | 3 | 7 | 9 | 2 | 5 | 10 | 8 | 6 |
| Dupo | 5 | 3 | 6 | 1 | 2 | 8 | NA | 9 | 4 | 7 |
| East Carondelet* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| East St. Louis* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| Fairmont City | 3 | 1 | 8 | 6 | 2 | 5 | NA | 7 | 4 | NA |
| Fairview Heights | 1 | 7 | 3 | 5 | 9 | 2 | NA | 4 | 8 | 6 |
| Fayetteville* | 1 | 4 | 3 | 5 | 9 | 2 | NA | 7 | 8 | 6 |
| Freeburg* | 1 | 4 | 3 | 8 | 5 | 2 | 9 | NA | 6 | 7 |
| Lebanon* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| Lenzburg | 3 | 5 | 9 | 1 | 8 | 2 | 6 | 7 | 10 | 4 |

St. Clair County Multi-Hazard Mitigation Plan

| Jurisdiction | Hazard | | | | | | | | | |
|-----------------|---------|--------|-------------|----------------|--------|---------------|-------------|------------------|---------------------|--------------|
| | Tornado | HAZMAT | Earth-quake | Thunder-storms | Floods | Winter Storms | Sub-sidence | Fire / Explosion | Levee / Dam Failure | Extreme Heat |
| Marissa* | 1 | 4 | 3 | 9 | 5 | 2 | 8 | 10 | 6 | 7 |
| Mascoutah | 1 | 4 | 5 | 2 | 7 | 6 | NA | NA | NA | 3 |
| Millstadt | 2 | 4 | 5 | 1 | 7 | 3 | 6 | NA | NA | NA |
| New Athens* | 1 | 4 | 3 | 8 | 5 | 2 | NA | 9 | 6 | 7 |
| New Baden* | 1 | 4 | 3 | 6 | 7 | 2 | 10 | 8 | 9 | 5 |
| O'Fallon | 1 | 2 | 3 | 4 | 8 | 5 | NA | 7 | 9 | 6 |
| Sauget* | 1 | 4 | 3 | 8 | 5 | 2 | 10 | 9 | 6 | 7 |
| Shiloh | 2 | 9 | 7 | 4 | 8 | 3 | 1 | 6 | NA | 5 |
| Smithton | 1 | 8 | 4 | 3 | 5 | 2 | NA | 7 | NA | 6 |
| St. Libory* | 1 | 4 | 3 | 6 | 5 | 2 | 10 | 9 | 8 | 7 |
| Summerfield* | 1 | 4 | 3 | 6 | 5 | 2 | 8 | 9 | 10 | 7 |
| Swansea | 1 | 4 | 7 | 2 | 6 | 3 | 8 | 5 | NA | NA |
| Washington Park | 3 | 7 | 8 | 4 | 1 | 2 | NA | NA | 6 | 5 |

* Ranked by SIUC
 NA = Not applicable

The planning team discussed the continued identification/location of critical facilities so SIU-C can map and model these facilities according to threats identified within two weeks. The next meeting will be a public meeting to report on the hazards modeled and threats identified. That meeting will be held at the end of June and will be held in the afternoon (2:00) at the St. Clair County EOC. The meeting will be publicized by press release and the public will be encouraged to attend and provide input.

Meeting was adjourned.

St. Clair County Multi-Hazard Mitigation Plan

ST CLAIR COUNTY

MULTI-HAZARD MITIGATION PLAN MEETING #2

June 18, 2009 9:00 A.M.

ST CLAIR COUNTY EOC OFFICE
ATTENDEES

| NAME | ORGANIZATION | ADDRESS | PHONE | E-MAIL |
|------------------|----------------------|----------------------------------|--------------|--------------------------|
| Brent Saunders | O'Fallon Fire | 255 S. Lincoln O'Fallon | 618-624-4519 | b.saunders@offallon.org |
| RANDY LAY | ST. CLAIR COUNTY | 110 W. WASHINGTON BLOOMING | 618-825-2684 | LAY5000@SOSCLAIROGAL.NET |
| DAVE VALENTINE | VILLAGE OF SMITHTON | SMITHTON IL 62281 | 283 4160 | |
| RAY KLEIN | VILLAGE OF SOUTHEN | SMITHTON IL 62285 | 233-4180 | RAY.KLEIN@SOUTHEN.COM |
| Stephanie Towand | Village of Dupo | 100 N. and Dupo 62239 | 386-3397 | dupopolice@yohoo.com |
| Doug Keys | Village of Dupo | 100 N. and Dupo 62239 | 286-3397 | dkeys@htc.net |
| RONALD PITTS | Village of Lenzburg | 215 N CHURCH LENZBURG, 62255 | 618-475-3347 | WATERWORKS@HTC.NET |
| Ronald Jantz | Village of Lenzburg | 404 North Chale, Lenzburg | 618 475 3770 | K.Jantz@htc.net |
| ALAN KEISS | VILLAGE OF SHILOH | 1 PARK DR SHILOH IL 62269 | 632-1022 | engineering@shiloh.org |
| LINDA TRAGESSER | SUTILL PAVING CORP | 2511 VANDALIA COLLINSVILLE 62234 | 344-4250 | ltragesser@simago.com |
| WILLIAM BLACK | VILLAGE OF CHASEVIEW | 909 S. MAIN ST 62232 | 344-1254 | |
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St. Clair County Multi-Hazard Mitigation Plan

ST CLAIR COUNTY

MULTI-HAZARD MITIGATION PLAN MEETING #2

June 18, 2009 9:00 A.M.

ST CLAIR COUNTY EOC OFFICE

ATTENDEES

| NAME | ORGANIZATION | ADDRESS | PHONE | E-MAIL |
|------------------|----------------------|----------------------------------|------------------------|---------------------------|
| Harold Roffe | Cahokia ESDA | 102 main st. Cahokia, IL | 337-9500 | shofarunro@SCECball.net |
| Jackie Causey | Washington Park | 5218 N Park Drive | 874-2040 | jackie.causey@yahoo.com |
| Weldon Harber | Millsford | 111 W Laurel St. | 476-1514 | millstadtmayor@htc.net |
| Scott Penny | Fairmont City | 2601 N. 41st St | 274-4504 | SEPENNY@Dps.com |
| Bruce Pabstman | MASCANTON | 43 v. main st. MASCANTON | 566-2976 | B.Pabstman@MASCANTON.com |
| Craig Coughlin | SARASOTA P.D. | 1400 N. ILLINOIS | 233-8114 | SCRAIGCPD@htc.net |
| Alex Kross | Village of SHILOH | 1 PARK DR SHILOH, IL 62209 | 632-10222 | engineering@shilohil.org |
| Raymond J. Pitts | Village of L. Harris | 404 North Charles | 618-4737770 | K.J.pitts@l.harris.il.gov |
| Ronald Pitts | Village of LEXINGTON | 112 S MAIN LEXINGTON, IL | 6189792570 | OLIN1964@yahoo.com |
| Bill Rainey | New Athens Police | 905 Spotsylvania New Athens, IL | 618-4752145 | bill.villagena@htc.net |
| Arlene Grogan | New Athens GSDA | 901 Belknap St. New Athens, IL | 618-473-3334 | |
| JENNIFER GAIN | CITY OF BELLEVILLE | 101 S ILLINOIS, BELLEVILLE 62220 | 618-233-6810 XT 207 | joain@belleville.net |
| BOB KNIGHT | ST CLAIR CO | 110 W. WASHINGTON, BELLEVILLE | 618-235-2683 | bob.knight@st-clair-il.us |

St. Clair County Multi-Hazard Mitigation Plan

Meeting Name DISASTER MITIGATION Date 06-18-09

Sign In Sheet

| Name | Email | Cell Phone/phone | Organization |
|-----------------------------|----------------------|------------------|--------------------|
| Col. Joseph M. Mott | Jsimmons1979@hotmail | 618 779-4351 | EAST CHANDLER P.D. |
| Asst. Director Jerome Simms | Jsimmons1979@hotmail | 618 779-4351 | East Chandler P.D. |
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SOUTHWESTERN ILLINOIS PLANNING COMMISSION

John Hamm, III
PRESIDENT
Gail Mitchell
1st. VICE-PRESIDENT
Liz Sanchez - Setser
2nd. VICE PRESIDENT
David Meyer
SECRETARY
Terry Moore
TREASURER

EXECUTIVE COMMITTEE

Madison County

Alan Dunstan
John Hamm, III
Gary Stalhut
Liz Sanchez - Setser
Donald Sandidge
Robert Wydra

St. Clair County

Mark Kern
Robert Eastern
Gail Mitchell
Vernon Dennis
Randy McCallum
Frank Heiligenstein

Monroe County

Mike Kovarik
Ron A. Polka

Randolph County

Terry Moore
Terry Luehr

Bond County

Jill Franks
Frank Lucco

Clinton County

Raymond Kloeckner
Lavern Holtgrave

Washington County

David Meyer
Victor Shubert

EXECUTIVE DIRECTOR

Kevin Terveer

PRESS RELEASE

September 3, 2009

For Immediate Release

For more information contact: Robert Knight, Coordinator
St. Clair County Emergency Management Agency
(618) 825-2683

OR

Linda Tragesser, Southwestern Illinois Planning Commission
(618) 344-4250 ext. 110

2511 Vandalia Street
Collinsville, IL 62234-5034
(618) 344-4250
FAX: (618) 344-4253

PUBLIC MEETING ON ST CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN

The St. Clair County Multi-Hazard Mitigation Steering Committee will host a public information and strategy planning session at 2:00 p.m. on Thursday, September 17, 2009 at the St. Clair County Emergency Operations Center, 110 W. Washington Street, Belleville.

St. Clair County and Southwestern Illinois Planning Commission have formed an alliance with The Polis Center of Indiana University-Purdue University Indianapolis (IUPUI) and Southern Illinois University-Carbondale to identify potential natural hazards and to produce a mitigation plan to address the issues. The ongoing efforts of the partnership will result in a Multi-Hazard Mitigation Plan (MHMP), which will seek to identify potential natural hazards for St. Clair County, and then establish a mitigation measure that is intended to reduce or eliminate the negative impact that a particular hazard may have on the locality.

Over the last several months the steering committee has been working with The Polis Center and staff from the SIU-Carbondale Geology Department to develop a Multi-Hazard Mitigation Plan (MHMP) for the county to submit to the Federal Emergency Management Agency for approval.

The Federal Emergency Management Agency (FEMA) now requires each unit of government in the United States to have a FEMA-approved MHMP, so completion of the St. Clair County plan is critical. The MHMP's will serve as framework for developing hazard mitigation projects that will reduce the negative impacts of future disasters on the communities and unincorporated areas of the county. Examples of projects that have been completed by some communities include storm shelters, warning sirens, flood walls, and fire protection enhancements.

The steering committee has identified the following hazards: flooding, tornado, thunderstorms/high winds/hail, hazardous materials release, drought/extreme heat, earthquake, and severe winter storms. The committee then selected hazards for The Polis Center to model with HAZUS-MH, a GIS-based risk mitigation tool developed by FEMA. HAZUS-MH is capable of predicting the probable impacts of specific disasters in terms of financial, human life, and safety impacts, as well as various others. At the September 17th meeting the steering committee will discuss the results of the computer modeling and projections for each potential disaster.

Once the plan is completed the committee will submit it to FEMA for approval. The committee will also work to develop funding for any mitigation activities that are identified.

The public is invited to attend the September 17th meeting, and the steering committee is interested in receiving public input on the plan. Questions concerning the public meeting may directed to Robert Knight, Coordinator, St. Clair County Emergency Management Agency 825-2683.

Multi-Hazard Mitigation Plan Minutes

Assembly of the St. Clair County Planning Team, Public Meeting, Meeting #3:

Plan Directors: Southwestern Illinois Metro & Regional Planning Commission, SIUC Geology Department, and IUPUI-Polis

Meeting Date: Thursday, September 17, 2009 at 2:00 p.m.

Meeting Time: 1.5 hours

Place: St. Clair County EOC

Planning Team/Attendance:

Robert Knight, Coordinator, St. Clair County Emergency Management Agency
Jonathan Remo, SIUC Geology
Nicholas Pinter, SIUC Geology
Randy Lay, Village of Fayetteville
Weldon Harber, Mayor, Village of Millstadt
Nick Gailius, City of Fairview Heights Police Dept.
Jennifer Gain, City of Belleville
Scott Lanxon, Chief, Belleville Fire Department
Patrick Delaney, Chief, Village of Sauget Police Department
Bruce Fleshren, City of Mascoutah Police Department
Rodney Lewis, City of East St. Louis Fire Department
Chuck Kofron, St. Clair County Data Processing
Craig Stafford, City of Belleville Police Department
Al Keuss, Village of Shiloh
Rodney Lewis, City of Centreville, Director of Planning
Brian Vielweber, Village of Smithton
Ray Klein, Mayor, Village of Smithton
Eugene Kramer, Village of Freeburg EMA
Linda Tragesser, Southwestern Illinois Metro & Regional Planning Commission

The meeting was called to order.

Dr. Nicholas Pinter welcomed everyone to the meeting and introduced the lead agencies and plan directors involved in the formulation of the St. Clair County Multi-Hazard Mitigation Plan. He provided the audience with background information concerning the County's need for a Multi-Hazard Mitigation Plan and explained that this project is mandated by the Federal Disaster Mitigation Act of 2000. Dr. Pinter pointed out that the plan was being done at no cost to St. Clair County thanks to a grant received from FEMA and the Illinois Emergency Management Agency, and that the County's twenty-five percent required match to FEMA's grant would be provided by work and data input into the plan by County staff, and by the "sweat equity" provided by the Planning Team participants.

St. Clair County Multi-Hazard Mitigation Plan

Dr. Pinter then explained that this was the third in a series of Plan meetings, and is planned as a public meeting to present the Hazard Risk Assessment that had been developed with input received during the first two meetings of the Planning Team, and through computer modeling carried out by the SIU-Carbondale Geography Department and facilitated by the POLIS group from IUPUI. Dr. Pinter then proceeded with the presentation of the Hazard Risk Assessment.

Hazard Risk Assessment

Dr. Pinter began his presentation by providing a list of natural hazards that had occurred historically within the County and provided a rating of their potential risk. He explained that the list had been discussed, expanded, and prioritized during the second meeting of the Planning Team, and that the list is in draft form and subject to reevaluation during the planning process. Dr. Pinter then provided historical references of past natural hazard occurrences in St. Clair County and discussed the extent to which these hazards had impacted the County. He went on to suggest some solutions the County could act upon to limit or eliminate the effect hazards might have in the future. These solutions primarily involved avoidance of, protection from, and preparation for the hazards. He provided the definition of mitigation and explained how hazard mitigation evolves in the planning process.

Dr. Pinter then present the full risk assessment that is included in Section 4 of the draft plan document after briefly describing all of the different Sections included in the draft plan. He outlined the format of Section 4, and detailed the sources from which the information was accumulated. He explained how the methods and calculation were established, and focused on particular hazards that had been modeled by the HAZUS-MH computer software that simulates the circumstances and resulting cost analysis generated by a given, defined hazard. In particular, he outlined the modeling developed for:

- a hypothetical F-4 tornado,
- a hypothetical 100-year over-bank flood event,
- a hypothetical 7.7 earthquake along the New Madrid Fault,
- a 5.5 earthquake along the Wabash Valley Fault, and
- an ALOHA Plume modeling for an ammonia leak hypothetically occurring in the City of Breese.

Estimates of the numbers of buildings and facilities damaged, as well as cost estimates and loss of life estimates were presented for each of the scenarios.

Following the presentation on risk assessment Dr. Pinter explained that at the next meeting of the Planning Team would be for the purpose of identifying mitigation projects and strategies that needed to be planned and implemented in the County and its communities in order to minimize or reduce the risk presented by the potential hazards identified. Each person would receive a copy of the FEMA publication, "*Mitigation Ideas*", and Dr. Pinter asked each person to come to the next

St. Clair County Multi-Hazard Mitigation Plan

meeting prepared to provide five ideas they think need to occur in the County, or in their community, to mitigate for the hazards identified.

Dr. Pinter further explained that once all the information and suggestions on mitigation and plan implementation are compiled, a preliminary draft of the plan document will be provided to the Planning Team for discussion and approval. Following local review, revision, and approval a final draft is forwarded to IEMA for review and approval. The IEMA then submits the draft plan to FEMA for its approval. Following FEMA approval, the document is then presented by the Planning Team to the St. Clair County Board for Adoption, and would then be submitted to the municipal councils and boards for adoption.

The next meeting of the St. Clair County MHMP committee will be scheduled for November or early December, 2009 at the St. Clair County EOC at 9:00 a.m.

Meeting was adjourned.

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY
 MULTI-HAZARD MITIGATION PLAN COMMITTEE MEETING
 SEPTEMBER 17, 2009 2:00 P.M.
 ST. CLAIR COUNTY EMERGENCY OPERATIONS CENTER 110 W. WASHINGTON ST. BELLEVILLE, IL

ATTENDEES

| NAME | REPRESENTING | MUNICIPALITY OF RESIDENCE | E-MAIL |
|-----------------|------------------------------------|---------------------------|-------------------------------|
| RANDY LAY | SCC EMA / SCSES | FAYETTEVILLE | LAYSOU@SSC6454C.NET |
| Nelson Harber | Village of Millstadt | | millstadin@hntc.net |
| NICK GALLUS | CITY OF FAIRVIEW HEIGHTS | | GALLUS@FAIRVIEWPD.ORG |
| Jennifer Gaur | Belleville | Belleville | jgaur@belleville.net |
| Scott Hanson | BELL FIRE | Belleville | bvlch1@bellsouth.net |
| PATRICK DELANEY | SAUGET P.D. | SAUGET | SAUGETPOLICE1@YAHOO.COM |
| BAVE FLESHER | MASCOUTAH CO | MASCOUTAH | BAVEFLESHER@MASCOUTAH.COM |
| Rodney Lewis | CITY OF CENTREVILLE / E. ST. LOUIS | centreville | wfenny@aol.com |
| Chuck Kofrow | SCC DATA PROCESSING | ST. CLAIR COUNTY | f.lewis@scscc.org |
| CRAIG STAFFORD | BELLEVILLE PD | BELLEVILLE | STAFFORD@BELLEVILLEPOLICE.ORG |
| BOB KNIGHT | ST CLAIR CO | COUNTY | BOB.KNIGHT@STCLAIR.IL.GOV |
| AL KEUSS | VILLAGE OF STALWART | STALWART | engineering@ststalw.art.org |
| Brian Vielweber | Village of Smithton | Smithton | spdy4@norcom9000.com |
| RAY KLEIN | VILLAGE OF SMITHTON | SMITHTON | RAY.KLEIN@SMITHTON.IL.GOV |

ST. CLAIR COUNTY
 MULTI-HAZARD MITIGATION PLAN COMMITTEE MEETING
 SEPTEMBER 17, 2009 2:00 P.M.
 ST. CLAIR COUNTY EMERGENCY OPERATIONS CENTER 110 W. WASHINGTON ST. BELLEVILLE, IL

ATTENDEES

| NAME | REPRESENTING | MUNICIPALITY OF RESIDENCE | E-MAIL |
|----------------|---------------|---------------------------|----------------|
| Suzanne Kranna | Freeburg ESDA | ESDA Municipality | Suzanne@NT.NET |
| LINDA TRASSER | SIMAR | | |
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Multi-Hazard Mitigation Plan Minutes

Assembly of the St. Clair County Planning Team, Mitigation Strategies, Meeting #4:

Robert Knight, Primary Point of Contact and St. Clair County EMA Coordinator
Plan Directors: Southwestern Illinois Metro & Regional Planning Commission, SIUC Geology Department, and IUPUI-Polis

Meeting Date: Thursday, December 3, 2009 at 9:00 p.m.

Meeting Time: 1.5 hours

Place: St. Clair County EOC

Planning Team/Attendance:

Robert Knight, Primary Point of Contact and Coordinator, St. Clair County EMA
Jonathan Remo, SIUC Geology
Nicholas Pinter, SIUC Geology
Ray Klein, Mayor, Village of Smithton
Bruce Fleshren, City of Mascoutah
Weldon Harber, Mayor, Village of Millstadt
Nick Gailius, City of Fairview Heights
Alan Keuss, Village of Shiloh
Chuck Kofron, St. Clair County Data Processing
Randy Lay, Village of Fayetteville
Rodney Lewis, City of East St. Louis Fire Dept/City of Centreville, Dir. of Planning
Linda Tragesser, Southwestern Illinois Metro & Regional Planning Commission
Jonathan Remo SIUC Geology
Nicholas Pinter SIUC Geology
Dave Coats Polis Center
Laura Danielson Polis Center

The meeting was called to order

Jonathan Remo of SIUC-C Geography Department reviewed the objectives of this planning project, and reviewed progress on the plan to date. Dr. Remo explained the purpose of today's meeting as developing Mitigation Strategies for the hazards that have previously been identified and prioritized.

Each member had a copy of the FEMA publication, *Mitigation Ideas*. The group then went through the list of hazards discussing each, identifying mitigation activities the County or a community might already have enacted, and addressing each hazard with one or more mitigation

St. Clair County Multi-Hazard Mitigation Plan

idea. After all the strategies were listed Dr. Remo asked the attendees to prioritize them weighing their overall merit against the estimated benefits of each mitigation action.

The following list of Mitigation Activities already implemented was identified:

| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|--|---|--|---|----------|--|
| Upgrade existing and install new warning sirens | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Evaluate and strengthen the communication and transportation abilities of emergency services throughout the county.</p> | Tornado, Flood, Earthquake, Thunderstorm, Winter Storm | East St. Louis, Centerville | High | The County EMA Coordinator will oversee the implementation of the project. Local resources will be used to evaluate, install, and maintain the warning systems. Additional funding will be sought from other funding sources, e.g. PDM program, to expand the warning system coverage area. Implementation, if funding is available, is forecasted to begin within one year. |
| Harden infrastructure, especially firehouses and other critical facilities | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Retrofit critical facilities and structures with structural design practices and equipment that will withstand natural disasters and offer weather-proofing.</p> | Tornado, Thunderstorm, Earthquake | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | High | The EMA Coordinator will oversee this project. Funding has not been secured as of 2010, but the PDM program and community development grants are a possibility. If funding is available, implementation will begin within one year. |
| Develop an evacuation plan for communities within the Mississippi River Floodplain incase of levee overtopping or failure. | <p>Goal: Educate floodplain residence of the potential flood hazard and provide a plan in which to effectively evacuate at risk citizens.</p> <p>Objective: Improve understanding of flood risk for floodplain residence and develop a plan in which local emergency official can implement incase of imminent levee failure.</p> | Flood, Earthquake | Alorton, Brooklyn, Cahokia, Caseyville, Centerville, Collinsville, East, Carondelet, East St. Louis, Dupo, Sauget, Washington Park | High | The EMA Coordinator will work with local planning commission, local emergency management officials, IEMA, and FEMA to develop the evacuation plan and educate the public about the potential hazard and plan. If funding is available, implementation will begin within one year. |

St. Clair County Multi-Hazard Mitigation Plan

| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|--|---|--------------------------|---|-----------------|---|
| Improve emergency response training to focus on pipe line disasters | <p>Goal: Develop long-term strategies to educate St. Clair County residents on the hazards affecting their county</p> <p>Objective: Improve education and training of emergency personnel and public officials</p> | Earthquake, Hazmat | St. Clair County | High | The EMA Coordinator will work with local first responders to research training options. The county will request funding for training and equipment from IEMA. If funding is available, implementation will begin within one year. |
| Repair and/or improve levees and retention areas throughout the county | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Retrofit critical facilities with structural design practices and equipment that will withstand natural disasters and offer weather-proofing.</p> | Flood | St. Clair County | High | The levee and drainage district engineer(s) will work with the U.S. Corp of Engineers to implement this strategy. Funding will be sought from local, state, and federal resources. If funding is available, implementation will begin within one year. |
| Establish a public outreach program to inform county residents of earthquake threats and possible consequences; perform non-structural earthquake mitigation such as bolting water heaters and bookshelves | <p>Goal: Develop long-term strategies to educate St. Clair County residents on the hazards affecting their county</p> <p>Objective: Raise public awareness on hazard mitigation.</p> | Earthquake | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Medium | The EMA Coordinator will oversee this project. Local resources will be used to develop educational literature and present to each jurisdiction at public events or in schools. If resources are available, the project will be implemented within three years. |
| Purchase additional snow removal and tree trimming equipment | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Equip public facilities and communities to guard against damage caused by secondary effects of hazards.</p> | Winter Storm | St. Clair County | Medium | The EMA Coordinator will work with the County Engineer and local municipality Superintendents oversee this project. Funding has not been secured as of 2010, but the PDM program and community development grants are a possibility. If funding is available, implementation will begin within three years. |

St. Clair County Multi-Hazard Mitigation Plan

| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|--|---|--------------------------------------|---|-----------------|---|
| Bury critical utility lines to prevent power outages or loss of telecommunications to essential or critical facilities during a severe winter storm or other type of severe weather event. | <p>Goal: Lessen the impacts of hazards to existing infrastructure</p> <p>Objective: Reduce or eliminate power or communication interruptions to essential and critical facilities.</p> | Winter storm, Tornado, Thunderstorm, | St. Clair County | Low | The County EMA Coordinator will work with critical facility managers and local power companies to identify utility lines to be buried. Funding has not been secured as of 2010, but the PDM program and community development grants are a possibility. If funding is available, implementation will begin within five years. |
| Complete a study of dangerous transportation segments | <p>Goal: Create new or revise existing plans/maps for St. Clair County</p> <p>Objective: Conduct new studies/research to profile hazards and follow up with mitigation strategies.</p> | Hazmat | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Medium | Community planners and local government leaders will coordinate this study. Funding will be requested from community grants or IEMA. Implementation will begin within three years. |
| Establish a method of mass community notification | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Evaluate and strengthen the communication and transportation abilities of emergency services throughout the county.</p> | Hazmat | Belleville | Medium | The County EMA Coordinator will oversee the implementation of the project. Funding will be sought from other funding sources, e.g. PDM program, to determine the warning system coverage area. Implementation, if funding is available, is forecasted to begin within three years. |
| Conduct stream maintenance in Silver Creek | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Evaluate and strengthen the communication and transportation abilities of emergency services throughout the county.</p> | Flood | St. Clair County and Mascoutah | Medium | The County Engineer will work with the representative from Mascoutah and U.S. Corp of Engineers to implement this strategy. IEMA and IDNR are potential funding sources. If funding is available, implementation will begin within three years. |

St. Clair County Multi-Hazard Mitigation Plan

| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|---|--|---|---|-----------------|--|
| Increase capacity for the culvert beneath IL 159 | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Minimize the amount of infrastructure exposed to hazards.</p> | Flood | Smithton | Medium | The County Highway Engineer, representatives from Smithton, and IDOT will oversee the implementation of this project. Funding has not been secured as of 2010, but IDOT is a possible funding source. Implementation, if funding is available, will begin within three years. |
| Improve storm drainage from the eastern portion of the county to west of the Mississippi River Bluffs | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Minimize the amount of infrastructure exposed to hazards.</p> | Flood | St. Clair County | Medium | The levee and drainage district engineer(s) will work with the U.S. Corp of Engineers to assess the condition of the county's waterways and drainage and develop a plan. Funding has not been secured as of 2010, but county, state, and federal funding will be sought. Implementation will begin within three years. |
| Complete a community survey to determine existing notifications and improve public education and outreach | <p>Goal: Develop long-term strategies to educate St. Clair County residents on the hazards affecting their county</p> <p>Objective: Improve education and training of emergency personnel and public officials</p> | Tornado, Flood, Earthquake, Thunderstorm, Drought, Winter Storm, Hazmat, Fire | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Low | The County EMA Coordinator will oversee the implementation of this project. Local resources will be used to develop, distribute, and evaluate the surveys. Surveys will be used in future planning efforts. If resources are available, implementation will begin within five years. |
| Improve public education on Premise Alert Program (PAP) | <p>Goal: Develop long-term strategies to educate St. Clair County residents on the hazards affecting their county</p> <p>Objective: Raise public awareness on hazard mitigation.</p> | Winter Storm | St. Clair County | Low | The County EMA Director will oversee this project. Local resources will be used to develop educational literature and present to each jurisdiction at public events or in schools. If resources are available, the project will be implemented within five years. |

St. Clair County Multi-Hazard Mitigation Plan

| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|--|---|-----------------------|---|----------|---|
| Install inertial valves in critical facilities | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Retrofit critical facilities with structural design practices and equipment that will withstand natural disasters and offer weather-proofing.</p> | Earthquake | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Low | The County EMA Director will oversee implementation of this project. Funding has not been secured as of 2010, but the PDM program and community grants are an option. If funding is available, implementation will begin within five years. |
| Establish cooling and warming centers and develop long-term sheltering | <p>Goal: Lessen the impacts of hazards to new and existing infrastructure</p> <p>Objective: Improve emergency sheltering in St. Clair County.</p> | Drought, Winter Storm | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Low | The County EMA Director will oversee the implementation of this project. Local resources will be used to identify the areas for shelters. Funding has not been secured as of 2010, but the pre-disaster mitigation program and community development grants are a possible funding source. Implementation, if funding is available, will begin within five years. |
| Complete a flood study | <p>Goal: Create new or revise existing plans/maps for Belleville.</p> <p>Objective: Conduct new studies/research to profile hazards and follow up with mitigation strategies.</p> | Flood | Belleville | Low | The Floodplain Manager and/or City Engineer for Belleville will work with IDNR for the implementation of this project. Funding will be sought from State and National resources. If funding is available, implementation will begin within five years. |
| Establish an ongoing community plan for stream "management" plan. | <p>Goal: Create new or revise existing plans/maps for St. Clair County</p> <p>Objective: Review and update existing, or create new, community plans and ordinances to support hazard mitigation.</p> | Flood | St. Clair County | Low | The levee and drainage district engineer(s), floodplain managers and local planning commission will work with the U.S. Corp of Engineers to develop a stream "management" plan. Local resources will be used to develop a plan. If resources are available, implementation will begin within five years. |

St. Clair County Multi-Hazard Mitigation Plan

| Mitigation Item | Goals and Objects Satisfied | Hazards Addressed | Jurisdictions Covered | Priority | Comments |
|--|---|---|---|----------|--|
| Develop a plan for storage and care of pets in the event of a disaster | <p>Goal: Create new or revise existing plans/maps for Sullivan County</p> <p>Objective: Conduct new studies/research to profile hazards and follow up with mitigation strategies.</p> | Tornado, Flood, Earthquake, Thunderstorm, Drought, Winter Storm, Hazmat, Fire | St. Clair County, Alorton, Belleville, Brooklyn, Cahokia, Caseyville, Collinsville, Columbia, Dupo, East Carondelet, East St. Louis, Fairmount City, Fairview Heights, Fayetteville, Freeburg, Lebanon, Lenzburg, Marissa, Mascoutah, Millstadt, New Athens, New Baden, O'Fallon, Sauget, Shiloh, Smithton, St. Libory, Summerfield, Swansea, Washington Park | Low | The EMA Coordinator will oversee implementation of this strategy. Local resources will be used to evaluate sheltering capacities and care resources. The county will develop an appropriate plan. Additional funding may be sought from State resources. If funding is available, implementation will begin within five years. |

Following the prioritization exercises and recording the results, Dr. Remo advised that at the next meeting we will review and discuss the preliminary draft of the plan and make updates or corrections.

Meeting #5 will be held in late February, 2010 at the St. Clair County EOC.

Meeting was adjourned.

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY
 MULTI-HAZARD MITIGATION PLAN COMMITTEE MEETING #4
 December 3, 2009 9:00 A.M. ST. CLAIR COUNTY EMERGENCY OPERATIONS CENTER (EOC)

ATTENDEES

| NAME | REPRESENTING | MUNICIPALITY OF RESIDENCE | E-MAIL |
|------------------|------------------------------|---------------------------|---------------------------------|
| BOB KLEIN | VILLAGE OF SHILOH | SAME | |
| Laura Dunitzky | The Polis Ctr | | |
| DAVE COATS | " " | | |
| BONNIE FLESHMAN | MASCOUTAH | | |
| CRIS STAFFORD | BELLEVILLE P.D. | BELLEVILLE | STAFFORD.C@BELLEVILLEPOLICE.ORG |
| Melinda Horvath | Village of Millstadt | Millstadt | millstadt-mayor@htc.net |
| NICK GAHUS | CITY OF FAIRVIEW HD. | FAIRVIEW HD. | |
| ARON KESS | VILLAGE OF SHILOH | SHILOH, IL. | engineering@shilohil.org |
| CHUCK KOFAN | SCC DP | | ckof |
| RANDY LAY | VILLAGE OF PANTHERVILLE/SCC | SAYRETVILLE/IL COUNTY | LAY5000@PANTHERVILLE.NET |
| BOB KNIGHT | ST. CLAIR EMA | | |
| Rodney Lewis | Centerville / East St. Louis | county | fireengine@stclair.org |
| LINDA TRAGESSIER | SUMAPC | BELLEVILLE | |

Multi-Hazard Mitigation Plan Minutes

Assembly of the St. Clair County Planning Team, Mitigation Strategies, Meeting #5:

Chairman & Primary Point of Contact: Robert Knight, Coordinator, St. Clair County EMA
Plan Directors: Southwestern Illinois Metro & Regional Planning Commission, SIUC Geology Department, and IUPUI-Polis

Meeting Date: Thursday, April 15, 2010 at 10:00 a.m.

Meeting Time: 1.5 hours

Place: St. Clair County Emergency Operations Center

Planning Team/Attendance:

Randy Lay, Coordinator, St. Clair County EMA
Jonathan Remo, SIU-Carbondale Geology Department
Linda Tragesser, Southwestern IL Planning Commission
Lisa Ervie, Village Clerk, Village of St. Libory
Mike Arnold, Chief of Police, Village of Swansea
Parke Smith, City Administrator, City of Lebanon
Eugene Kramer, ESDA Coordinator, Village of Freeburg
Tom Prather, Chief of Police, Village of Marissa
Ray Klein, Mayor, Village of Smith
Isaac Turner, Fire Chief, Village of Alorton
Craig Stafford, Sergeant & Administrative Assistant, City of Belleville Police Department
David E. Williams, Trustee, Village of Summerfield
Weldon D. Harber, Mayor, Village of Millstadt
Al Keuss, Staff Engineer, Village of Shiloh
Patrick Delaney, Police Chief, Village of Sauget
Scott Penny, Police Chief, Village of Fairmont City
Nathaniel O'Bannon, Mayor, Village of Brooklyn
Ralph Wellmaker, Village of Brooklyn
Al McCarthy, Village of Brooklyn
Bob Belba, Fire Chief, Village of Fairmont City
Don Feher, Assistant Coordinator, St. Clair County EMA

Meeting was called to order.

Dr. Remo of SIU-C explained the planning process thus far, and described the method we would use to review the draft copy of the plan. Linda Tragesser of Southwestern Illinois Metropolitan

St. Clair County Multi-Hazard Mitigation Plan

and Regional Planning Commission provided everyone with a PDF copy of the preliminary draft of the St. Clair County Plan prior to the meeting so that everyone could review it. She acknowledged that the draft had been updated with information provided by Dr. Remo of SIU-C subsequent to the circulation of the draft copies to the committee.

Committee members were asked to voice any opinions or suggest any corrections or changes that need to be made in the plan. The following is a summary of the changes needing to be made:

| PLAN SECTION & PAGE | DESCRIPTION | CHANGE NEEDED |
|--------------------------------|--------------------------------------|---|
| Section 1, P. 2, Table 1-1 | Planning Team Members | Correction of Names & Titles |
| Section 1, P. 7, Table 1-4 | Planning Documents | Corrections and additions |
| Section 2, P 9, Table 2-1 | Participating Jurisdictions | Corrections of Names |
| Section 5, P. 125, Table 5-1 | NFIP Participation | Correct to include Brooklyn |
| Section 5, P. 132, Table 5-4 | Completed/Current Mitigation Actions | Editing of entries in table and add a stress on the importance of Public Education and promotion of the National Flood Insurance Program. |

Following discussion Dr. Remo reviewed and explained the plan approval process. Plan will be submitted to IEMA and subsequently to FEMA for preliminary approval. Following that the plan will be presented to the Clinton County Board for consideration and adoption. Once the plan is adopted by the County Board it will be presented to each participating jurisdiction for adoption.

Meeting was adjourned.

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY
MULTI-HAZARD MITIGATION PLAN COMMITTEE MEETING
APRIL 15, 2010 10:00 am
ST. CLAIR COUNTY EMERGENCY OPERATIONS CENTER 110 W. WASHINGTON ST. BELLEVILLE, IL

ATTENDEES

| NAME | TITLE | REPRESENTING |
|----------------|-------------------------|-----------------------|
| Lisa Garris | Village Clerk | Village of St. Libory |
| Mike Arnold | Chief of Police | Village of Swansea |
| PARKE SMITH | City Administrator | City of Lebanon |
| Eugene Korman | ESDA Coordinator | Village of Freeburg |
| Tom Pratten | Chief of Police | Village of Marissa |
| RANDALL LAY | SAC | FAIRVIEW / SCC |
| RAY KLEIN | MAYOR | SMITHTON |
| ISAAC TURNER | Fire Chief | Alorton |
| CRAIG STAFFORD | Sgt. Admin Assistant | BELLEVILLE |
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St. Clair County Multi-Hazard Mitigation Plan

Meeting Name ST. CLAIR COUNTY MHMP Date 4-15-10

Sign In Sheet

| Name | Email | Cell Phone/phone | Organization |
|-------------------|-------------------------|----------------------------|----------------------|
| TRUSTEE | | 618-808-0333 | VILLAGE OF |
| DAVID E. WILLIAMS | DAVIDEARLW3@YAHOO.COM | 476/514 / 799-1629 cell | SUMMERFIELD |
| Weldon D Harbey | m.lsta@mcjork@htc.net | | Village of Millstadt |
| AL KEUSS | engineering@shiloh.org | 632-1022 | VILLAGE OF SHILOH |
| PATRICK DELANEY | SAUGETPOLICE1@YAHOO.COM | 618 410-4146 | VILLAGE OF SAUGET |
| SCOTT PENNY | SEPPENNY@AOC.CO | 618 274-4504 | FAIRMONT CITY |
| RATH WELLMER | | 314-799-8056 | Brooklyn |
| Al McCarthy | | (618) 274-9201 | Brooklyn |
| NATHANIEL BARNOW | | 618-271-8424 | BROOKLYN |
| BOB ALLEN | | 618-973-8579 | FAIRMONT CITY |
| BOB BEUSA | | 618-274-4504 | FAIRMONT CITY |
| DON FEHNER | | 618-825-2695 | St. Clair Co. |

Mitigation Surveys

St. Clair County Multi-Hazard Mitigation Plan

| | | |
|----------------------------|-------------------------------|---------------------------------------|
| COUNTY: St. Clair | SURVEY RESPONDER: Randall Lay | TITLE: Capt - Fayetteville Fire Dept. |
| MUNICIPALITY: FAYETTEVILLE | | |

| | MITIGATION MEASURE | Our community needs this mitigation measure | We have (or have initiated) this | Does not apply to our community <input checked="" type="checkbox"/> | COMMENTS |
|----|---|---|----------------------------------|---|---|
| 1 | Public Education/Awareness | X | | | |
| 2 | Mutual Aid Agreements | | X | | |
| 3 | Back up Generators | X | | | |
| 4 | Enhanced Communications Systems (Specific) | | X | | Emergency responders have trunked 800 system (STA |
| 5 | NOAA Weather Radio | X | | | |
| 6 | Emergency Alert Systems/Sirens | | X | | |
| 7 | Animal Protection / Rescue | X | | | |
| 8 | Family Disaster Plans & Kits | X | | | |
| 9 | Land Acquisition/Relocation/Structure Elev | X | | | |
| 11 | Stormwater Mgmt. Ordinance or Amendme | | X | | |
| 12 | Floodplain Ordinance or Amendments | | X | | |
| 13 | Storm Drainage Systems/Maintenance | | X | | |
| 14 | Dam and/or Levee Maintenance | | | X | |
| 17 | Early Warning Systems | X | | | |
| 18 | Construction Standards/Techniques | | X | | |
| 19 | Safe Rooms/Shelters | X | | | |
| 20 | Anchoring of Manuf. Homes & Exterior Att | | X | | |
| 21 | Burying Power Lines | X | | | |
| 22 | Backup Power resources for critical facilitie | | X | | |
| 23 | Tree Management/Trimming | | X | | |
| 25 | Outreach/Public Awareness | X | | | |
| 26 | Burying Power Lines | X | | | |
| 27 | Heating and Cooling Centers / Shelters | | X | | |
| 28 | Code Enforcement/Bldg. Maintenance to | | | X | |
| 29 | Repair/Replace Structural Systems | X | | | |
| 30 | Animal Protection | X | | | |
| 31 | Snow Removal Equipment | | X | | |
| 32 | Mapping | | X | | Maping through County GIS |
| 33 | School Survey Procedures | | | X | |
| 34 | Capital Improvement Planning | | X | | |
| 35 | Bldg. Codes / Model Ordinances | | X | | |
| 36 | Infrastructure Hardening / Bridge Strength | X | | | |
| 35 | Outreach/Public Awareness | X | | | |
| 36 | Safety Procedures/Policies/Emergency Plan | | X | | |
| 37 | Local Emergency Planning Committee | | X | | County |
| 38 | Risk Management Plan | X | | | |
| 39 | Industrial Site Buffering | | | X | |
| 40 | Emergency Response/Search & Rescue | | X | | |
| 41 | Haz-Mat spill Removal & Disposal Procedur | | X | | |
| 42 | Other (Specify) | | | X | |

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN MITIGATION MEASURES SURVEY

| COUNTY: St. Clair | | SURVEY RESPONDER: <i>BILL BEARIS</i> | | TITLE: <i>VILLAGE TRUSTEE</i> | |
|--|-----------------|---|---|--|-------------------------------------|
| MUNICIPALITY: <i>CASEVILLE</i> | | Our community needs this mitigation measure <input checked="" type="checkbox"/> | We have (or have initiated) this mitigation measure <input checked="" type="checkbox"/> | Does not apply to our community <input type="checkbox"/> | COMMENTS |
| MITIGATION MEASURE | | | | | |
| A L L H A Z A R D S | 1 | Public Education/Awareness | <input checked="" type="checkbox"/> | | |
| | 2 | Mutual Aid Agreements | | <input checked="" type="checkbox"/> | |
| | 3 | Back up Generators | | <input checked="" type="checkbox"/> | |
| | 4 | Enhanced Communications Systems (Specify) | <input checked="" type="checkbox"/> | | |
| | 5 | NOAA Weather Radio | | <input checked="" type="checkbox"/> | |
| | 6 | Emergency Alert Systems/Sirens | | <input checked="" type="checkbox"/> | |
| | 7 | Animal Protection / Rescue | | <input checked="" type="checkbox"/> | |
| | 8 | Family Disaster Plans & Kits | <input checked="" type="checkbox"/> | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | <input checked="" type="checkbox"/> | | |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | | <input checked="" type="checkbox"/> | |
| | 12 | Floodplain Ordinance or Amendments | | <input checked="" type="checkbox"/> | |
| | 13 | Storm Drainage Systems/Maintenance | <input checked="" type="checkbox"/> | | |
| | 14 | Dam and/or Levee Maintenance | <input checked="" type="checkbox"/> | | |
| T O R N A D O | 17 | Early Warning Systems | | <input checked="" type="checkbox"/> | |
| | 18 | Construction Standards/Techniques | | <input checked="" type="checkbox"/> | |
| | 19 | Safe Rooms/Shelters | <input checked="" type="checkbox"/> | | |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | | <input checked="" type="checkbox"/> | |
| | 21 | Burying Power Lines | <input checked="" type="checkbox"/> | | |
| | 22 | Backup Power resources for critical facilities | | <input checked="" type="checkbox"/> | |
| | 23 | Tree Management/Trimming | <input checked="" type="checkbox"/> | | |
| E X T R E M E W E A T H E R | 25 | Outreach/Public Awareness | <input checked="" type="checkbox"/> | | |
| | 26 | Burying Power Lines | <input checked="" type="checkbox"/> | | |
| | 27 | Heating and Cooling Centers / Shelters | | <input checked="" type="checkbox"/> | |
| | 28 | Load or Ice-dam Issues | | | <input checked="" type="checkbox"/> |
| | 29 | Repair/Replace Structural Systems | <input checked="" type="checkbox"/> | | |
| | 30 | Animal Protection | | <input checked="" type="checkbox"/> | |
| E A R T H Q U A K E | 31 | Snow Removal Equipment | | <input checked="" type="checkbox"/> | |
| | 32 | Mapping | <input checked="" type="checkbox"/> | | |
| | 33 | School Survey Procedures | | | <input checked="" type="checkbox"/> |
| | 34 | Capital Improvement Planning | <input checked="" type="checkbox"/> | | |
| | 35 | Bldg. Codes / Model Ordinances | | <input checked="" type="checkbox"/> | |
| | 36 | Infrastructure Hardening / Bridge Strengthening | <input checked="" type="checkbox"/> | | |
| N A T U R E | 35 | Outreach/Public Awareness | <input checked="" type="checkbox"/> | | |
| | 36 | Safety Procedures/Policies/Emergency Plan | | <input checked="" type="checkbox"/> | |
| | 37 | Local Emergency Planning Committee | | <input checked="" type="checkbox"/> | |
| | 38 | Risk Management Plan | <input checked="" type="checkbox"/> | | |
| | 39 | Industrial Site Buffering | <input checked="" type="checkbox"/> | | |
| | 40 | Emergency Response/Search & Rescue | | <input checked="" type="checkbox"/> | |
| | 41 | Haz-Mat spill Removal & Disposal Procedures | | <input checked="" type="checkbox"/> | |
| 42 | Other (Specify) | | | | |

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN MITIGATION MEASURES SURVEY

| COUNTY: ST. CLAIR COUNTY | | SURVEY RESPONDER: | | | TITLE: |
|--|--|---|---|---|---------|
| MUNICIPALITY: Dupon | | Our community needs this mitigation measure <input checked="" type="checkbox"/> | We have (or have initiated) this mitigation measure <input checked="" type="checkbox"/> | Does not apply to our community <input checked="" type="checkbox"/> | COMMENT |
| MITIGATION MEASURE | | | | | |
| A L L H A Z A R D S | 1 | Public Education/Awareness | | | |
| | 2 | Mutual Aid Agreements | | | |
| | 3 | Back up Generators | | | |
| | 4 | Enhanced Communications Systems (Specify) | | | |
| | 5 | NOAA Weather Radio | | | |
| | 6 | Emergency Alert Systems/Sirens | | | |
| | 7 | Animal Protection / Rescue | | | |
| | 8 | Family Disaster Plans & Kits | | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | | | |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | | | |
| | 12 | Floodplain Ordinance or Amendments | | | |
| | 13 | Storm Drainage Systems/Maintenance | | | |
| | 14 | Dam and/or Levee Maintenance | | | |
| T O R N A D O | 17 | Early Warning Systems | | | |
| | 18 | Construction Standards/Techniques | | | |
| | 19 | Safe Rooms/Shelters | | | |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | | | |
| | 21 | Burying Power Lines | | | |
| | 22 | Backup Power resources for critical facilities | | | |
| E X T R E M E W E A T H E R | 23 | Tree Management/Trimming | | | |
| | 25 | Outreach/Public Awareness | | | |
| | 26 | Burying Power Lines | | | |
| | 27 | Heating and Cooling Centers / Shelters | | | |
| | 28 | load or ice-dam issues | | | |
| | 29 | Repair/Replace Structural Systems | | | |
| | 30 | Animal Protection | | | |
| | 31 | Snow Removal Equipment | | | |
| | E A R T H Q U A K E | 32 | Mapping | | |
| 33 | | School Survey Procedures | | | |
| 34 | | Capital Improvement Planning | | | |
| 35 | | Bldg. Codes / Model Ordinances | | | |
| 36 | | Infrastructure Hardening / Bridge Strengthening | | | |
| 35 | | Outreach/Public Awareness | | | |
| H A Z A R D S S P I L L | 36 | Safety Procedures/Policies/Emergency Plan | | | |
| | 37 | Local Emergency Planning Committee | | | |
| | 38 | Risk Management Plan | | | |
| | 39 | Industrial Site Buffering | | | |
| | 40 | Emergency Response/Search & Rescue | | | |
| | 41 | Haz-Mat spill Removal & Disposal Procedures | | | |

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN MITIGATION MEASURES SURVEY

| COUNTY: St. Clair | | SURVEY RESPONDER: Alan Keuss | | | TITLE: Staff Engineer |
|--|----|---|---|---|-----------------------|
| MUNICIPALITY: Shiloh | | Our community needs this mitigation measure <input checked="" type="checkbox"/> | We have (or have initiated) this mitigation measure <input checked="" type="checkbox"/> | Does not apply to our community <input checked="" type="checkbox"/> | COMMENTS |
| MITIGATION MEASURE | | | | | |
| A L L H A Z A R D S | 1 | Public Education/Awareness | x | | |
| | 2 | Mutual Aid Agreements | | x | |
| | 3 | Back up Generators | | x | |
| | 4 | Enhanced Communications Systems (Specify) | | x | |
| | 5 | NOAA Weather Radio | | x | |
| | 6 | Emergency Alert Systems/Sirens | | x | |
| | 7 | Animal Protection / Rescue | x | | |
| | 8 | Family Disaster Plans & Kits | x | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | | x | |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | | x | |
| | 12 | Floodplain Ordinance or Amendments | | x | |
| | 13 | Storm Drainage Systems/Maintenance | | x | |
| | 14 | Dam and/or Levee Maintenance | | x | |
| | 17 | Early Warning Systems | x | | |
| T O R N A D O | 18 | Construction Standards/Techniques | | x | |
| | 19 | Safe Rooms/Shelters | | x | |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | | x | |
| | 21 | Burying Power Lines | x | | |
| | 22 | Backup Power resources for critical facilities | | x | |
| | 23 | Tree Management/Trimming | x | | |
| I N T E R W E A T H E R | 25 | Outreach/Public Awareness | x | | |
| | 26 | Burying Power Lines | x | | |
| | 27 | Heating and Cooling Centers / Shelters | | x | |
| | 28 | Load or Ice-dam Issues | x | | |
| | 29 | Repair/Replace Structural Systems | x | | |
| | 30 | Animal Protection | x | | |
| | 31 | Snow Removal Equipment | | x | |
| E A R T H Q U A K E | 32 | Mapping | | x | |
| | 33 | School Survey Procedures | x | | |
| | 34 | Capital Improvement Planning | | x | |
| | 35 | Bldg. Codes / Model Ordinances | | x | |
| | 36 | Infrastructure Hardening / Bridge Strengthening | x | | |
| | 35 | Outreach/Public Awareness | x | | |
| H I S T O R Y | 36 | Safety Procedures/Policies/Emergency Plan | | x | |
| | 37 | Local Emergency Planning Committee | x | | |
| | 38 | Risk Management Plan | x | | |
| | 39 | Industrial Site Buffering | | x | |
| | 40 | Emergency Response/Search & Rescue | | x | |
| | 41 | Haz Mat spill Removal & Disposal Procedures | x | | |
| | 42 | Other (Specify) | | | |

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN MITIGATION MEASURES SURVEY

| COUNTY: St. Clair | | SURVEY RESPONDER: Patrick K. Delaney | | | TITLE: Chief of Police |
|---|----|--|--|--|------------------------|
| MUNICIPALITY: Village of Sauget | | Our community needs this mitigation measure <input type="checkbox"/> | We have (or have initiated) this mitigation measure <input type="checkbox"/> | Does not apply to our community <input type="checkbox"/> | COMMENTS |
| MITIGATION MEASURE | | | | | |
| A L L | 1 | Public Education/Awareness | | x | |
| | 2 | Mutual Aid Agreements | | x | |
| | 3 | Back up Generators | | x | |
| H A Z A R D S | 4 | Enhanced Communications Systems (Specify) | | x | 800 Mg radio system |
| | 5 | NOAA Weather Radio | x | | |
| | 6 | Emergency Alert Systems/Sirens | | x | |
| | 7 | Animal Protection / Rescue | x | | |
| | 8 | Family Disaster Plans & Kits | x | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | | x | |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | | x | |
| | 12 | Floodplain Ordinance or Amendments | | x | |
| | 13 | Storm Drainage Systems/Maintenance | | x | |
| | 14 | Dam and/or Levee Maintenance | | x | |
| T O R N A D O | 17 | Early Warning Systems | | x | |
| | 18 | Construction Standards/Techniques | | x | |
| | 19 | Safe Rooms/Shelters | | x | |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | x | | |
| | 21 | Burying Power Lines | x | | |
| E X T R E M E | 22 | Backup Power resources for critical facilities | | x | |
| | 23 | Tree Management/Trimming | | x | |
| | 25 | Outreach/Public Awareness | | x | |
| | 26 | Burying Power Lines | x | | |
| | 27 | Heating and Cooling Centers / Shelters | | x | |
| W E A T H E R | 28 | snow load or ice-dam issues | | x | |
| | 29 | Repair/Replace Structural Systems | x | | |
| | 30 | Animal Protection | x | | |
| | 31 | Snow Removal Equipment | | x | |
| E A R T H Q U A K E | 32 | Mapping | | x | |
| | 33 | School Survey Procedures | | | x |
| | 34 | Capital Improvement Planning | | x | |
| | 35 | Bldg. Codes / Model Ordinances | | x | |
| | 36 | Infrastructure Hardening / Bridge Strengthening | x | | |
| | 35 | Outreach/Public Awareness | | x | |
| H A Z A R D S P I L L | 36 | Safety Procedures/Policies/Emergency Plan | | x | |
| | 37 | Local Emergency Planning Committee | | x | |
| | 38 | Risk Management Plan | | x | |
| | 39 | Industrial Site Buffering | | x | |
| | 40 | Emergency Response/Search & Rescue | | x | |
| | 41 | Haz-Mat spill Removal & Disposal Procedures | | x | |
| | 42 | Other (Specify) | | | |

St. Clair County Multi-Hazard Mitigation Plan

| COUNTY: St. Clair | | MUNICIPALITY: City of Centreville | | | SURVEY RESPONDER: Rodney Lewis | | | TITLE: City Planner | |
|--|----|---|---|---|--------------------------------|--|--------------------------------------|---|--|
| MITIGATION MEASURE | | Our community needs this mitigation measure <input checked="" type="checkbox"/> | We have (or have initiated) this mitigation measure | Does not apply to our community <input checked="" type="checkbox"/> | COMMENTS | | | | |
| A L L H A Z A R D S | 1 | Public Education/Awareness | X | | | | | | |
| | 2 | Mutual Aid Agreements | | X | | | | MABAS, ILeas and looking into IWARN | |
| | 3 | Back up Generators | X | | | | | | |
| | 4 | Enhanced Communications Systems (Specify) | X | | | | | | |
| | 5 | NOAA Weather Radio | X | | | | | | |
| | 6 | Emergency Alert Systems/Sirens | X | | | | | Preparing a plan for siren and public address system. | |
| | 7 | Animal Protection / Rescue | X | | | | | | |
| | 8 | Family Disaster Plans & Kits | X | | | | | Preparing to offer free CPR/AED and First to the public with kits. | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | | X | | | | City has invested over \$40,000.00 in the last two year for Land. | |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | | X | | | | | |
| | 12 | Floodplain Ordinance or Amendments | X | | | | | | |
| | 13 | Storm Drainage Systems/Maintenance | | X | | | | In 2010 we will begin mapping the entire storm system for the city. | |
| | 14 | Dam and/or Levee Maintenance | | | X | | | | |
| | 17 | Early Warning Systems | X | | | | | Sirens and Public address system. | |
| T O R N A D O | 18 | Construction Standards/Techniques | | X | | | | | |
| | 19 | Safe Rooms/Shelters | X | | | | | City hall and a local community center are sites, working on other agree | |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | | X | | | | | |
| | 21 | Burying Power Lines | X | | | | | | |
| | 22 | Backup Power resources for critical facilities | X | | | | | | |
| | 23 | Tree Management/Trimming | | X | | | | | |
| E X T R E M E W E A T H E R | 25 | Outreach/Public Awareness | | X | | | | | |
| | 26 | Burying Power Lines | X | | | | | | |
| | 27 | Heating and Cooling Centers / Shelters | | X | | | | | |
| | 28 | snow load or ice-dam issues | X | | | | | | |
| | 29 | Repair/Replace Structural Systems | | X | | | | | |
| | 30 | Animal Protection | X | | | | | | |
| E A R T H Q U A K E | 31 | Snow Removal Equipment | | X | | | | | |
| | 32 | Mapping | | X | | | | Invested heavily into GIS and GPS over \$30,000.00 in the last two years. | |
| | 33 | School Survey Procedures | | X | | | | Hosted Threat and Risk Assessment training funded by DHS. | |
| | 34 | Capital Improvement Planning | | X | | | | Using local GIS assets, IDOT/NavTeq, East-West Gateway GIS data. | |
| | 35 | Bldg. Codes / Model Ordinances | | X | | | | | |
| | 36 | Infrastructure Hardening / Bridge Strengthening | X | | | | | | |
| H a z M a t S P I L L | 35 | Outreach/Public Awareness | | X | | | | Periodic newsletter are published. Soon to launch redesigned website. | |
| | 36 | Safety Procedures/Policies/Emergency Plan | | X | | | | Currently reviewing EOP of large occupancy buildings in the city. | |
| | 37 | Local Emergency Planning Committee | X | | | | | No formal meeting, but there is a email list for notices and emergency in | |
| | 38 | Risk Management Plan | | X | | | | Under review | |
| | 39 | Industrial Site Buffering | X | | | | | | |
| | 40 | Emergency Response/Search & Rescue | X | | | | | Currently relying on the county team | |
| | 41 | Haz-Mat spill Removal & Disposal Procedures | X | | | | Currently relying on the county team | | |
| | 42 | Other (Specify) | | | | | | | |

St. Clair County Multi-Hazard Mitigation Plan

| COUNTY: St. Clair | | SURVEY RESPONDER: Eugene Kramer | | | TITLE: ESDA Coordinator |
|--|---|---|---|---|--|
| MUNICIPALITY: Freeburg | | Our community needs this mitigation measure <input checked="" type="checkbox"/> | We have (or have initiated) this mitigation measure | Does not apply to our community <input checked="" type="checkbox"/> | COMMENTS |
| MITIGATION MEASURE | | | | | |
| A L L H A Z A R D S | 1 | Public Education/Awareness | | X | |
| | 2 | Mutual Aid Agreements | | x | |
| | 3 | Back up Generators | | x | |
| | 4 | Enhanced Communications Systems (Specify) | x | x | Need to replace VHF Radio system to narrowband VHF system/Use ARES |
| | 5 | NOAA Weather Radio | x | x | Community expanded and need more sirens to cover. |
| | 6 | Emergency Alert Systems/Sirens | X | x | Community expanded, need more to cover area. |
| | 7 | Animal Protection / Rescue | | X | |
| | 8 | Family Disaster Plans & Kits | | X | Sent flyers to ALL in Village |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | | | x |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | | | x |
| | 12 | Floodplain Ordinance or Amendments | | | x |
| | 13 | Storm Drainage Systems/Maintenance | | x | |
| | 14 | Dam and/or Levee Maintenance | | | x |
| T O R N A D O | 17 | Early Warning Systems | | | x |
| | 18 | Construction Standards/Techniques | | x | |
| | 19 | Safe Rooms/Shelters | x | x | We have community storm shelters , but need more |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | x | | |
| | 21 | Burying Power Lines | | x | |
| E X T R E M E W E A T H E R | 22 | Backup Power resources for critical facilities | | x | |
| | 23 | Tree Management/Trimming | | x | |
| | 25 | Outreach/Public Awareness | | x | CTY telephone notification system |
| | 26 | Burying Power Lines | | x | |
| | 27 | Heating and Cooling Centers / Shelters | | x | |
| | 28 | snow load or ice-dam issues | | | x |
| E A R T H Q U A K E | 29 | Repair/Replace Structural Systems | | x | |
| | 30 | Animal Protection | x | | |
| | 31 | Snow Removal Equipment | | x | |
| | 32 | Mapping | x | | |
| | 33 | School Survey Procedures | | x | |
| | 34 | Capital Improvement Planning | | x | |
| | 35 | Bldg. Codes / Model Ordinances | | x | |
| H A Z M A T S P I L L | 36 | Infrastructure Hardening / Bridge Strengthening | | | x |
| | 35 | Outreach/Public Awareness | | x | |
| | 36 | Safety Procedures/Policies/Emergency Plan | | x | Local ESDA/EMA EOP |
| | 37 | Local Emergency Planning Committee | | x | Yearly review of local EOP |
| | 38 | Risk Management Plan | | x | local Fire Department handles |
| | 39 | Industrial Site Buffering | | | x |
| | 40 | Emergency Response/Search & Rescue | | | |
| 41 | Haz-Mat spill Removal & Disposal Procedures | | x | local Fire Department handles this operation | |
| 42 | Other (Specify) | | | | |

St. Clair County Multi-Hazard Mitigation Plan

| COUNTY: ST. CLAIR COUNTY | | MUNICIPALITY: East St. Louis | | | SURVEY RESPONDER: | | | TITLE: |
|--|---|---|---|---|-------------------|--|--|--------|
| MITIGATION MEASURE | | Our community needs this mitigation measure <input checked="" type="checkbox"/> | We have (or have initiated) this mitigation measure <input checked="" type="checkbox"/> | Does not apply to our community <input checked="" type="checkbox"/> | COMMENT | | | |
| A L L H A Z A R D S | 1 | Public Education/Awareness | | | | | | |
| | 2 | Mutual Aid Agreements | | | | | | |
| | 3 | Back up Generators | | | | | | |
| | 4 | Enhanced Communications Systems (Specify) | | | | | | |
| | 5 | NOAA Weather Radio | | | | | | |
| | 6 | Emergency Alert Systems/Sirens | | | | | | |
| | 7 | Animal Protection / Rescue | | | | | | |
| | 8 | Family Disaster Plans & Kits | | | | | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | | | | | | |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | | | | | | |
| | 12 | Floodplain Ordinance or Amendments | | | | | | |
| | 13 | Storm Drainage Systems/Maintenance | | | | | | |
| | 14 | Dam and/or Levee Maintenance | | | | | | |
| T O R N A D O | 17 | Early Warning Systems | | | | | | |
| | 18 | Construction Standards/Techniques | | | | | | |
| | 19 | Safe Rooms/Shelters | | | | | | |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | | | | | | |
| | 21 | Burying Power Lines | | | | | | |
| E X T R E M E W E A T H E R | 22 | Backup Power resources for critical facilities | | | | | | |
| | 23 | Tree Management/Trimming | | | | | | |
| | 25 | Outreach/Public Awareness | | | | | | |
| | 26 | Burying Power Lines | | | | | | |
| | 27 | Heating and Cooling Centers / Shelters | | | | | | |
| | 28 | load or ice-dam issues | | | | | | |
| E A R T H Q U A K E | 29 | Repair/Replace Structural Systems | | | | | | |
| | 30 | Animal Protection | | | | | | |
| | 31 | Snow Removal Equipment | | | | | | |
| | 32 | Mapping | | | | | | |
| | 33 | School Survey Procedures | | | | | | |
| | 34 | Capital Improvement Planning | | | | | | |
| H A Z A R D S S P I L L | 35 | Bldg. Codes / Model Ordinances | | | | | | |
| | 36 | Infrastructure Hardening / Bridge Strengthening | | | | | | |
| | 35 | Outreach/Public Awareness | | | | | | |
| | 36 | Safety Procedures/Policies/Emergency Plan | | | | | | |
| | 37 | Local Emergency Planning Committee | | | | | | |
| | 38 | Risk Management Plan | | | | | | |
| | 39 | Industrial Site Buffering | | | | | | |
| | 40 | Emergency Response/Search & Rescue | | | | | | |
| 41 | Haz-Mat spill Removal & Disposal Procedures | | | | | | | |
| 42 | Other (Specify) | | | | | | | |

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN MITIGATION MEASURES SURVEY

| COUNTY: <u>St. Clair</u> | | SURVEY RESPONDER: <u>J. SAAC Turner</u> | | | TITLE: <u>Fire Chief</u> |
|--|---|---|---|--|--------------------------|
| MUNICIPALITY: <u>Alexton</u> | | Our community needs this mitigation measure <input checked="" type="checkbox"/> | We have (or have initiated) this mitigation measure <input checked="" type="checkbox"/> | Does not apply to our community <input type="checkbox"/> | COMMENTS |
| MITIGATION MEASURE | | | | | |
| A L L H A Z A R D S | 1 Public Education/Awareness | <input checked="" type="checkbox"/> | | | |
| | 2 Mutual Aid Agreements | | <input checked="" type="checkbox"/> | | |
| | 3 Back up Generators | | <input checked="" type="checkbox"/> | | |
| | 4 Enhanced Communications Systems (Specify) | <input checked="" type="checkbox"/> | | | |
| | 5 NOAA Weather Radio | <input checked="" type="checkbox"/> | | | |
| | 6 Emergency Alert Systems/Sirens | <input checked="" type="checkbox"/> | | | |
| | 7 Animal Protection / Rescue | <input checked="" type="checkbox"/> | | | |
| | 8 Family Disaster Plans & Kits | <input checked="" type="checkbox"/> | | | |
| F L O O D S | 9 Land Acquisition/Relocation/Structure Elevation | <input checked="" type="checkbox"/> | | | |
| | 11 Stormwater Mgmt. Ordinance or Amendments | <input checked="" type="checkbox"/> | | | |
| | 12 Floodplain Ordinance or Amendments | <input checked="" type="checkbox"/> | | | |
| | 13 Storm Drainage Systems/Maintenance | <input checked="" type="checkbox"/> | | | |
| | 14 Dam and/or Levee Maintenance | <input checked="" type="checkbox"/> | | | |
| 17 Early Warning Systems | <input checked="" type="checkbox"/> | | | | |
| T O R N A D O | 18 Construction Standards/Techniques | <input checked="" type="checkbox"/> | | | |
| | 19 Safe Rooms/Shelters | <input checked="" type="checkbox"/> | | | |
| | 20 Anchoring of Manuf. Homes & Exterior Attachments | <input checked="" type="checkbox"/> | | | |
| | 21 Burying Power Lines | <input checked="" type="checkbox"/> | | | |
| | 22 Backup Power resources for critical facilities | <input checked="" type="checkbox"/> | | | |
| 23 Tree Management/Trimming | <input checked="" type="checkbox"/> | | | | |
| E X T R E M E W E A T H E R | 25 Outreach/Public Awareness | <input checked="" type="checkbox"/> | | | |
| | 26 Burying Power Lines | <input checked="" type="checkbox"/> | | | |
| | 27 Heating and Cooling Centers / Shelters | | <input checked="" type="checkbox"/> | | |
| | 28 Load or ice-dam issues | <input checked="" type="checkbox"/> | | | |
| | 29 Repair/Replace Structural Systems | <input checked="" type="checkbox"/> | | | |
| | 30 Animal Protection | <input checked="" type="checkbox"/> | | | |
| E A R T H Q U A K E | 31 Snow Removal Equipment | | <input checked="" type="checkbox"/> | | |
| | 32 Mapping | | <input checked="" type="checkbox"/> | | |
| | 33 School Survey Procedures | <input checked="" type="checkbox"/> | | | |
| | 34 Capital Improvement Planning | <input checked="" type="checkbox"/> | | | |
| | 35 Bldg. Codes / Model Ordinances | <input checked="" type="checkbox"/> | | | |
| H A Z A R D S P I L L | 36 Infrastructure Hardening / Bridge Strengthening | <input checked="" type="checkbox"/> | | | |
| | 35 Outreach/Public Awareness | <input checked="" type="checkbox"/> | | | |
| | 36 Safety Procedures/Policies/Emergency Plan | <input checked="" type="checkbox"/> | | | |
| | 37 Local Emergency Planning Committee | <input checked="" type="checkbox"/> | | | |
| | 38 Risk Management Plan | <input checked="" type="checkbox"/> | | | |
| | 39 Industrial Site Buffering | <input checked="" type="checkbox"/> | | | |
| | 40 Emergency Response/Search & Rescue | <input checked="" type="checkbox"/> | | | |
| 41 Haz-Mat spill Removal & Disposal Procedures | <input checked="" type="checkbox"/> | | | | |
| 42 Other (Specify) | <input checked="" type="checkbox"/> | | | | |

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN MITIGATION MEASURES SURVEY

| COUNTY: ST. CLAIR COY | | MUNICIPALITY: VILLAGE OF BROOKLYN | | | SURVEY RESPONDER: | | TITLE: MAYOR NATHANIEL O'BANION | |
|--|---|--|--|--|-------------------|--|---------------------------------|--|
| MITIGATION MEASURE | | Our community needs this mitigation measure <input type="checkbox"/> | We have (or have initiated) this mitigation measure <input type="checkbox"/> | Does not apply to our community <input type="checkbox"/> | COMMENTS | | | |
| A L L H A Z A R D S | 1 | Public Education/Awareness | <input checked="" type="checkbox"/> | | | | | |
| | 2 | Mutual Aid Agreements | <input checked="" type="checkbox"/> | | | | | |
| | 3 | Back up Generators | <input checked="" type="checkbox"/> | | | | | |
| | 4 | Enhanced Communications Systems (Specify) | <input checked="" type="checkbox"/> | | | | | |
| | 5 | NOAA Weather Radio | <input checked="" type="checkbox"/> | | | | | |
| | 6 | Emergency Alert Systems/Sirens | <input checked="" type="checkbox"/> | | | | | |
| | 7 | Animal Protection / Rescue | <input checked="" type="checkbox"/> | | | | | |
| | 8 | Family Disaster Plans & Kits | <input checked="" type="checkbox"/> | | | | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | <input checked="" type="checkbox"/> | | | | | |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | <input checked="" type="checkbox"/> | | | | | |
| | 12 | Floodplain Ordinance or Amendments | <input checked="" type="checkbox"/> | | | | | |
| | 13 | Storm Drainage Systems/Maintenance | <input checked="" type="checkbox"/> | | | | | |
| | 14 | Dam and/or Levee Maintenance | <input checked="" type="checkbox"/> | | | | | |
| T O R N A D O | 17 | Early Warning Systems | <input checked="" type="checkbox"/> | | | | | |
| | 18 | Construction Standards/Techniques | <input checked="" type="checkbox"/> | | | | | |
| | 19 | Safe Rooms/Shelters | <input checked="" type="checkbox"/> | | | | | |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | <input checked="" type="checkbox"/> | | | | | |
| | 21 | Burying Power Lines | <input checked="" type="checkbox"/> | | | | | |
| | 22 | Backup Power resources for critical facilities | <input checked="" type="checkbox"/> | | | | | |
| E X T R E M E W E A T H E R | 23 | Tree Management/Trimming | <input checked="" type="checkbox"/> | | | | | |
| | 25 | Outreach/Public Awareness | <input checked="" type="checkbox"/> | | | | | |
| | 26 | Burying Power Lines | <input checked="" type="checkbox"/> | | | | | |
| | 27 | Heating and Cooling Centers / Shelters | <input checked="" type="checkbox"/> | | | | | |
| | 28 | load or ice-dam issues | <input checked="" type="checkbox"/> | | | | | |
| | 29 | Repair/Replace Structural Systems | <input checked="" type="checkbox"/> | | | | | |
| | 30 | Animal Protection | <input checked="" type="checkbox"/> | | | | | |
| E A R T H Q U A K E | 31 | Snow Removal Equipment | <input checked="" type="checkbox"/> | | | | | |
| | 32 | Mapping | <input checked="" type="checkbox"/> | | | | | |
| | 33 | School Survey Procedures | <input checked="" type="checkbox"/> | | | | | |
| | 34 | Capital Improvement Planning | <input checked="" type="checkbox"/> | | | | | |
| | 35 | Bldg. Codes / Model Ordinances | <input checked="" type="checkbox"/> | | | | | |
| H A Z A R D S | 36 | Infrastructure Hardening / Bridge Strengthening | <input checked="" type="checkbox"/> | | | | | |
| | 35 | Outreach/Public Awareness | <input checked="" type="checkbox"/> | | | | | |
| | 36 | Safety Procedures/Policies/Emergency Plan | <input checked="" type="checkbox"/> | | | | | |
| | 37 | Local Emergency Planning Committee | <input checked="" type="checkbox"/> | | | | | |
| | 38 | Risk Management Plan | <input checked="" type="checkbox"/> | | | | | |
| | 39 | Industrial Site Buffering | <input checked="" type="checkbox"/> | | | | | |
| | 40 | Emergency Response/Search & Rescue | <input checked="" type="checkbox"/> | | | | | |
| 41 | Haz-Mat spill Removal & Disposal Procedures | <input checked="" type="checkbox"/> | | | | | | |
| 42 | Other (Specify) | <input checked="" type="checkbox"/> | | | | | | |

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN MITIGATION MEASURES SURVEY

| COUNTY: <u>ST. CLAIR</u> | | MUNICIPALITY: <u>FAIRMONT CITY</u> | | SURVEY RESPONDER: <u>SCOTT PENNY</u> | | TITLE: <u>POLICE CHIEF</u> | |
|--|-----------------|--|--|--|-------------------------------------|----------------------------|--------------------------------|
| MITIGATION MEASURE | | Our community needs this mitigation measure <input type="checkbox"/> | We have (or have initiated) this mitigation measure <input type="checkbox"/> | Does not apply to our community <input type="checkbox"/> | COMMENTS | | |
| A L L H A Z A R D S | 1 | Public Education/Awareness | | <input checked="" type="checkbox"/> | | | |
| | 2 | Mutual Aid Agreements | | <input checked="" type="checkbox"/> | | | |
| | 3 | Back up Generators | | | | | |
| | 4 | Enhanced Communications Systems (Specify) | <input checked="" type="checkbox"/> | | | | <u>MORE STAR COM PORTABLES</u> |
| | 5 | NOAA Weather Radio | <input checked="" type="checkbox"/> | | | | |
| | 6 | Emergency Alert Systems/Sirens | <input checked="" type="checkbox"/> | | | | |
| | 7 | Animal Protection / Rescue | <input checked="" type="checkbox"/> | | | | |
| | 8 | Family Disaster Plans & Kits | <input checked="" type="checkbox"/> | | | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | | | <input checked="" type="checkbox"/> | | |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | | <input checked="" type="checkbox"/> | | | |
| | 12 | Floodplain Ordinance or Amendments | | <input checked="" type="checkbox"/> | | | |
| | 13 | Storm Drainage Systems/Maintenance | <input checked="" type="checkbox"/> | | | | |
| | 14 | Dam and/or Levee Maintenance | | <input checked="" type="checkbox"/> | | | |
| T O R N A D O | 17 | Early Warning Systems | <input checked="" type="checkbox"/> | | | | |
| | 18 | Construction Standards/Techniques | <input checked="" type="checkbox"/> | | | | |
| | 19 | Safe Rooms/Shelters | <input checked="" type="checkbox"/> | | | | |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | | <input checked="" type="checkbox"/> | | | |
| | 21 | Burying Power Lines | <input checked="" type="checkbox"/> | | | | |
| | 22 | Backup Power resources for critical facilities | <input checked="" type="checkbox"/> | | | | |
| | 23 | Tree Management/Trimming | <input checked="" type="checkbox"/> | | | | |
| E X T R E M E W E A T H E R | 25 | Outreach/Public Awareness | <input checked="" type="checkbox"/> | | | | |
| | 26 | Burying Power Lines | <input checked="" type="checkbox"/> | | | | |
| | 27 | Heating and Cooling Centers / Shelters | <input checked="" type="checkbox"/> | | | | |
| | 28 | load or ice-dam Issues | <input checked="" type="checkbox"/> | | | | |
| | 29 | Repair/Replace Structural Systems | | | <input checked="" type="checkbox"/> | | |
| | 30 | Animal Protection | <input checked="" type="checkbox"/> | | | | |
| E A R T H Q U A K E | 31 | Snow Removal Equipment | | <input checked="" type="checkbox"/> | | | |
| | 32 | Mapping | <input checked="" type="checkbox"/> | | | | |
| | 33 | School Survey Procedures | | | <input checked="" type="checkbox"/> | | |
| | 34 | Capital Improvement Planning | <input checked="" type="checkbox"/> | | | | |
| | 35 | Bldg. Codes / Model Ordinances | <input checked="" type="checkbox"/> | | | | |
| | 36 | Infrastructure Hardening / Bridge Strengthening | <input checked="" type="checkbox"/> | | | | |
| H A Z A R D S S P I L L | 35 | Outreach/Public Awareness | <input checked="" type="checkbox"/> | | | | |
| | 36 | Safety Procedures/Policies/Emergency Plan | <input checked="" type="checkbox"/> | | | | |
| | 37 | Local Emergency Planning Committee | <input checked="" type="checkbox"/> | | | | |
| | 38 | Risk Management Plan | <input checked="" type="checkbox"/> | | | | |
| | 39 | Industrial Site Buffering | <input checked="" type="checkbox"/> | | | | |
| | 40 | Emergency Response/Search & Rescue | <input checked="" type="checkbox"/> | | | | |
| | 41 | Haz-Mat spill Removal & Disposal Procedures | <input checked="" type="checkbox"/> | | | | |
| 42 | Other (Specify) | | | <input checked="" type="checkbox"/> | | | |

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN MITIGATION MEASURES SURVEY

| COUNTY: St. Clair | | SURVEY RESPONDER: John (Jay) Torry | | | TITLE: Public Works Director & EMA |
|--|----|---|--|--|------------------------------------|
| MUNICIPALITY: Village of Cahokia | | Our community needs this mitigation measure <input checked="" type="checkbox"/> | We have (or have initiated) this mitigation measure <input type="checkbox"/> | Does not apply to our community <input type="checkbox"/> | COMMENTS |
| MITIGATION MEASURE | | | | | |
| A L L H A Z A R D S | 1 | Public Education/Awareness | X | | |
| | 2 | Mutual Aid Agreements | | X | |
| | 3 | Back up Generators | | X | |
| | 4 | Enhanced Communications Systems (Specify) | | X | |
| | 5 | NOAA Weather Radio | | X | |
| | 6 | Emergency Alert Systems/Sirens | | X | |
| | 7 | Animal Protection / Rescue | X | | |
| | 8 | Family Disaster Plans & Kits | X | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | X | | |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | X | | |
| | 12 | Floodplain Ordinance or Amendments | X | | |
| | 13 | Storm Drainage Systems/Maintenance | | X | |
| | 14 | Dam and/or Levee Maintenance | X | | |
| | 17 | Early Warning Systems | | X | |
| T O R N A D O | 18 | Construction Standards/Techniques | X | | |
| | 19 | Safe Rooms/Shelters | | X | |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | | X | |
| | 21 | Burying Power Lines | X | | |
| | 22 | Backup Power resources for critical facilities | | X | |
| | 23 | Tree Management/Trimming | X | | |
| E X T R E M E W E A T H E R | 25 | Outreach/Public Awareness | X | | |
| | 26 | Burying Power Lines | | X | HAVE THIS IN NEWER SUBDIVISIONS |
| | 27 | Heating and Cooling Centers / Shelters | | X | |
| | 28 | load or Ice-dam issues | X | | |
| | 29 | Repair/Replace Structural Systems | X | | |
| | 30 | Animal Protection | X | | |
| | 31 | Snow Removal Equipment | | X | |
| E A R T H Q U A K E | 32 | Mapping | X | | |
| | 33 | School Survey Procedures | | X | |
| | 34 | Capital Improvement Planning | | X | |
| | 35 | Bldg. Codes / Model Ordinances | | X | |
| | 36 | Infrastructure Hardening / Bridge Strengthening | X | | |
| | 35 | Outreach/Public Awareness | X | | |
| H A Z A R D S | 36 | Safety Procedures/Policies/Emergency Plan | | X | |
| | 37 | Local Emergency Planning Committee | X | | |
| | 38 | Risk Management Plan | X | | |
| | 39 | Industrial Site Buffering | X | | |
| | 40 | Emergency Response/Search & Rescue | | X | |
| | 41 | Haz-Mat spill Removal & Disposal Procedures | X | | |
| | 42 | Other (Specify) | X | | |

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN MITIGATION MEASURES SURVEY

| COUNTY: <u>ST. CLAIR</u> | | SURVEY RESPONDER: <u>PAUL SMITH</u> | | | TITLE: <u>CITY ADMINISTRATOR</u> |
|--|----|--|--|--|-------------------------------------|
| MUNICIPALITY: <u>LEBANON</u> | | Our community needs this mitigation measure <input type="checkbox"/> | We have (or have initiated) this mitigation measure <input type="checkbox"/> | Does not apply to our community <input type="checkbox"/> | COMMENTS |
| MITIGATION MEASURE | | | | | |
| A L L H A Z A R D S | 1 | Public Education/Awareness | | <input checked="" type="checkbox"/> | |
| | 2 | Mutual Aid Agreements | | <input checked="" type="checkbox"/> | |
| | 3 | Back up Generators | | <input checked="" type="checkbox"/> | |
| | 4 | Enhanced Communications Systems (Specify) | | <input checked="" type="checkbox"/> | |
| | 5 | NOAA Weather Radio | <input checked="" type="checkbox"/> | | |
| | 6 | Emergency Alert Systems/Sirens | <input checked="" type="checkbox"/> | | |
| | 7 | Animal Protection / Rescue | <input checked="" type="checkbox"/> | | |
| | 8 | Family Disaster Plans & Kits | <input checked="" type="checkbox"/> | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | | <input checked="" type="checkbox"/> | |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | | <input checked="" type="checkbox"/> | |
| | 12 | Floodplain Ordinance or Amendments | | <input checked="" type="checkbox"/> | |
| | 13 | Storm Drainage Systems/Maintenance | | <input checked="" type="checkbox"/> | |
| | 14 | Dam and/or Levee Maintenance | | | <input checked="" type="checkbox"/> |
| T O R N A D O | 17 | Early Warning Systems | | <input checked="" type="checkbox"/> | |
| | 18 | Construction Standards/Techniques | | <input checked="" type="checkbox"/> | |
| | 19 | Safe Rooms/Shelters | | <input checked="" type="checkbox"/> | |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | | <input checked="" type="checkbox"/> | |
| | 21 | Burying Power Lines | | <input checked="" type="checkbox"/> | |
| E X T R E M E W E A T H E R | 22 | Backup Power resources for critical facilities | | | |
| | 23 | Tree Management/Trimming | | <input checked="" type="checkbox"/> | |
| | 25 | Outreach/Public Awareness | <input checked="" type="checkbox"/> | | |
| | 26 | Burying Power Lines | <input checked="" type="checkbox"/> | | |
| | 27 | Heating and Cooling Centers / Shelters | <input checked="" type="checkbox"/> | | |
| | 28 | load or ice-dam issues | <input checked="" type="checkbox"/> | | |
| E A R T H Q U A K E | 29 | Repair/Replace Structural Systems | | <input checked="" type="checkbox"/> | |
| | 30 | Animal Protection | <input checked="" type="checkbox"/> | | |
| | 31 | Snow Removal Equipment | | <input checked="" type="checkbox"/> | |
| | 32 | Mapping | <input checked="" type="checkbox"/> | | |
| | 33 | School Survey Procedures | <input checked="" type="checkbox"/> | | |
| H A Z A R D S | 34 | Capital Improvement Planning | | <input checked="" type="checkbox"/> | |
| | 35 | Bldg. Codes / Model Ordinances | | <input checked="" type="checkbox"/> | |
| | 36 | Infrastructure Hardening / Bridge Strengthening | <input checked="" type="checkbox"/> | | |
| | 35 | Outreach/Public Awareness | <input checked="" type="checkbox"/> | | |
| | 36 | Safety Procedures/Policies/Emergency Plan | | <input checked="" type="checkbox"/> | |
| | 37 | Local Emergency Planning Committee | | <input checked="" type="checkbox"/> | |
| | 38 | Risk Management Plan | | <input checked="" type="checkbox"/> | |
| S P I L L | 39 | Industrial Site Buffering | <input checked="" type="checkbox"/> | | |
| | 40 | Emergency Response/Search & Rescue | <input checked="" type="checkbox"/> | | |
| | 41 | Haz-Mat spill Removal & Disposal Procedures | <input checked="" type="checkbox"/> | | |
| | 42 | Other (Specify) | <input checked="" type="checkbox"/> | | |

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN MITIGATION MEASURES SURVEY

| COUNTY: <u>St. Clair</u> | | SURVEY RESPONDER: <u>Tom Prather</u> | | | TITLE: <u>Chief of Police</u> | |
|--|--|--|--|--|--|--|
| MUNICIPALITY: <u>Marissa</u> | | Our community needs this mitigation measure <input type="checkbox"/> | We have (or have initiated) this mitigation measure <input type="checkbox"/> | Does not apply to our community <input type="checkbox"/> | COMMENTS | |
| MITIGATION MEASURE | | | | | | |
| A L L H A Z A R D S | 1 | Public Education/Awareness | | | | |
| | 2 | Mutual Aid Agreements | ✓ | | | |
| | 3 | Back up Generators | | ✓ | | |
| | 4 | Enhanced Communications Systems (Specify) | ✓ | | We have some, could use more. 800 MHz | |
| | 5 | NOAA Weather Radio | | ✓ | | |
| | 6 | Emergency Alert Systems/Sirens | | ✓ | | |
| | 7 | Animal Protection / Rescue | ✓ | | | |
| | 8 | Family Disaster Plans & Kits | ✓ | | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | | ✓ | | |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | | ✓ | | |
| | 12 | Floodplain Ordinance or Amendments | | ✓ | | |
| | 13 | Storm Drainage Systems/Maintenance | | ✓ | | |
| | 14 | Dam and/or Levee Maintenance | | ✓ | | |
| | 17 | Early Warning Systems | | ✓ | | |
| T O R N A D O | 18 | Construction Standards/Techniques | | ✓ | | |
| | 19 | Safe Rooms/Shelters | | ✓ | | |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | | ✓ | | |
| | 21 | Burying Power Lines | ✓ | | | |
| | 22 | Backup Power resources for critical facilities | ✓ | | | |
| | 23 | Tree Management/Trimming | ✓ | | | |
| E X T R E M E | 25 | Outreach/Public Awareness | ✓ | | | |
| | 26 | Burying Power Lines | ✓ | | | |
| | 27 | Heating and Cooling Centers / Shelters | ✓ | | | |
| | 28 | load or ice-dam issues | | | ✓ | |
| | 29 | Repair/Replace Structural Systems | ✓ | | | |
| W E A T H E R | 30 | Animal Protection | ✓ | | | |
| | 31 | Snow Removal Equipment | | | | |
| | E A R T H Q U A K E | 32 | Mapping | | ✓ | |
| | | 33 | School Survey Procedures | | ✓ | |
| | | 34 | Capital Improvement Planning | | ✓ | |
| | 35 | Bldg. Codes / Model Ordinances | | ✓ | | |
| | 36 | Infrastructure Hardening / Bridge Strengthening | ✓ | | | |
| | 35 | Outreach/Public Awareness | ✓ | | | |
| H I S T O R I C A L | 36 | Safety Procedures/Policies/Emergency Plan | | ✓ | | |
| | 37 | Local Emergency Planning Committee | ✓ | | | |
| | 38 | Risk Management Plan | | ✓ | | |
| | 39 | Industrial Site Buffering | ✓ | | | |
| | 40 | Emergency Response/Search & Rescue | | ✓ | | |
| | 41 | Haz-Mat spill Removal & Disposal Procedures | | ✓ | | |
| | 42 | Other (Specify) | | | | |

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN MITIGATION MEASURES SURVEY

| COUNTY: <u>ST. CLAIR</u> | | SURVEY RESPONDER: <u>DAVID E. WILLIAMS</u> | | | TITLE: <u>TRUSTEE</u> |
|--|----|--|--|--|-------------------------------------|
| MUNICIPALITY: <u>SUMMERFIELD</u> | | Our community needs this mitigation measure <input type="checkbox"/> | We have (or have initiated) this mitigation measure <input type="checkbox"/> | Does not apply to our community <input type="checkbox"/> | COMMENTS |
| MITIGATION MEASURE | | | | | |
| A L L H A Z A R D S | 1 | Public Education/Awareness | <input checked="" type="checkbox"/> | | |
| | 2 | Mutual Aid Agreements | <input checked="" type="checkbox"/> | | |
| | 3 | Back up Generators | <input checked="" type="checkbox"/> | | |
| | 4 | Enhanced Communications Systems (Specify) | <input checked="" type="checkbox"/> | | |
| | 5 | NOAA Weather Radio | <input checked="" type="checkbox"/> | | |
| | 6 | Emergency Alert Systems/Sirens | | <input checked="" type="checkbox"/> | |
| | 7 | Animal Protection / Rescue | <input checked="" type="checkbox"/> | | |
| | 8 | Family Disaster Plans & Kits | <input checked="" type="checkbox"/> | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | | | |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | <input checked="" type="checkbox"/> | | |
| | 12 | Floodplain Ordinance or Amendments | <input checked="" type="checkbox"/> | | |
| | 13 | Storm Drainage Systems/Maintenance | <input checked="" type="checkbox"/> | | |
| | 14 | Dam and/or Levee Maintenance | | <input checked="" type="checkbox"/> | <input checked="" type="checkbox"/> |
| | 17 | Early Warning Systems | | <input checked="" type="checkbox"/> | |
| T O R N A D O | 18 | Construction Standards/Techniques | <input checked="" type="checkbox"/> | | |
| | 19 | Safe Rooms/Shelters | <input checked="" type="checkbox"/> | | |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | <input checked="" type="checkbox"/> | | |
| | 21 | Burying Power Lines | <input checked="" type="checkbox"/> | | |
| | 22 | Backup Power resources for critical facilities | <input checked="" type="checkbox"/> | | |
| | 23 | Tree Management/Trimming | <input checked="" type="checkbox"/> | | |
| E X T R E M E W E A T H E R | 25 | Outreach/Public Awareness | <input checked="" type="checkbox"/> | | |
| | 26 | Burying Power Lines | <input checked="" type="checkbox"/> | | |
| | 27 | Heating and Cooling Centers / Shelters | <input checked="" type="checkbox"/> | | |
| | 28 | Load or Ice-dam Issues | <input checked="" type="checkbox"/> | | |
| | 29 | Repair/Replace Structural Systems | <input checked="" type="checkbox"/> | | |
| | 30 | Animal Protection | <input checked="" type="checkbox"/> | | |
| | 31 | Snow Removal Equipment | <input checked="" type="checkbox"/> | | |
| | | | | | |
| E A R T H Q U A K E | 32 | Mapping | <input checked="" type="checkbox"/> | | |
| | 33 | School Survey Procedures | <input checked="" type="checkbox"/> | | |
| | 34 | Capital Improvement Planning | <input checked="" type="checkbox"/> | | |
| | 35 | Bldg. Codes / Model Ordinances | <input checked="" type="checkbox"/> | | |
| | 36 | Infrastructure Hardening / Bridge Strengthening | <input checked="" type="checkbox"/> | | |
| | 35 | Outreach/Public Awareness | <input checked="" type="checkbox"/> | | |
| H A Z A R D S S P I L L | 36 | Safety Procedures/Policies/Emergency Plan | <input checked="" type="checkbox"/> | | |
| | 37 | Local Emergency Planning Committee | <input checked="" type="checkbox"/> | | |
| | 38 | Risk Management Plan | <input checked="" type="checkbox"/> | | |
| | 39 | Industrial Site Buffering | <input checked="" type="checkbox"/> | | |
| | 40 | Emergency Response/Search & Rescue | <input checked="" type="checkbox"/> | | |
| | 41 | Haz-Mat spill Removal & Disposal Procedures | <input checked="" type="checkbox"/> | | |
| | 42 | Other (Specify) | | | |

St. Clair County Multi-Hazard Mitigation Plan

| COUNTY: St. Clair | | SURVEY RESPONDER: Jerry Daugherty | | | TITLE: MAYOR |
|---------------------------------|--|---|---|---|--|
| MUNICIPALITY: CITY OF MASCOUTAH | | Our community needs this mitigation measure <input checked="" type="checkbox"/> | We have (or have initiated) this mitigation measure | Does not apply to our community <input checked="" type="checkbox"/> | COMMENTS |
| MITIGATION MEASURE | | | | | |
| 1 | Public Education/Awareness | X | | | |
| 2 | Mutual Aid Agreements | | X | | |
| 3 | Back up Generators | X | | | |
| 4 | Enhanced Communications Systems (Specify) | | X | | |
| 5 | NOAA Weather Radio | | X | | |
| 6 | Emergency Alert Systems/Sirens | X | X | | |
| 7 | Animal Protection / Rescue | X | | | |
| 8 | Family Disaster Plans & Kits | X | | | |
| 9 | Land Acquisition/Relocation/Structure Elevation | | | X | |
| 11 | Stormwater Mgmt. Ordinance or Amendments | | X | | |
| 12 | Floodplain Ordinance or Amendments | | | X | |
| 13 | Storm Drainage Systems/Maintenance | X | | | Limited done by City, more is needed |
| 14 | Dam and/or Levee Maintenance | | | X | |
| 17 | Early Warning Systems | | | X | |
| 18 | Construction Standards/Techniques | X | | | |
| 19 | Safe Rooms/Shelters | X | | | |
| 20 | Anchoring of Manuf. Homes & Exterior Attachments | X | | | |
| 21 | Burying Power Lines | X | | | |
| 22 | Backup Power resources for critical facilities | X | | | |
| 23 | Tree Management/Trimming | X | X | | Somme done by City crews, more is needed |
| 25 | Outreach/Public Awareness | X | | | |
| 26 | Burying Power Lines | X | X | | Being done in new subdivisions |
| 27 | Heating and Cooling Centers / Shelters | X | | | Limited use of current building for shelters. Manning is issue |
| 28 | snow load or ice-dam issues | X | | | |
| 29 | Repair/Replace Structural Systems | X | | | |
| 30 | Animal Protection | X | | | |
| 31 | Snow Removal Equipment | X | X | | Some in place, needs updating |
| 32 | Mapping | X | | | |
| 33 | School Survey Procedures | X | X | | Working with Schools to have plans in place |
| 34 | Capital Improvement Planning | | X | | Some has taken place |
| 35 | Bldg. Codes / Model Ordinances | | X | | State code has been adopted |
| 36 | Infrastructure Hardening / Bridge Strengthening | X | | | |
| 35 | Outreach/Public Awareness | X | | | |
| 36 | Safety Procedures/Policies/Emergency Plan | | X | | POLICE AND FIRE TRAINED |
| 37 | Local Emergency Planning Committee | X | | | |
| 38 | Risk Management Plan | X | | | |
| 39 | Industrial Site Buffering | X | | | |
| 40 | Emergency Response/Search & Rescue | X | | | |
| 41 | Haz-Mat spill Removal & Disposal Procedures | | X | | Fire trained and work with County |
| 42 | Other (Specify) | | | | |

St. Clair County Multi-Hazard Mitigation Plan

| COUNTY: St. Clair | | SURVEY RESPONDER: Chief Brent Saunders | | |
|--------------------|---|---|---|---|
| City of O'Fallon | | Our community needs this mitigation measure <input checked="" type="checkbox"/> | We have (or have initiated) this mitigation measure | Does not apply to our community <input checked="" type="checkbox"/> |
| MITIGATION MEASURE | | | | COMMENTS |
| 1 | Public Education/Awareness | | x | |
| 2 | Mutual Aid Agreements | | x | |
| 3 | Back up Generators | | x | |
| 4 | Enhanced Communications Systems (Specify) | | x | |
| 5 | NOAA Weather Radio | | x | |
| 6 | Emergency Alert Systems/Sirens | | x | |
| 7 | Animal Protection / Rescue | x | | |
| 8 | Family Disaster Plans & Kits | x | | |
| 9 | Land Acquisition/Relocation/Structure Elevation | | x | |
| 11 | Stormwater Mgmt. Ordinance or Amendments | | x | |
| 12 | Floodplain Ordinance or Amendments | | x | |
| 13 | Storm Drainage Systems/Maintenance | | x | |
| 14 | Dam and/or Levee Maintenance | | | x |
| 17 | Early Warning Systems | | x | |
| 18 | Construction Standards/Techniques | | x | |
| 19 | Safe Rooms/Shelters | | x | |
| 20 | Anchoring of Manuf. Homes & Exterior Attachments | x | | |
| 21 | Burying Power Lines | | x | |
| 22 | Backup Power resources for critical facilities | | x | |
| 23 | Tree Management/Trimming | | x | |
| 25 | Outreach/Public Awareness | | x | |
| 26 | Burying Power Lines | x | | |
| 27 | Heating and Cooling Centers / Shelters | | x | |
| 28 | Code enforcement/Bldg. Maintenance to prevent snow load or ice-dam issues | | x | |
| 29 | Repair/Replace Structural Systems | x | | |
| 30 | Animal Protection | x | | |
| 31 | Snow Removal Equipment | | x | |
| 32 | Mapping | | x | |
| 33 | School Survey Procedures | | x | |
| 34 | Capital Improvement Planning | x | | |
| 35 | Bldg. Codes / Model Ordinances | | x | |
| 36 | Infrastructure Hardening / Bridge Strengthening | x | | |
| 35 | Outreach/Public Awareness | | x | |
| 36 | Safety Procedures/Policies/Emergency Plan | | x | |
| 37 | Local Emergency Planning Committee | | x | |
| 38 | Risk Management Plan | | x | |
| 39 | Industrial Site Buffering | | | x |
| 40 | Emergency Response/Search & Rescue | | x | |
| 41 | Haz-Mat spill Removal & Disposal Procedures | | x | |
| 42 | Other (Specify) | | | |

St. Clair County Multi-Hazard Mitigation Plan

| COUNTY: St. Clair | | MUNICIPALITY: St. Libory | | SURVEY RESPONDER: Phyllis Behrman | | TITLE: MAYOR | |
|---|---|---|---|---|--|--------------|--|
| MITIGATION MEASURE | | Our community needs this mitigation measure <input checked="" type="checkbox"/> | We have (or have initiated) this mitigation measure <input checked="" type="checkbox"/> | Does not apply to our community <input checked="" type="checkbox"/> | COMMENTS | | |
| A L L H A Z A R D | 1 | Public Education/Awareness | x | | Our community is a very small community and every hel when something happens in the community | | |
| | 2 | Mutual Aid Agreements | | x | | | |
| | 3 | Back up Generators | x | | | | |
| | 4 | Enhanced Communications Systems (Spe | | x | | | |
| | 5 | NOAA Weather Radio | | x | | | |
| | 6 | Emergenc | | x | | | |
| | 7 | Animal Protection / Rescue | | | x | | |
| | 8 | Family Disaster Plans & Kits | | | x | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure El | | | x | | |
| | 11 | Stormwater Mgmt. Ordinance or Amendr | | x | | | |
| | 12 | Floodplain Ordinance or Amendments | | x | | | |
| | 13 | Storm Drainage Systems/Maintenance | | x | | | |
| | 14 | Dam and/or Levee Maintenance | | | x | | |
| T O R N A D O | 17 | Early Warning Systems | | | x | | |
| | 18 | Construction Standards/Techniques | | | x | | |
| | 19 | Safe Rooms/Shelters | | x | | | |
| | 20 | Anchoring of Manuf. Homes & Exterior At | | | x | | |
| | 21 | Burying Power Lines | | x | | | |
| | 22 | Backup Power resources for critical facilit | | | x | | |
| M E W E A T H E R | 23 | Tree Management/Trimming | | x | | | |
| | 25 | Outreach/Public Awareness | x | | | | |
| | 26 | Burying Power Lines | | | x | | |
| | 27 | Heating and Cooling Centers / Shelters | | x | | | |
| | 28 | Code Enforcement/Bldg. Maintenance to prevent snow load or ice-dam issues | | | | | |
| R T H Q U A K E | 29 | Repair/Replace Structural Systems | | x | | | |
| | 30 | Animal Protection | | | x | | |
| | 31 | Snow Removal Equipment | | x | | | |
| | 32 | Mapping | | x | | | |
| | 33 | School Survey Procedures | | x | | | |
| | 34 | Capital Improvement Planning | x | | | | |
| | 35 | Bldg. Codes / Model Ordinance | | x | | | |
| M a t S P I L L | 36 | Infrastructure Hardening / Bridge Strengt | x | | | | |
| | 35 | Outreach/Public Awareness | x | | | | |
| | 36 | Safety Procedures/Policies/Emergency P | | | x | | |
| | 37 | Local Emergency Planning Committee | | x | | | |
| | 38 | Risk Management Plan | x | | | | |
| | 39 | Industrial Site Buffering | | | x | | |
| | 40 | Emergency Response/Search & Rescue | | x | | | |
| 41 | Haz-Mat spill Removal & Disposal Proced | x | | | | | |
| 42 | Other (Specify) | | | | | | |

St. Clair County Multi-Hazard Mitigation Plan

| COUNTY: St. Clair | | SURVEY RESPONDER: Brian L. Vielweber | | | TITLE: Director, Emergency Services |
|------------------------|--|---|---|---|---|
| MUNICIPALITY: Smithton | | Our community needs this mitigation measure <input checked="" type="checkbox"/> | We have (or have initiated) this mitigation measure | Does not apply to our community <input checked="" type="checkbox"/> | COMMENTS |
| MITIGATION MEASURE | | | | | |
| 1 | Public Education/Awareness | | <input checked="" type="checkbox"/> | | |
| 2 | Mutual Aid Agreements | | <input checked="" type="checkbox"/> | | |
| 3 | Back up Generators | | <input checked="" type="checkbox"/> | | |
| 4 | Enhanced Communications Systems (Specify) | | <input checked="" type="checkbox"/> | | CENCOM/ Local Repeater System / Cellular |
| 5 | NOAA Weather Radio | | <input checked="" type="checkbox"/> | | |
| 6 | Emergency Alert Systems/Sirens | | <input checked="" type="checkbox"/> | | & Telephone notification system |
| 7 | Animal Protection / Rescue | <input checked="" type="checkbox"/> | | | Have policy in place but no facility to house animals |
| 8 | Family Disaster Plans & Kits | | <input checked="" type="checkbox"/> | | |
| 9 | Land Acquisition/Relocation/Structure Elevation | | | <input checked="" type="checkbox"/> | |
| 11 | Stormwater Mgmt. Ordinance or Amendments | | <input checked="" type="checkbox"/> | | |
| 12 | Floodplain Ordinance or Amendments | | <input checked="" type="checkbox"/> | | |
| 13 | Storm Drainage Systems/Maintenance | | <input checked="" type="checkbox"/> | | |
| 14 | Dam and/or Levee Maintenance | | | <input checked="" type="checkbox"/> | |
| 17 | Early Warning Systems | | | <input checked="" type="checkbox"/> | |
| 18 | Construction Standards/Techniques | | <input checked="" type="checkbox"/> | | |
| 19 | Safe Rooms/Shelters | | <input checked="" type="checkbox"/> | | |
| 20 | Anchoring of Manuf. Homes & Exterior Attachments | | <input checked="" type="checkbox"/> | | |
| 21 | Burying Power Lines | | <input checked="" type="checkbox"/> | | All new construction is underground |
| 22 | Backup Power resources for critical facilities | | <input checked="" type="checkbox"/> | | |
| 23 | Tree Management/Trimming | | <input checked="" type="checkbox"/> | | |
| 25 | Outreach/Public Awareness | | <input checked="" type="checkbox"/> | | |
| 26 | Burying Power Lines | | <input checked="" type="checkbox"/> | | |
| 27 | Heating and Cooling Centers / Shelters | | <input checked="" type="checkbox"/> | | |
| 28 | snow load or ice-dam issues | | | <input checked="" type="checkbox"/> | |
| 29 | Repair/Replace Structural Systems | | <input checked="" type="checkbox"/> | | |
| 30 | Animal Protection | <input checked="" type="checkbox"/> | | | |
| 31 | Snow Removal Equipment | | <input checked="" type="checkbox"/> | | |
| 32 | Mapping | | <input checked="" type="checkbox"/> | | |
| 33 | School Survey Procedures | | <input checked="" type="checkbox"/> | | |
| 34 | Capital Improvement Planning | | <input checked="" type="checkbox"/> | | |
| 35 | Bldg. Codes / Model Ordinances | | <input checked="" type="checkbox"/> | | |
| 36 | Infrastructure Hardening / Bridge Strengthening | | <input checked="" type="checkbox"/> | | |
| 35 | Outreach/Public Awareness | | <input checked="" type="checkbox"/> | | |
| 36 | Safety Procedures/Policies/Emergency Plan | | <input checked="" type="checkbox"/> | | |
| 37 | Local Emergency Planning Committee | | <input checked="" type="checkbox"/> | | |
| 38 | Risk Management Plan | | <input checked="" type="checkbox"/> | | |
| 39 | Industrial Site Buffering | | | <input checked="" type="checkbox"/> | |
| 40 | Emergency Response/Search & Rescue | | <input checked="" type="checkbox"/> | | |
| 41 | Haz-Mat spill Removal & Disposal Procedures | | <input checked="" type="checkbox"/> | | |
| 42 | Other (Specify) | | | | |

St. Clair County Multi-Hazard Mitigation Plan

| COUNTY: St. Clair | | MUNICIPALITY: Millstadt | | SURVEY RESPONDER: Weldon Harber | | TITLE: Village of Millstadt Mayor | |
|---|----|---|---|---|----------|--|--|
| MITIGATION MEASURE | | Our community needs this mitigation measure <input checked="" type="checkbox"/> | We have (or have initiated) this mitigation measure <input checked="" type="checkbox"/> | Does not apply to our community <input checked="" type="checkbox"/> | COMMENTS | | |
| A L L H A Z A R D | 1 | Public Education/Awareness | | x | | Need to be more active in public awareness | |
| | 2 | Mutual Aid Agreements | | x | | Fire&Police Dept have agreements with surrounding | |
| | 3 | Back up Generators | x | | | Village has a few, however we need a couple design | |
| | 4 | Enhanced Communications Systems (Spec | | x | | 800 Mhz Radio Systems | |
| | 5 | NOAA Weather Radio | x | | | Needed for hazardous weather conditions | |
| | 6 | Emergency | | x | | | |
| | 7 | Animal Protection / Rescue | x | | | Need to be look into | |
| | 8 | Family Disaster Plans & Kits | x | | | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure El | | | x | | |
| | 11 | Stormwater Mgmt. Ordinance or Amendm | | x | | | |
| | 12 | Floodplain Ordinance or Amendments | | x | | | |
| | 13 | Storm Drainage Systems/Maintenance | | x | | | |
| | 14 | Dam and/or Levee Maintenance | | | x | | |
| T O R N A D O | 17 | Early Warning Systems | | | x | | |
| | 18 | Construction Standards/Techniques | | x | | | |
| | 19 | Safe Rooms/Shelters | | x | | | |
| | 20 | Anchoring of Manuf. Homes & Exterior At | | x | | | |
| | 21 | Burying Power Lines | x | | | | |
| | 22 | Backup Power resources for critical facilit | | x | | Fire and Police have generators | |
| | 23 | Tree Management/Trimming | | x | | Ameren IP is in the process of doing this in Millstad | |
| M E W E A T H E R | 25 | Outreach/Public Awareness | | x | | Need to be more active in public awareness | |
| | 26 | Burying Power Lines | x | | | | |
| | 27 | Heating and Cooling Centers / Shelters | | x | | | |
| | 28 | Code Enforcement/Bldg. Maintenance to prevent snow load or ice-dam issues | | | x | | |
| | 29 | Repair/Replace Structural Systems | | | | | |
| | 30 | Animal Protection | x | | | | |
| R T H Q U A K E | 31 | Snow Removal Equipment | | x | | Millstadt Public Works and outside resources | |
| | 32 | Mapping | | | | | |
| | 33 | School Survey Procedures | | x | | | |
| | 34 | Capital Improvement Planning | | | | | |
| | 35 | Bldg. Codes / Model Ordinances | | | | | |
| | 36 | Infrastructure Hardening / Bridge Strengt | | | | | |
| | 35 | Outreach/Public Awareness | | x | | Need to be more active in public awareness | |
| M a t S P I L L | 36 | Safety Procedures/Policies/Emergency P | | x | | | |
| | 37 | Local Emergency Planning Committee | | x | | | |
| | 38 | Risk Management Plan | | | | | |
| | 39 | Industrial Site Buffering | | | | | |
| | 40 | Emergency Response/Search & Rescue | | x | | Millstadt Fire, Police and St. Clair Co. Special Emerg | |
| | 41 | Haz-Mat spill Removal & Disposal Proced | | x | | St. Clair Co. Special Emergency Services | |
| | 42 | Other (Specify) | | | | | |

St. Clair County Multi-Hazard Mitigation Plan

| COUNTY: St. Clair | | MUNICIPALITY: Village of East Carondelet | | | SURVEY RESPONDER: Jerame Simmons | | TITLE: Asst. Director Public Safety & E-S-D-A | |
|--|-----------------|---|---|---|----------------------------------|--|---|--|
| MITIGATION MEASURE | | Our community needs this mitigation measure <input checked="" type="checkbox"/> | We have (or have initiated) this mitigation measure | Does not apply to our community <input checked="" type="checkbox"/> | COMMENTS | | | |
| A L L H A Z A R D S | 1 | Public Education/Awareness | # | | | | | |
| | 2 | Mutual Aid Agreements | | # | | | | |
| | 3 | Back up Generators | # | | | | | |
| | 4 | Enhanced Communications Systems (Specify) | # | | | | | |
| | 5 | NOAA Weather Radio | | # | | | | |
| | 6 | Emergency Alert Systems/Sirens | # | | | | | |
| | 7 | Animal Protection / Rescue | # | | | | | |
| | 8 | Family Disaster Plans & Kits | # | | | | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | # | | | | | |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | | # | | | | |
| | 12 | Floodplain Ordinance or Amendments | | # | | | | |
| | 13 | Storm Drainage Systems/Maintenance | | # | | | | |
| | 14 | Dam and/or Levee Maintenance | | # | | | | |
| T O R N A D O | 17 | Early Warning Systems | # | | | | | |
| | 18 | Construction Standards/Techniques | # | | | | | |
| | 19 | Safe Rooms/Shelters | # | | | | | |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | | # | | | | |
| | 21 | Burying Power Lines | # | | | | | |
| E X T R E M E W E A T H E R | 22 | Backup Power resources for critical facilities | # | | | | | |
| | 23 | Tree Management/Trimming | | # | | | | |
| | 25 | Outreach/Public Awareness | | # | | | | |
| | 26 | Burying Power Lines | # | | | | | |
| | 27 | Heating and Cooling Centers / Shelters | # | | | | | |
| | 28 | snow load or ice-dam issues | | # | | | | |
| E A R T H Q U A K E | 29 | Repair/Replace Structural Systems | # | | | | | |
| | 30 | Animal Protection | # | | | | | |
| | 31 | Snow Removal Equipment | | # | | | | |
| | 32 | Mapping | # | | | | | |
| | 33 | School Survey Procedures | # | | | | | |
| H a z M a t S P I L L | 34 | Capital Improvement Planning | # | | | | | |
| | 35 | Bldg. Codes / Model Ordinances | | # | | | | |
| | 36 | Infrastructure Hardening / Bridge Strengthening | | # | | | | |
| | 35 | Outreach/Public Awareness | # | | | | | |
| | 36 | Safety Procedures/Policies/Emergency Plan | | # | | | | |
| | 37 | Local Emergency Planning Committee | | # | | | | |
| | 38 | Risk Management Plan | # | | | | | |
| | 39 | Industrial Site Buffering | # | | | | | |
| | 40 | Emergency Response/Search & Rescue | | # | | | | |
| | 41 | Haz-Mat spill Removal & Disposal Procedures | | # | | | | |
| 42 | Other (Specify) | | | | | | | |

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN MITIGATION MEASURES SURVEY

| COUNTY: St. Clair | | MUNICIPALITY: Belleville | | | SURVEY RESPONDER: Jennifer Cain | | | TITLE: Director Health, Housing & Sanitation | | |
|--|-----------------------|--|--|--|---------------------------------|--|--|--|--|--|
| MITIGATION MEASURE | | Our community needs this mitigation measure <input type="checkbox"/> | We have (or have initiated) this mitigation measure <input type="checkbox"/> | Does not apply to our community <input type="checkbox"/> | COMMENTS | | | | | |
| A L L H A Z A R D S | 1 | Public Education/Awareness | ✓ | | | | | | | |
| | 2 | Mutual Aid Agreements | | ✓ | | | | | | |
| | 3 | Back up Generators | ✓ | | | | | | | |
| | 4 | Enhanced Communications Systems (Specify) | ✓ | | | | | | | |
| | 5 | NOAA Weather Radio | | ✓ | | | | | | |
| | 6 | Emergency Alert Systems/Sirens | | ✓ | | | | | | |
| | 7 | Animal Protection / Rescue | | | | | | | | |
| | 8 | Family Disaster Plans & Kits | ✓ | | | | | | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | | | ✓ | | | | | |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | | ✓ | | | | | | |
| | 12 | Floodplain Ordinance or Amendments | | ✓ | | | | | | |
| | 13 | Storm Drainage Systems/Maintenance | | ✓ | | | | | | |
| | 14 | Dam and/or Levee Maintenance | | | ✓ | | | | | |
| 17 | Early Warning Systems | | | | | | | | | |
| T O R N A D O | 18 | Construction Standards/Techniques | | ✓ | | | | | | |
| | 19 | Safe Rooms/Shelters | ✓ | | | | | | | |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | | ✓ | | | | | | |
| | 21 | Burying Power Lines | ✓ | | | | | | | |
| | 22 | Backup Power resources for critical facilities | ✓ | | | | | | | |
| | 23 | Tree Management/Trimming | | ✓ | | | | | | |
| E X T R E M E W E A T H E R | 25 | Outreach/Public Awareness | ✓ | | | | | | | |
| | 26 | Burying Power Lines | ✓ | | | | | | | |
| | 27 | Heating and Cooling Centers / Shelters | ✓ | | | | | | | |
| | 28 | Load or ice-dam issues | | | ✓ | | | | | |
| | 29 | Repair/Replace Structural Systems | ✓ | ✓ | | | | | | |
| L A R G E | 30 | Animal Protection | ✓ | | | | | | | |
| | 31 | Snow Removal Equipment | | ✓ | | | | | | |
| | 32 | Mapping | | ✓ | | | | | | |
| | 33 | School Survey Procedures | ✓ | | | | | | | |
| S M A L L | 34 | Capital Improvement Planning | | ✓ | | | | | | |
| | 35 | Bldg. Codes / Model Ordinances | | ✓ | | | | | | |
| | 36 | Infrastructure Hardening / Bridge Strengthening | ✓ | ✓ | | | | | | |
| | 35 | Outreach/Public Awareness | ✓ | | | | | | | |
| | 36 | Safety Procedures/Policies/Emergency Plan | | ✓ | | | | | | |
| S P E C I A L | 37 | Local Emergency Planning Committee | ✓ | | | | | | | |
| | 38 | Risk Management Plan | ✓ | | | | | | | |
| | 39 | Industrial Site Buffering | ✓ | | | | | | | |
| | 40 | Emergency Response/Search & Rescue | | ✓ | | | | | | |
| | 41 | Haz-Mat spill Removal & Disposal Procedures | | ✓ | | | | | | |
| | 42 | Other (Specify) | | | | | | | | |

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN MITIGATION MEASURES SURVEY

| COUNTY: St. Clair | | SURVEY RESPONDER: Ron Pitts | | | TITLE: ESDA/Public Works/Fire Dept |
|---|-----------------------|--|--|--|------------------------------------|
| MUNICIPALITY: Village of Leetsburg | | Our community needs this mitigation measure <input type="checkbox"/> | We have (or have initiated) this mitigation measure <input type="checkbox"/> | Does not apply to our community <input type="checkbox"/> | COMMENTS |
| MITIGATION MEASURE | | | | | |
| A L L H A Z A R D S | 1 | Public Education/Awareness | | X | |
| | 2 | Mutual Aid Agreements | | X | |
| | 3 | Back up Generators | X | | |
| | 4 | Enhanced Communications Systems (Specify) | X | X | |
| | 5 | NOAA Weather Radio | X | | |
| | 6 | Emergency Alert Systems/Sirens | X | X | |
| | 7 | Animal Protection / Rescue | X | | |
| | 8 | Family Disaster Plans & Kits | X | | |
| F L O O D S | 9 | Land Acquisition/Relocation/Structure Elevation | | X | |
| | 11 | Stormwater Mgmt. Ordinance or Amendments | X | | |
| | 12 | Floodplain Ordinance or Amendments | | X | |
| | 13 | Storm Drainage Systems/Maintenance | | X | |
| | 14 | Dam and/or Levee Maintenance | | X | |
| 17 | Early Warning Systems | | X | | |
| T O R N A D O | 18 | Construction Standards/Techniques | X | | |
| | 19 | Safe Rooms/Shelters | X | | |
| | 20 | Anchoring of Manuf. Homes & Exterior Attachments | | X | |
| | 21 | Burying Power Lines | X | | |
| | 22 | Backup Power resources for critical facilities | X | | |
| | 23 | Tree Management/Trimming | X | | |
| | 25 | Outreach/Public Awareness | | | X |
| W E A T H E R | 26 | Burying Power Lines | | X | |
| | 27 | Heating and Cooling Centers / Shelters | | X | |
| | 28 | Load or ice-dam issues | | X | |
| | 29 | Repair/Replace Structural Systems | | X | |
| | 30 | Animal Protection | X | | |
| | 31 | Snow Removal Equipment | | X | |
| E A R T H Q U A K E | 32 | Mapping | | X | |
| | 33 | School Survey Procedures | | X | |
| | 34 | Capital Improvement Planning | X | | |
| | 35 | Bldg. Codes / Model Ordinances | X | | |
| | 35 | Infrastructure Hardening / Bridge Strengthening | X | | |
| | 35 | Outreach/Public Awareness | X | | |
| B I O T E C H N I C S P I L L | 36 | Safety Procedures/Policies/Emergency Plan | | X | |
| | 37 | Local Emergency Planning Committee | | X | |
| | 38 | Risk Management Plan | X | | |
| | 39 | Industrial Site Buffering | | X | |
| | 40 | Emergency Response/Search & Rescue | | X | |
| | 41 | Haz-Mat spill Removal & Disposal Procedures | X | | |
| | 42 | Other (Specify) | | | |

St. Clair County Multi-Hazard Mitigation Plan

ST. CLAIR COUNTY MULTI HAZARD MITIGATION PLAN MITIGATION MEASURES SURVEY RESPONSES MUNICIPAL NEEDS IDENTIFIED

| Mitigation Need | Alorton | Belleville | Brooklyn | Caseyville | Centerville | E Carondelet | Fairmont City | Fayetteville | Freeburg | Lebanon | Leziburg | Marissa | Mazouzah | Milstadt | O'Fallon | Sageat | Shiloh | Smithton | St. Libory | Summerfield |
|-----------------|---------|------------|----------|------------|-------------|--------------|---------------|--------------|----------|---------|----------|---------|----------|----------|----------|--------|--------|----------|------------|-------------|
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Appendix B: Local Newspaper Articles

WORKING IN THE YARD



STEVE NAGY/News-Democrat

Linda Smith, left, her husband, Harold Smith, and Nancy Crocker work Wednesday in the front yard of Crocker's West Clay Street home in Collinsville. The Smiths live in Gillespie and make regular visits to Crocker's home to help out in the yard, have lunch and talk.

Multi-Hazard Mitigation Steering panel meets today

BY BRITTANY PALMER
News-Democrat

The St. Clair County Multi-Hazard Mitigation Steering Committee will host a public information and planning session at 2 p.m. today to discuss having a plan for natural disasters in place.

St. Clair County and the Southwestern Illinois Planning Commission are working with the Po-His Center of Indiana University-Purdue University Indianapolis and Southern Illinois University-Carbondale on the project.

SIUC and IUPUI have been working together with a computer software that helps to identify possible natural disasters that could affect the county, such as tornadoes, hazardous material release, earthquakes and floods.

The meeting will assess the threats these disasters pose to the county and what the possible outcome would be, financially in terms of property damage and health and life.

When this plan is completed, the county will be able to apply to the Fed-

eral Emergency Management Agency to receive grants to set up possible disaster prevention measures.

Jonathan Remo, who works in the geology department at SIUC, will give the presentation.

The meeting is open to the public and will be at the St. Clair County Emergency Operations Center, 110 W. Washington St., Belleville.

Contact reporter Brittany Palmer at bpalmer@bnd.com or 618-239-2535.

Appendix C: Adopting Resolutions

St. Clair County Multi-Hazard Mitigation Plan

Resolution # _____

ADOPTING THE ST CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN

WHEREAS, St. Clair County recognizes the threat that natural hazards pose to people and property; and

WHEREAS, undertaking hazard mitigation actions before disasters occur will reduce the potential for harm to people and property and save taxpayer dollars; and

WHEREAS, an adopted multi-hazard mitigation plan is required as a condition of future grant funding for mitigation projects; and

WHEREAS, St. Clair County participated jointly in the planning process with the other local units of government within the County to prepare a Multi-Hazard Mitigation Plan;

NOW, THEREFORE, BE IT RESOLVED, that the St. Clair County Board hereby adopts the St. Clair County Multi-Hazard Mitigation Plan as an official plan; and

BE IT FURTHER RESOLVED that the Southwestern Illinois Planning Commission will submit on behalf of the participating municipalities the adopted Multi-Hazard Mitigation Plan to the Illinois Emergency Management Agency and the Federal Emergency Management Agency for final review and approval.

ADOPTED THIS _____ Day of _____, 2010.

St. Clair County Board Chairman

Attested by: St. Clair County Clerk

St. Clair County Multi-Hazard Mitigation Plan

Resolution # _____

ADOPTING THE ST CLAIR COUNTY MULTI-HAZARD MITIGATION PLAN

WHEREAS, the *incorporated community* recognizes the threat that natural hazards pose to people and property; and

WHEREAS, undertaking hazard mitigation actions before disasters occur will reduce the potential for harm to people and property and save taxpayer dollars; and

WHEREAS, an adopted multi-hazard mitigation plan is required as a condition of future grant funding for mitigation projects; and

WHEREAS, the *incorporated community* participated jointly in the planning process with the other local units of government within the County to prepare a Multi-Hazard Mitigation Plan;

NOW, THEREFORE, BE IT RESOLVED, that the *incorporated community* hereby adopts the St. Clair County Multi-Hazard Mitigation Plan as an official plan; and

BE IT FURTHER RESOLVED that the Southwestern Illinois Planning Commission will submit on behalf of the participating municipalities the adopted Multi-Hazard Mitigation Plan to the Illinois Emergency Management Agency and the Federal Emergency Management Agency for final review and approval.

ADOPTED THIS _____ Day of _____, 2010.

City Mayor

City Council Member

City Council Member

City Council Member

City Council Member

Attested by: City Clerk

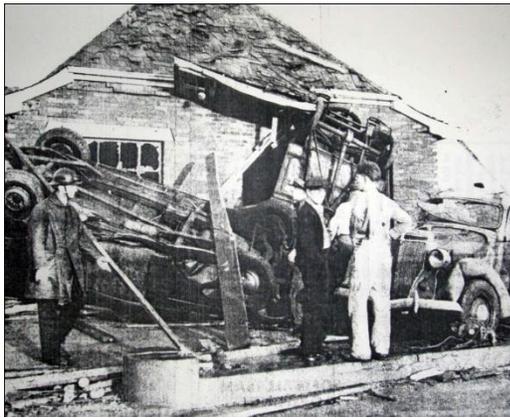
**Appendix D: St. Clair County Historical Disaster Pictures
and NCDC Historical Hazards**

Appendix D - St. Clair County Historical Hazards

Saint Clair County Photo Index

Included in this document are the photos, date of events, type of events and description. In the addition to this document there should be attachments to the email with a pdf or jpg form of each of the pictures. Note: the size of the picture seen in this index is usually not the actual size of the photo.

Tornados



File: Tornado4_March_1938

Date: March 13, 1938

Description: Bystanders look over the destruction, including Joseph Roesch's wrecked car, right.

Source: Belleville News-Democrat



File: Tornado7_March_1938

Date: March 13, 1938

Description: View of tornado approaching Okawville, IL.

Source: St. Louis Post-Dispatch



File: Tornado8_March_1938

Date: March 13, 1938

Description: Residents of O'Fallon, IL, view the wreckage after the storm had passed.

Source: St. Louis Post-Dispatch

St. Clair County Multi-Hazard Mitigation Plan



File: Tornado9_March_1938

Date: March 13, 1938

Description: The Beal family clearing away debris in their wrecked home at 10 North 28th street, Belleville. From left, Mrs. Beal, Harry Jr., H. L. Beal, and Jessie May.

Source: St. Louis Post-Dispatch



File: Tornado10_March_1938

Date: March 13, 1938

Description: Relatives gathered in the corridors of St. Elizabeth's Hospital in Belleville to obtain news of the injured.

Source: St. Louis Post-Dispatch



File: Tornado11_March_1938

Date: March 13, 1938

Description: General view of damaged homes along 28th street in Belleville.

Source: St. Louis Post-Dispatch



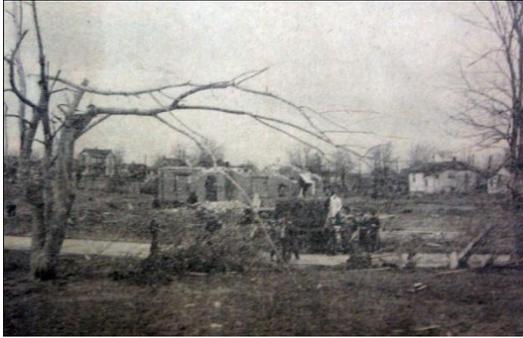
File: Tornado12_March_1938

Date: March 13, 1938

Description: General view of the wreckage at 27th and W Main Streets. In the background at left is Suppiger Canning Co. plant and at right the Union Grade School.

Source: St. Louis Post-Dispatch

St. Clair County Multi-Hazard Mitigation Plan



File: Tornado13_March_1938

Date: March 13, 1938

Description: A Scott Field soldier patrol stops for show from an army truck near the edge of the tornado's path, three blocks south of West Main street in Belleville. A shorn tree and an almost new brick bungalow from which the second story disappeared form a foreground and background for this storm-torn scene.

Source: St. Louis Post-Dispatch



File: Tornado14_March_1938

Date: March 13, 1938

Description: The refrigerator in the corner of this pile of wreckage is the only evidence it was the kitchen of the home of Mr. and Mrs. James Daniels at 4 South 29th Street.

Source: St. Louis Post-Dispatch



File: Tornado15_March_1938

Date: March 13, 1938

Description: A group of young refugees telling their woes to Miss Frances Blackburn of St. Louis, disaster relief representative of the Midwestern Branch of the Red Cross, which was designated the official relief agency, and which set up an office immediately on the edge of the stricken residential region at 28th and Main Streets.

Source: St. Louis Post-Dispatch



File: Tornado16_March_1938

Date: March 13, 1938

Description: Soldiers from Scott Field are shown inspecting autos which were in a garage that was completely blown away. The scene is south of W Main St, at 29th St, in Belleville.

Source: St. Louis Post-Dispatch

St. Clair County Multi-Hazard Mitigation Plan



File: Tornado17_March_1938

Date: March 13, 1938

Description: The Union School band was practicing in this room on the third floor of the school until a few moments before the tornado struck. The roof was blown entirely off the building, and the brick walls were cracked by the wind.

Source: St. Louis Post-Dispatch



File: Tornado18_March_1938

Date: March 13, 1938

Description: Verne Avenue and Vernier Street after the tornado.

Source: Belleville News-Democrat



File: Tornado19_March_1938

Date: March 13, 1938

Description: Tornado cut off top of Union School

Source: Belleville News-Democrat

St. Clair County Multi-Hazard Mitigation Plan



File: Tornado20_March_1938

Date: March 13, 1938

Description: Devastation was severe at 28th and Main Streets.

Source: Belleville News-Democrat



File: Tornado21_March_1938

Date: March 13, 1938

Description: Main and 28th Streets viewed from Union School Grounds

Source: Belleville News-Democrat

File: Tornado1_Nov_1988

Date: Thursday, November 17, 1988

Description: Max Beare Jr. and his wife, Phyllis, prepare to rebuild their roof—peeled off by the tornado.

Source: Belleville News-Democrat, Page 6, Section D



File: Tornado2_Nov_1988

Date: Thursday, November 17, 1988

Description: Amy Sullivan sits where her bed was when the tornado hit.

Source: Belleville News-Democrat/Tim Vizar

St. Clair County Multi-Hazard Mitigation Plan



File: Tornado3_Nov_1988

Date: Thursday, November 17, 1988

Description: Grover Scharf inspects a damaged shed at Westview Auto Body

Source: Belleville News-Democrat/Brad Kellerman



File: Tornado4_Nov_1988

Date: Thursday, November 17, 1988

Description: The roof of a house on Redwood Drive near Caseyville blankets a Firebird owned by Tom Burns.

Source: Belleville News-Democrat/Tim Vizer



File: Tornado5_Nov_1988

Date: Thursday, November 17, 1988

Description: The Wayn Pfingsten house at Imbs Station Road and Illinois 163 stands in ruins after storm.

Source: Belleville News-Democrat/Brad Kellerman

St. Clair County Multi-Hazard Mitigation Plan



File: Tornado6_Nov_1988

Date: Thursday, November 17, 1988

Description: Southwestern Electric Cooperative crews travel cautiously amid power and phone lines downed by the tornado.

Source: Belleville News-Democrat/Tim Vizer



File: Tornado1_June_2003

Date: June 10, 2003

Description: Damage to large trees and the roof of a home between Mississippi Ave and North Main Street in North Dupu Illinois.

Source:

<http://www.crh.noaa.gov/lx/science/surveys/DMG0610Calsey5.php>



File: Tornado2_June_2003

Date: June 10, 2003

Description: Damaged house trailer and nearby trees on McBride Avenue in North Dupu Illinois.

Source:

<http://www.crh.noaa.gov/lx/science/surveys/DMG0610Calsey5.php>



File: Tornado3_June_2003

Date: June 10, 2003

Description: Damage to an automobile by a fallen tree on McBride Avenue.

Source:

<http://www.crh.noaa.gov/lx/science/surveys/DMG0610Calsey5.php>

St. Clair County Multi-Hazard Mitigation Plan



File: Tornado4_June_2003

Date: June 10, 2003

Description: Several large trees severed or snapped near the base of the truck on the west side of McBride Avenue.

Source:

<http://www.crh.noaa.gov/lx/science/surveys/DMG0610Casey5.php>



File: Tornado5_June_2003

Date: June 20, 2003

Description: Damage to one of the three house trailers between 85th and Black Lane – southwest part of Caseyville, IL.

Source:

<http://www.crh.noaa.gov/lx/science/surveys/DMG0610Casey5.php>



File: Tornado6_June_2003

Date: June 10, 2003

Description: Roof of a large machine shed located on the east side of Black Lane severely damaged.

Source:

<http://www.crh.noaa.gov/lx/science/surveys/DMG0610Casey5.php>



File: Tornado7_June_2003

Date: June 10, 2003

Description: Vehicles overturned and destroyed 1/6 mile east of Black Lane.

Source: <http://www.crh.noaa.gov/lx/science/surveys/DMG0610Casey5.php>

St. Clair County Multi-Hazard Mitigation Plan



File: Tornado1_June_2009

Date: June 8, 2009

Description: Three tornados in St. Clair County Illinois and a fourth reported twister in Calhoun County kept officials busy early Monday evening. There were no reported injuries.

Source: KHQA

<http://www.connecttristates.com/news/photos.aspx?id=310305>



File: Tornado2_June_2009

Date: June 8, 2009

Description: Damage to a house from an EF2 tornado.

Source: http://www.crh.noaa.gov/lx/?n=06_08_2009



File: Tornado3_June_2009

Date: June 8, 2009

Description: Shiloh, Illinois rotating wall cloud

Source: http://www.crh.noaa.gov/lx/?n=06_08_2009

File: Tornado4_June_2009

Date: June 8, 2009

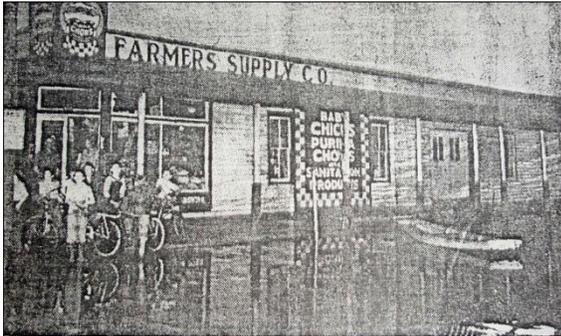
Description: Damage map of the June 8, 2009 EF2 tornado.

Source:

http://www.crh.noaa.gov/lx/?n=06_08_2009



Floods



File: Flood1_May_1943

Date: May 1943

Description: Rowboats were the only practical means of travel on Van Buren street, the main business district of New Athens, after the rising Kaskaskia river overflowed route 13 through the town.

Source: Belleville Daily Advocate



File: Flood2_May_1943

Date: May 1943

Description: The river didn't stay away from the door of the home of Mrs. Maggie Heitman, 61, picturesque New Athens fisherwoman. It came right in and flooded the floor of her home, from which neighbors helped her remove her last belongings last night.

Source: Belleville Daily Advocate



File: Flood1_April_1994

Date: April 29, 1994

Description: French Village firefighter Bill Dachsteiner rides on a sheriff's department vehicle after helping residents.

Source: Belleville News-Democrat/Brad Kellerman

File: Flood2_April_1994

Date: April 29, 1994

Description: Clint Hurley, who lives near Canteen Creek, checks on the flood waters.

Source: Belleville News-Democrat/Walter Grogan



St. Clair County Multi-Hazard Mitigation Plan



File: Flood1_May_1995

Date: May, 1995

Description: The city of Belleville was forced to close North End Park at Douglas Avenue and North Illinois Street in Belleville, located near Richland Creek.

Source: Belleville News-Democrat/Erik Mahr and Brad Kellerman



File: Flood2_May_1995

Date: May, 1995

Description: East St. Louis firefighter Kevin Smith helps Teenette Dae evacuate from her home at 700 Terrace Court.

Source: Belleville News-Democrat/Erik Mahr and Brad Kellerman

File: Flood3_May_1995

Date: May, 1995

Description: Youngsters in State Park Place use a metal tub as a makeshift boat and go sightseeing in their flooded neighborhood along Joe Street.

Source: Belleville News-Democrat/Erik Mahr and Brad Kellerman



St. Clair County Multi-Hazard Mitigation Plan



File: Flood6_May_1995

Date: May 21, 1995

Description: Motorists driving through Belleville Thursday were forced to slow down as they encountered flooding on the 900 block of North Illinois. The site was just one of several roadways that experienced flooding. Storms continued to drench the city throughout the afternoon before the sun broke through the clouds Friday.

Source: Belleville Journal, photo by T.L. Witt



File: Flood1_Sept_2008

Date: September 14, 2008

Description: Picture of the flooding in Cahokia, IL, on September 14, 2008.

Source:

<http://www.topix.com/album/detail/cahokia-il/NF9DD2UF214J6T3P>



File: Flood1_March_2008

Date: March 23, 2008

Description: Ervin Smith, ferries customers to his bar on Saturday in New Athens, IL.

Source: msnbc

<http://www.msnbc.msn.com/id/23755227/wid/11>

Severe Thunderstorms, Wind or Hail Events



File: Wind1_Feb_1999

Date: February 27, 1999

Description: Significant wind damage occurred in north St. Clair County along County Road 24. The damaged area was about 2 miles in length, and one house had half of its roof blown off and a garage/apartment building was blown off its foundation.

Source:

http://www.srh.noaa.gov/bmx/significant_events/1999/02_27/index.php



File: Wind2_Feb_1999

Date: February 27, 1999

Source:

http://www.srh.noaa.gov/bmx/significant_events/1999/02_27/index.php

Fire/Explosions



File: Fire1_June_1993

Date: June 2, 1993

Description: Firefighters pour water on the remains of a house that exploded in Cahokia.

Source: Belleville News-Democrat/Brad Kellerman



File: Fire1_Feb_1997

Date: February 12, 1997

Description: The first of the explosions shifted the house off its foundation and severely bowed the roof before it burned.

Source: Belleville News-Democrat/Robert Fehringer



File: Fire1_March_1996

Date: March 23, 1996

Description: Caseyville firefighters continued to pour water on the blaze about 7 a.m.

Source: Belleville News-Democrat/Tim Vizer



File: Fire1_Feb_1996

Date: February 8, 1996

Description: Fire completely destroyed a mobile home Wednesday at the Town & Country Mobile Home Park at 6601 St. Clair Ave. in unincorporated St. Clair County.

Source: Belleville News-Democrat/Bill DeMestri

**Appendix D - Historic Hazards: National Climatic Data Center U.S.
Storm Event Database for St. Clair County Illinois**

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|-----------|----------|-------|--------|-----------------|---------------|
| St. Clair | 5/24/1952 | Tornado | F1 | 0 | 0 | 25K | None Reported |
| St. Clair | 10/6/1955 | Tornado | F1 | 0 | 0 | 250K | None Reported |
| St. Clair | 10/6/1955 | Tornado | F1 | 0 | 0 | 25K | None Reported |
| St. Clair | 11/15/1955 | Hail | 1.25 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 2/25/1956 | Tornado | F4 | 6 | 20 | 2.5M | None Reported |
| St. Clair | 4/14/1956 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/15/1956 | Tornado | F2 | 0 | 0 | 25K | None Reported |
| St. Clair | 3/14/1957 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 3/14/1957 | Tstm Wind | 55 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/25/1957 | Tornado | F2 | 0 | 0 | 25K | None Reported |
| St. Clair | 6/12/1957 | Tstm Wind | 70 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 12/18/1957 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/5/1958 | Tornado | F3 | 1 | 8 | 250K | None Reported |
| St. Clair | 4/24/1958 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/24/1958 | Tstm Wind | 50 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 5/31/1958 | Tornado | F1 | 0 | 0 | 3K | None Reported |
| St. Clair | 6/1/1958 | Tornado | F1 | 0 | 0 | 3K | None Reported |
| St. Clair | 3/15/1959 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/5/1961 | Hail | 2.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/24/1961 | Tornado | F2 | 0 | 1 | 25K | None Reported |
| St. Clair | 6/24/1962 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/2/1963 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/2/1964 | Hail | 2.00 | 0 | 0 | 0 | None Reported |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|-----------|----------|-------|--------|-----------------|---------------|
| | | | in. | | | | |
| St. Clair | 8/3/1967 | Tornado | F | 0 | 0 | 3K | None Reported |
| St. Clair | 3/30/1968 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/3/1968 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/3/1968 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 5/15/1968 | Tornado | F3 | 4 | 60 | 250K | None Reported |
| St. Clair | 6/22/1969 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/22/1969 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/23/1970 | Hail | 1.50 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/23/1970 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/24/1970 | Tstm Wind | 50 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/9/1970 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 3/14/1971 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/7/1971 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/10/1971 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 12/15/1971 | Tstm Wind | 50 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/11/1972 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/11/1972 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/11/1972 | Tstm Wind | 56 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/21/1972 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/21/1972 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/4/1973 | Tornado | F2 | 0 | 0 | 0K | None Reported |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|-----------|----------|-------|--------|-----------------|---------------|
| St. Clair | 6/18/1973 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/18/1973 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/9/1973 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/9/1973 | Tstm Wind | 68 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 11/15/1973 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/1/1974 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/1/1974 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/3/1974 | Hail | 2.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/3/1974 | Hail | 2.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/3/1974 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 5/29/1974 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/9/1974 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/9/1974 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/9/1974 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/14/1974 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/14/1974 | Tstm Wind | 58 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/28/1974 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/28/1974 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/18/1975 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 5/8/1975 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 5/19/1975 | Hail | 2.00 | 0 | 0 | 0 | None Reported |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|----------|-------|--------|-----------------|---------------|
| | | | in. | | | | |
| St. Clair | 8/29/1975 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 3/20/1976 | Hail | 3.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 3/20/1976 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 3/20/1976 | Tornado | F2 | 0 | 0 | 250K | None Reported |
| St. Clair | 7/26/1976 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/31/1976 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 2/23/1977 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 3/28/1977 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 5/30/1977 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/30/1977 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/24/1977 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/24/1977 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/7/1977 | Tstm Wind | 65 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/9/1977 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/10/1977 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 5/12/1978 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 5/28/1978 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/25/1978 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/25/1978 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/25/1978 | Tstm Wind | 60 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/25/1978 | Tstm Wind | 52 kts. | 0 | 0 | 0 | None Reported |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|-----------|----------|-------|--------|-----------------|---------------|
| St. Clair | 8/25/1978 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 10/12/1978 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 3/23/1979 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/30/1979 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/11/1980 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/10/1980 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/10/1980 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/6/1980 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/6/1980 | Tstm Wind | 54 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/6/1980 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/16/1980 | Tstm Wind | 50 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/22/1980 | Tstm Wind | 52 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/22/1980 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/3/1981 | Tstm Wind | 51 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/20/1981 | Tstm Wind | 61 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/23/1981 | Tstm Wind | 58 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/2/1982 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/2/1982 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/16/1982 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 5/28/1982 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 5/28/1982 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/7/1982 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|----------|-------|--------|-----------------|---------------|
| St. Clair | 6/7/1982 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/8/1982 | Tstm Wind | 50 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/8/1982 | Tstm Wind | 52 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/8/1982 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/15/1982 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/4/1982 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/4/1982 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/4/1982 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 12/2/1982 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/27/1983 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 5/1/1983 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 5/1/1983 | Tornado | F2 | 0 | 20 | 2.5M | None Reported |
| St. Clair | 8/5/1983 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/5/1983 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/6/1983 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/6/1983 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 3/15/1984 | Tstm Wind | 52 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 3/15/1984 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/3/1984 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/3/1984 | Tornado | F0 | 0 | 0 | 250K | None Reported |
| St. Clair | 4/3/1984 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 5/25/1984 | Tornado | F0 | 0 | 0 | 0K | None Reported |
| St. Clair | 5/25/1984 | Tstm Wind | 52 kts. | 0 | 0 | 0 | None Reported |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|-----------|----------|-------|--------|-----------------|---------------|
| St. Clair | 5/25/1984 | Tstm Wind | 58 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/8/1984 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/10/1984 | Tstm Wind | 56 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 11/9/1984 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 11/19/1985 | Hail | 2.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 5/13/1986 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/9/1986 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/9/1986 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/11/1986 | Tstm Wind | 52 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/2/1987 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/25/1987 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/6/1987 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/6/1987 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/6/1987 | Hail | 3.50 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/6/1987 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/6/1987 | Hail | 3.50 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/8/1987 | Tstm Wind | 61 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/26/1987 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/5/1988 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|-----------|----------|-------|--------|-----------------|---------------|
| St. Clair | 5/8/1988 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/8/1988 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/8/1988 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/17/1988 | Tstm Wind | 52 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 11/15/1988 | Tornado | F2 | 0 | 0 | 250K | None Reported |
| St. Clair | 11/15/1988 | Tornado | F3 | 0 | 0 | 2.5M | None Reported |
| St. Clair | 4/3/1989 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/1/1989 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/1/1989 | Hail | 2.00 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/26/1989 | Tstm Wind | 53 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 11/15/1989 | Tstm Wind | 70 kts. | 1 | 20 | 0 | None Reported |
| St. Clair | 5/16/1990 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/20/1990 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 10/3/1990 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 11/26/1990 | Tornado | F0 | 0 | 0 | 25K | None Reported |
| St. Clair | 5/10/1991 | Tornado | F0 | 0 | 0 | 0K | None Reported |
| St. Clair | 5/11/1991 | Tornado | F0 | 0 | 0 | 0K | None Reported |
| St. Clair | 6/15/1991 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 6/15/1991 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/9/1991 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 8/8/1991 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/15/1992 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/16/1992 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-------------|----------|-------|--------|-----------------|--|
| St. Clair | 6/13/1992 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/4/1992 | Hail | 1.50 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/4/1992 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/4/1992 | Tornado | F1 | 0 | 0 | 2.5M | None Reported |
| St. Clair | 7/14/1992 | Tstm Wind | 52 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/16/1992 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/16/1992 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/7/1992 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/9/1992 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/9/1992 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 9/20/1992 | Tstm Wind | 0 kts. | 0 | 0 | 0 | None Reported |
| St. Clair | 4/19/1993 | Hail | 1.75 in. | 0 | 0 | 5K | County officials reported golf ball-size hail and wind gusts to 45 mph. |
| Belleville | 5/6/1993 | Flash Flood | N/A | 0 | 0 | 5K | County officials reported power lines blown down in Belleville with some flash flooding on city streets. Streets flooded quickly in Swansea after nearly 2.50 inches of rain fell. |
| Swansea | 5/6/1993 | Flash Flood | N/A | 0 | 0 | 1K | County officials reported power lines blown down in Belleville with some flash flooding on city streets. Streets flooded quickly in Swansea after nearly 2.50 inches of rain fell. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|--------------------|----------|-------|--------|-----------------|---|
| Belleville | 5/6/1993 | Flash Flood | N/A | 0 | 0 | 5K | Ham radio operators reported one inch diameter hail in Smithton. Flash flooding was also reported along Highway 159 south of Belleville. The St. Clair EOC reported one inch diameter hail near Athens. |
| Smithton | 5/6/1993 | Hail | 1.00 in. | 0 | 0 | 0 | Ham radio operators reported one inch diameter hail in Smithton. Flash flooding was also reported along Highway 159 south of Belleville. The St.Clair EOC reported one inch diameter hail near Athens. |
| New Athens | 5/6/1993 | Hail | 1.00 in. | 0 | 0 | 1K | Ham radio operators reported one inch diameter hail in Smithton. Flash flooding was also reported along Highway 159 south of Belleville. The St.Clair EOC reported one inch diameter hail near Athens. |
| Belleville | 5/6/1993 | Thunderstorm Winds | N/A | 0 | 0 | 5K | County officials reported power lines blown down in Belleville with some flash flooding on city streets. Streets flooded quickly in Swansea after nearly 2.50 inches of rain fell. |
| Cahokia | 8/23/1993 | Thunderstorm Wind | N/A | 0 | 0 | 1K | County officials reported trees and power lines down in Cahokia. A large warehouse roof was later damaged from high wind. |
| Belleville | 8/23/1993 | Thunderstorm Wind | N/A | 0 | 0 | 50K | County officials reported trees and power lines down in Cahokia. A large warehouse roof was later damaged from high wind. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|-------------|----------|-------|--------|-----------------|--|
| Centreville | 9/23/1993 | Flash Flood | N/A | 0 | 0 | 5K | Flash flooding was reported over various highways across the county. Highways 13 and 157 were closed at Centreville due to high water crossing the road. Highway 15 south of Freeburg also was closed and many streets in Belleville were flooded. |
| Belleville | 11/14/1993 | Flash Flood | N/A | 0 | 0 | 50K | The county sheriff reported flash flooding across sections of Highways 161, 163, 158, and 157. Many other roads and creeks in the Belleville, Centreville, and Millstadt areas were also flash flooded. |
| Freeburg | 4/11/1994 | Flash Flood | N/A | 0 | 0 | 50K | The county sheriff reported flash flooding over Highways 13 and 15 near Freeburg. Nearly four inches of rain was reported by an observer in Lebanon and west of Mascoutah which produced flash flooding along Silver Creek. |
| St. Clair | 4/12/1994 | Flash Flood | N/A | 0 | 0 | 5K | Another series of thunderstorms moved across St. Clair County leading to additional flash flooding of many highways that had been previously closed the evening before. |
| Dupo | 4/15/1994 | Hail | 0.75 in. | 0 | 0 | 0 | Dime-size hail was reported along with wind gusts to 40 mph in Dupo. Trees were also blown down in Floraville damaging several homes while one-inch hail was reported in Millstadt. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|--------------------|----------|-------|--------|-----------------|---|
| Millstadt | 4/15/1994 | Hail | 1.00 in. | 0 | 0 | 1K | Dime-size hail was reported along with wind gusts to 40 mph in Dupo. Trees were also blown down in Floraville damaging several homes while one-inch hail was reported in Millstadt. |
| Scott AFB | 4/15/1994 | Hail | 0.75 in. | 0 | 0 | 0 | Hail 0.75 inch in diameter was reported at Scott Air Force Base. |
| Floraville | 4/15/1994 | Thunderstorm Winds | N/A | 0 | 0 | 50K | Dime-size hail was reported along with wind gusts to 40 mph in Dupo. Trees were also blown down in Floraville damaging several homes while one-inch hail was reported in Millstadt. |
| Freeburg | 4/15/1994 | Thunderstorm Winds | N/A | 0 | 0 | 5K | Power lines and poles were blown down just east of Freeburg. The county sheriff also reported several large trees down in New Athens which damaged parked cars. |
| New Athens | 4/15/1994 | Thunderstorm Winds | N/A | 0 | 0 | 50K | Power lines and poles were blown down just east of Freeburg. The county sheriff also reported several large trees down in New Athens which damaged parked cars. |
| Freeburg | 4/26/1994 | Hail | 1.00 in. | 0 | 0 | 0 | Several large trees were knocked down in Dupo and wind gusts as high as 70 mph were reported by ham radio spotters in Belleville. Quarter-size hail was also reported in Freeburg and dime-size hail was reported in Mascoutah. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|--------------------|----------|-------|--------|-----------------|---|
| Mascoutah | 4/26/1994 | Hail | 0.75 in. | 0 | 0 | 0 | Several large trees were knocked down in Dupo and wind gusts as high as 70 mph were reported by ham radio spotters in Belleville. Quarter-size hail was also reported in Freeburg and dime-size hail was reported in Mascoutah. |
| Dupo | 4/26/1994 | Thunderstorm Winds | N/A | 0 | 0 | 1K | Several large trees were knocked down in Dupo and wind gusts as high as 70 mph were reported by ham radio spotters in Belleville. Quarter-size hail was also reported in Freeburg and dime-size hail was reported in Mascoutah. |
| Belleville | 4/26/1994 | Thunderstorm Winds | N/A | 0 | 0 | 5K | Several large trees were knocked down in Dupo and wind gusts as high as 70 mph were reported by ham radio spotters in Belleville. Quarter-size hail was also reported in Freeburg and dime-size hail was reported in Mascoutah. |
| Centreville | 4/27/1994 | Hail | 0.75 in. | 0 | 0 | 0 | Ham radio spotters reported dime-size hail in Centreville. The county sheriff reported trees and power lines down in Belleville several minutes later, followed by golf ball-size hail. |
| Belleville | 4/27/1994 | Hail | 1.75 in. | 0 | 0 | 1K | Ham radio spotters reported dime-size hail in Centreville. The county sheriff reported trees and power lines down in Belleville several minutes later, followed by golf ball-size hail. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|--------------------|----------|-------|--------|-----------------|--|
| Belleville | 4/27/1994 | Hail | 0.75 in. | 0 | 0 | 0 | Ham radio spotters reported 0.75-inch diameter hail at the intersection of Highways 159 and 15 on the south end of Belleville. |
| Belleville | 4/27/1994 | Thunderstorm Winds | N/A | 0 | 0 | 5K | Ham radio spotters reported dime-size hail in Centreville. The county sheriff reported trees and power lines down in Belleville several minutes later, followed by golf ball-size hail. |
| Belleville And | 4/28/1994 | Flash Flood | N/A | 0 | 0 | 5K | Flash flooding was reported on several creeks and smaller rivers. The Illinois State Police reported water over parts of Interstate 64 and along Route 3. |
| St. Clair | 6/12/1994 | Heat | N/A | 0 | 10 | 0 | South Central and Southwest Illinois. Most of the region had excessive heat for 12 straight days with highs over 90 and high relative humidities. This produced heat index values well over 100 degrees for several days. Numerous people were treated at area hospitals for heat stroke or exhaustion. |
| St. Clair | 1/3/1995 | Cold | N/A | 1 | 6 | 0 | Several days of cold weather, including high temperatures in the teens and lows in the single digits, lead to one known fatality and several reports of hypothermia at area hospitals. A 62-year-old woman died of hypothermia on Jan. 4th after she was found freezing on her back porch in East St. Louis. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|---------------------------|-------------|-------------|------------|--------------|---------------|------------------------|--|
| St. Clair | 1/6/1995 | Glaze Ice | N/A | 0 | 0 | 5K | A weak winter storm brought sleet into southwest Illinois during the early morning hours of the 6th, but it switched over to freezing rain and drizzle later that morning. Glaze ice accumulations ranged from one-quarter to three-quarters inch leaving roads hazardous. Numerous automobile accidents were reported and schools remained closed that morning. |
| St. Clair | 4/18/1995 | High Winds | 0 kts. | 0 | 0 | 400K | West and Southwest Illinois A strong storm system that moved from the Plains across Iowa and into the Great Lakes brought strong gradient winds to parts of western and southwest Illinois. Winds were sustained between 30 and 40 mph most of the day with gusts to nearly 60 mph. Numerous trees and billboards were damaged or blown down. Many homes sustained minor damage, either to roofs, porches, or garages. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|----------|-------------|-----|-------|--------|-----------------|---|
| St. Clair | 5/9/1995 | River Flood | N/A | 0 | 0 | 15.0M | Serious flooding returned to the Mississippi River Valley in May, two short years after the record flood of 1993. The Flood of 1995 brought back a lot of rainfall memories from 1993 but damage was substantially less due to aggressive buyouts. While the flood did cause a great deal of hardship and disruption to the economy and daily lives, it was estimated that people, homes, and business affected by the flood in 1995 were 50% less than in 1993. This was primarily due to the federally sponsored buyout programs which moved many people out of the floodplains. May 1995 was the wettest May on record in the St. Louis area. Several days of heavy rain from May 16-18 brought as much as 15 inches of rain to local areas just east of St. Louis. The spring (March, April, May) was the fifth wettest on record. On the Mississippi River down to Grafton, Illinois, crest stages were three to seven feet above flood stage, 6 to 11 feet below 1993 levels. In the area of the Mississippi where the Illinois and the Missouri Rivers join, crest stages were 11 to 14 feet above flood stage and seven to eight feet below 1993 records. From Chester, Illinois downstream through Caruthersville, crest stages were 9 to 17 feet above flood stage and up to five feet below the 1993 records. A new record was recorded at Thebes, Illinois at 45.57 feet. The previous record was 45.50 feet during 1993. The 1993 flood had a much higher flow than this year but due to the broken levees in the Thebes |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------|------|-----|-------|--------|-----------------|---|
| | | | | | | | <p>area, the water was not contained in the proper river channel and therefore did not reach the high stage that was recorded this year. At the end of May, the river points had crested and the rivers were beginning a slow fall. Additional lighter rainfall slowed the fall and prolonged the event for several more weeks. One of the major differences between the floods of 1993 and 1995 was the length of occurrence. The Flood of 1993 covered two events, a spring flood, and then the major summer flooding which continued into September. While many rivers were still above flood stage at the end of May, they were falling fairly significantly and were not expected to remain above flood stage through June. Another difference was the lack of levees that remained along the rivers. Many agricultural levees destroyed by the Flood of 1993 were not rebuilt. What was left, was quickly overtopped or washed away in 1995. Similar to 1993, many roads and bridges were closed, creating transportation problems. The Mississippi River was closed to barge traffic, bringing that industry to a standstill. An estimated 1,000 barges had to be parked in the Mississippi River as the river was closed to traffic from St. Louis south to Cairo, IL. A fairly new industry, riverboat gambling, also suffered. Boats were made inaccessible by the flooding, causing a loss of up to \$20 thousand per day in tax revenue for some cities. It was estimated that at least \$2.8 million in casino</p> |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|--------------------|----------|-------|--------|-----------------|---|
| | | | | | | | tax revenue was lost to the state. ,,Flood ,Above Flood Stage,,,Crest River and Station,Stage,From,To,,Stage,,Date KASKASKIA RIVER Vandalia,18,5/9,/12,,22.8,,5/11 ,,5/17,/21,,27.2,,5/18 Carlyle,423.5 ,5/21, --,,425.2,,5/28 ILLINOIS RIVER Hardin,,25,5/ 1, --,36.7,,5/29 Counties on the Illinois side of the Mississippi also suffered, but losses were less, again due to the aggressive buyout program after the 1993 flood. Calhoun, Madison, St.Clair, Monroe, and Randolph Counties all saw some degree of flooding. Much of the flood damage in Madison and St.Clair counties was due to a flash flood event on the 17th and 18th. In East St. Louis on the 18th, at least 600 families had to be evacuated due to flash flooding. While the Mississippi River flooding primarily affected agricultural lands and abandoned communities, the Illinois River approached record levels and caused considerable problems. Flooding affected Scott, Pike, Greene, Calhoun, and Jersey counties. In Calhoun County, the cities of Hardin and Kampsville had flooding. Highway 100 in Jersey County was closed in some locations due to the flooding. Damage estimates from Illinois counties had not yet been compiled as of this report. |
| Belleville | 5/13/1995 | Hail | 1.75 in. | 0 | 0 | 0 | Reported by county officials. |
| Mascoutah | 5/13/1995 | Thunderstorm Winds | N/A | 0 | 0 | 0K | County officials reported power lines and poles down. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|--------------------|----------|-------|--------|-----------------|--|
| St. Clair | 5/16/1995 | Flash Flood | N/A | 0 | 0 | 1K | Several inches of rain in only a few hours produced flash flooding across the county. U.S. Highway 50 was closed in the Lebanon area along with roads near Mascoutah, Tilden, and Freeburg. Underpasses had nearly ten feet of water in them. |
| St. Clair | 5/16/1995 | Flash Flood | N/A | 0 | 0 | 1.8M | Several storms passing over the area dumped 10 to 12 inches of rain leading to widespread flash flooding over northern sections of the county, along and north of Interstate 64. Some roads had several feet of water over them. A nursing home was evacuated in Caseyville when flood waters caused levees along the Canteen Creek to fail. |
| Smithton | 5/16/1995 | Hail | 0.75 in. | 0 | 0 | 0 | Along with large hail, wind gusts to 60 miles an hour were reported. |
| Freeburg | 5/16/1995 | Hail | 0.75 in. | 0 | 0 | 0 | Along with large hail, wind gusts to 60 miles an hour were reported. |
| Freeburg | 5/16/1995 | Thunderstorm Winds | N/A | 0 | 0 | 0 | Along with large hail, wind gusts to 60 miles an hour were reported. |
| Swansea | 5/16/1995 | Thunderstorm Winds | N/A | 0 | 0 | 1K | Numerous power lines and large trees were knocked down across the county. |
| Belleville | 5/16/1995 | Thunderstorm Winds | N/A | 0 | 0 | 2K | Numerous power lines and large trees were knocked down across the county. |
| O'Fallon | 5/16/1995 | Thunderstorm Winds | N/A | 0 | 0 | 1K | Numerous power lines and large trees were knocked down across the county. |
| Scott AFB | 5/16/1995 | Thunderstorm Winds | N/A | 0 | 0 | 0K | Numerous power lines and large trees were knocked down across the county. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|--------------------|----------|-------|--------|-----------------|---|
| Mascoutah | 5/16/1995 | Thunderstorm Winds | N/A | 0 | 0 | 15K | The roof of an apartment complex collapsed after being damaged from high winds. Numerous large trees and power lines were blown down throughout the Mascoutah area. Reported by ham radio spotters. |
| Smithton | 5/18/1995 | Hail | 1.75 in. | 0 | 0 | 0 | Golf ball-size hail was reported in Smithton along with minor roof damage and trees snapped off in Freeburg. |
| Freeburg | 5/18/1995 | Thunderstorm Winds | N/A | 0 | 0 | 1K | Golf ball-size hail was reported in Smithton along with minor roof damage and trees snapped off in Freeburg. |
| Fayetteville | 5/18/1995 | Thunderstorm Winds | N/A | 0 | 0 | 1K | Trees and power lines were blown down. |
| Millstadt | 5/18/1995 | Tornado | F0 | 0 | 0 | 4K | A tornado touched down briefly damaging one outbuilding and knocking down several large trees. |
| St. Clair | 6/2/1995 | Urban Flood | N/A | 0 | 0 | 0 | Nearly three inches of rain caused urban flooding across parts of the county. Belleville had numerous flooded streets and cars were stuck in high water on Highways 158 and 159. |
| New Athens | 6/10/1995 | Thunderstorm Winds | N/A | 0 | 0 | 0K | Utility poles and lines were knocked down causing power outages. |
| Christopher | 6/27/1995 | Thunderstorm Winds | N/A | 0 | 0 | 0 | Nearly three inches of rain caused urban flooding across parts of the county. Belleville had numerous flooded streets and cars were stuck in high water on Highways 158 and 159. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|------|-----|-------|--------|-----------------|--|
| St. Clair | 7/11/1995 | Heat | N/A | 2 | 95 | 50K | A very hot and humid air mass settled into the region on the 11th with nearly a week of high temperatures close to 100 degrees and heat indices approaching 120 at times. Known deaths were in the metropolitan areas east of St.Louis, with most victims elderly and living alone. In St.Clair County, a 42-year-old man was found on the second floor of his Fairmont City apartment building. A 69-year-old man was also found in Swansea with no air conditioning and all windows closed in his apartment. Many roads throughout the region also buckled from the extreme heat and crops withered with the dry weather. There was no widespread loss of livestock although dairy cows produced less milk, and cattle/swine/chickens put on less weight. M42PH, M69PH, F66PH, M83P, M75P. |
| St. Clair | 7/28/1995 | Heat | N/A | 0 | 30 | 5K | Another heat wave moved into the area with heat indices at 110 for several days. Several people were treated in area hospitals for heat related illnesses, mainly across metropolitan areas just east of St.Louis. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|--------------|-----|-------|--------|-----------------|--|
| St. Clair | 8/9/1995 | Heat | N/A | 2 | 97 | 0 | A heat wave developed during most of middle August with high temperatures near the 100 degree mark and heat indices over 110. Two deaths were attributed to the heat in the St. Louis metro area, with many more people suffering from heat related illnesses. Area crops also suffered greatly from the hot and dry weather. M44P, F88P |
| St. Clair | 12/19/1995 | Winter Storm | N/A | 0 | 0 | 0 | The first significant winter storm of the season struck west central and southwest Illinois mainly during the early morning hours of the 19th. A mixture of rain, sleet and snow began falling around 0100, becoming all snow by 0500. As a result the morning commute for workers heading to St. Louis was brought to a virtual standstill. While there were numerous traffic accidents, there were no serious injuries. Schools throughout the region closed for the day. Snowfall amounts generally ranged from four to six inches. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|--------------|----------|-------|--------|-----------------|---|
| St. Clair | 1/2/1996 | Winter Storm | N/A | 0 | 0 | 0 | A snowstorm moved east into west central and southwest Illinois, dropping from 6 to 10 inches of snow. Strong winds caused blowing and drifting snow resulting in the closing of many county roads. Classes were cancelled at many area schools on the 3rd. Numerous auto accidents were attributed to slick roads and poor driving conditions. Some power outages in Belleville, New Athens, and Columbia were caused by strong winds. |
| Marissa | 3/5/1996 | Hail | 0.75 in. | 0 | 0 | 0 | The county Sheriff reported 3/4 inch hail near Marissa. |
| Belleville | 4/19/1996 | Hail | 0.75 in. | 0 | 0 | 0 | Amateur radio spotters reported 3/4 inch hail in Belleville. |
| Mascoutah | 4/19/1996 | Hail | 1.75 in. | 0 | 0 | 0 | Amateur radio spotters reported golf ball size hail in Mascoutah. |
| O Fallon | 4/19/1996 | Hail | 1.00 in. | 0 | 0 | 0 | Amateur radio spotters reported 1 inch hail in O'Fallon. |
| Scott AFB | 4/19/1996 | Hail | 2.00 in. | 0 | 0 | 0 | Air Force personnel reported 2 inch hail at Scott Air Force Base. |
| Freeburg | 4/19/1996 | Tornado | F0 | 0 | 0 | 5K | A small tornado touched down just southwest of Freeburg. Damage was limited to downed trees and power lines. The damage path missed an elementary school by only 50 yards. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-------------|---------|-------|--------|-----------------|---|
| St. Clair | 4/28/1996 | Flash Flood | N/A | 0 | 0 | 0 | St. Clair County was declared a Federal Disaster Area due to the flash flooding which occurred, the result of a 6 to 8 inch rainfall. A levee along Harding Creek broke flooding numerous homes and businesses. The Washington Park area was especially hard hit as an entire mobile home park had to be evacuated. Interstate highways 70, 64, and 255 were all closed at various times. Flooding also occurred near Freeburg as Silver Creek rose out of its banks closing Highway 13. Much of the floodwater remained standing for several days complicating clean-up activities. County government did not have any damage estimates available. |
| St. Clair | 4/28/1996 | High Wind | 61 kts. | 0 | 0 | 0 | A significant pressure difference in the vicinity of a line of thunderstorms caused a widespread high wind event with winds gusts around 70 mph behind the line of storms. Major power outages occurred as trees and power lines were toppled. The majority of the damage in Illinois occurred in Madison County. Roofs were damaged in Edwardsville and Wood River. The Bethalto police station lost their roof during the wind. A tractor-trailer was blown off I-270 near the intersection with I-70. Damage across the area was estimated to be near \$1 million. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-------|----------|-------|--------|-----------------|---|
| St. Clair | 5/1/1996 | Flood | N/A | 0 | 0 | 0 | Heavy rain from late April into Early May caused flooding on the Mississippi, Illinois and several smaller rivers in the area. A record stage was set on the La Moine River at Ripley, IL. Damage was primarily limited to agricultural lowlands, Although some towns had some roads closed. Some stages and highlights: La Moine River Flood Stage Crest Ripley 22 29.8 5/8 New Record, old record 29.07, set in 1985 Kaskaskia River Flood Stage Crest Vandalia 18 27.46 4/30 Illinois River Flood Stage Crest Hardin 25 31.5 5/31 Mississippi River Flood Stage Crest Quincy 17 24.4 5/29 Grafton 30 25.3 5/16 Chester 27 35.5 5/16 Calhoun County, Mozier, Hamburg, and Kampsville: Highway 96 was closed at Mozier and Hamburg. The ferrys that cross the Mississippi River, including the Brussels and Golden Eagle, has to cease operations due to the high water. On the Illinois River at Kampsville, street flooding occurred in town. Jersey County, Grafton: Lower parts of this river town flooded, as is usually the case. However damage was minimal, again due to buyouts following the 1993 and 1995 flooding. |
| Marissa | 5/2/1996 | Hail | 0.75 in. | 0 | 0 | 0 | St. Clair County Sheriff reported dime size hail in Marissa. |
| Scott AFB | 5/25/1996 | Hail | 1.50 in. | 0 | 0 | 0 | Ping-Pong ball size hail fell at Scott Air Force Base. |
| Lebanon | 5/25/1996 | Hail | 1.00 | 0 | 0 | 0 | Amateur radio spotters reported 1 inch hail. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|----------|-------|--------|-----------------|--|
| | | | in. | | | | |
| Lenzburg | 5/27/1996 | Tstm Wind | 55 kts. | 0 | 0 | 0 | County sheriff reported downed trees near Lenzburg. |
| Marissa | 5/27/1996 | Tstm Wind | 58 kts. | 0 | 0 | 5K | County sheriff reported trees and power lines down. |
| Smithton | 7/19/1996 | Hail | 1.75 in. | 0 | 0 | 0 | Golf ball size hail was reported in Smithton. |
| New Athens | 7/19/1996 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| New Athens | 7/19/1996 | Tstm Wind | 55 kts. | 0 | 0 | 2K | Wind gusts downed trees and power lines. One home suffered roof damage from a downed tree. |
| Belleville | 7/19/1996 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Amateur radio spotters reported trees and power lines down mainly across the south part of Belleville. |
| Marissa | 7/19/1996 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Power lines were downed in Marissa. |
| Cahokia | 7/28/1996 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| Belleville | 7/28/1996 | Lightning | N/A | 0 | 0 | 20K | Lightning struck a business starting a fire resulting in an estimated \$20,000 damage. |
| Marissa | 8/15/1996 | Tstm Wind | 50 kts. | 0 | 0 | 0 | Thunderstorm wind gusts snapped large tree limbs. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|--------------|----------|-------|--------|-----------------|---|
| St. Clair | 9/26/1996 | High Wind | 45 kts. | 0 | 0 | 140K | Winds gusting to around 50 mph accompanying a strong cold front caused scattered damage across the Metro-East area. Most damage was limited to trees and power lines, although a few homes were also damaged by falling trees or large limbs. An estimated 5000 residents lost power across the area. Some corn was also flattened in fields in Clinton County near St. Rose. |
| Fairview Hgts | 10/17/1996 | Hail | 1.75 in. | 0 | 0 | 0 | County sheriff reported golf ball size hail. |
| Belleville | 10/17/1996 | Tstm Wind | 52 kts. | 0 | 0 | 0 | County sheriff reported power lines down just east of Belleville. |
| Mascoutah | 10/17/1996 | Tstm Wind | 51 kts. | 0 | 0 | 0 | County sheriff reported trees down. |
| Cahokia | 10/22/1996 | Tstm Wind | 50 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed trees and power lines across much of Cahokia. Some minor roof damage also occurred. |
| St. Clair | 11/25/1996 | Winter Storm | N/A | 0 | 0 | 0 | Light freezing rain developed during the late afternoon and continued into the evening. Numerous accidents occurred on slick roads and downed power lines were scattered throughout the area. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|--------------|----------|-------|--------|-----------------|--|
| St. Clair | 1/8/1997 | Winter Storm | N/A | 0 | 0 | 0 | A widespread winter storm affected the area from late afternoon on the 8th through the night of the 9th. Snow fall across the area was mostly in the 5 to 8 inch range. Strong winds and very cold temperatures moved in on the evening of the 9th creating more problems. The winds caused drifting snow and very cold wind chills. Schools remained closed for several days. |
| St. Clair | 1/15/1997 | Winter Storm | N/A | 0 | 0 | 0 | Freezing rain and sleet began falling late on the night of the 15th coating the area with a layer of ice by the morning rush. Numerous auto accidents occurred along with some power outages, and most area school were closed. Snow began by mid-morning of the 16th with 3 to 7 inches covering the area. |
| Cahokia | 3/28/1997 | Hail | 0.75 in. | 0 | 0 | 0 | Skywarn spotters reported 3/4 inch hail. |
| St. Clair | 4/10/1997 | Winter Storm | N/A | 0 | 0 | 0 | A spring snow storm caught many residents of west and southwest Illinois by surprise the morning and afternoon of April 10. 2 to 4 inches of snow fell in west Illinois in the Quincy area with up to 6 inches falling in southwest Illinois adjacent to St. Louis. Numerous outdoor activities were cancelled and some trees were damaged by the heavy wet snow. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|----------|-------|--------|-----------------|---|
| St. Clair | 4/30/1997 | High Wind | 45 kts. | 0 | 0 | 0 | West to northwest winds of 30 to 40 with gusts in excess of 50 blew in behind a cold front causing widespread damage. Most damage was limited to trees, power lines, outbuildings, and signs. Some roofs lost shingles as well. |
| Collinsville | 4/30/1997 | Tstm Wind | 52 kts. | 0 | 0 | 0 | Amateur radio spotters reported trees and power lines down near Collinsville. |
| Fayetteville | 6/6/1997 | Hail | 1.00 in. | 0 | 0 | 0 | County sheriff reported 1 inch hail. |
| Fayetteville | 6/6/1997 | Tstm Wind | 50 kts. | 0 | 0 | 5K | County sheriff reported thunderstorm wind gusts downed trees and power lines. A mobile home also suffered minor damage. |
| Belleville | 6/13/1997 | Tstm Wind | 50 kts. | 0 | 0 | 4K | Thunderstorm wind gusts downed some trees and power lines across the area. One car has minor damage from a downed tree. About 4000 customers of Illinois Power were without power for a couple of hours across the metro east area. |
| Summerfield | 6/21/1997 | Tstm Wind | 50 kts. | 0 | 0 | 4K | Thunderstorm wind gusts blew down truck barn at a local trucking company. One tractor cab in the barn suffered about \$2,000.00 in damage. A couple of grain silos and power poles in the area were also damaged. |
| Millstadt | 6/21/1997 | Tstm Wind | 61 kts. | 0 | 0 | 10K | Wind gusts estimated at 70 mph downed trees and some power poles. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|--------------|----------|-------|--------|-----------------|---|
| Freeburg | 6/21/1997 | Tstm Wind | 65 kts. | 0 | 0 | 50K | Wind gusts estimated at 75 mph downed trees, power lines, and damaged roofs. The roof of one business was completely blown off. |
| Lenzburg | 6/21/1997 | Tstm Wind | 61 kts. | 0 | 0 | 0 | Wind gusts estimated at 70 mph downed trees and power lines across town. |
| Marissa | 6/21/1997 | Tstm Wind | 61 kts. | 0 | 0 | 0 | Wind gusts downed trees and power lines. |
| St. Clair | 6/22/1997 | Flash Flood | N/A | 0 | 0 | 0 | Heavy rain of 3 to 4 inches flooded county roads across the area. Silver Creek rose out of its banks flooding roads in St. Clair County, particularly between Freeburg and New Athens. |
| St. Clair | 1/12/1998 | Winter Storm | N/A | 0 | 0 | 0 | Freezing drizzle put a thin coating of ice on area roads causing widespread early morning travel problems. The hardest hit areas were just north of the St. Louis Metro area, including parts of Madison, Calhoun, and Jersey counties. |
| St. Clair | 1/22/1998 | Winter Storm | N/A | 0 | 0 | 0 | A snowstorm dropped from 2 to 4 inches of snow across parts of Southwest Illinois. The snow caused some traffic problems mainly early in the morning. |
| Millstadt | 4/13/1998 | Hail | 1.00 in. | 0 | 0 | 0 | 1 inch hail was reported in Millstadt. |
| Belleville | 4/13/1998 | Hail | 0.75 in. | 0 | 0 | 0 | Severe storm spotters reported 3/4 inch hail in Belleville and Freeburg. |
| Freeburg | 4/13/1998 | Hail | 0.75 in. | 0 | 0 | 0 | Severe storm spotters reported 3/4 inch hail in Belleville and Freeburg. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|----------|-------|--------|-----------------|---|
| Marissa | 4/15/1998 | Hail | 1.75 in. | 0 | 0 | 0 | Golf ball size hail fell for several minutes in Marissa. |
| Freeburg | 4/15/1998 | Hail | 1.75 in. | 0 | 0 | 0 | Spotters reported golf ball size hail fell for several minutes. |
| Marissa | 4/15/1998 | Tornado | F0 | 0 | 0 | 0 | The Marissa Fire Chief reported a small tornado near the fire station. Damage consisted of a few downed trees, the bleachers at a baseball field were destroyed, and a trash dumpster was blown into the side of a building breaking some bricks. |
| Smithton | 4/15/1998 | Tornado | F0 | 0 | 0 | 0 | A small tornado initially touched down southeast of Waterloo and then moved northeast leaving an intermittent damage path, which primarily consisted of downed trees. A parked ambulance was overturned at the intersection of Highways 159 and 156 near Hecker. The tornado moved along the Kaskaskia River downing trees finally dissipating near Fayetteville. |
| Freeburg | 5/21/1998 | Hail | 0.75 in. | 0 | 0 | 0 | City officials reported 3/4 inch hail in Freeburg and power lines down in O'Fallon. |
| O Fallon | 5/21/1998 | Tstm Wind | 54 kts. | 0 | 0 | 0 | City officials reported 3/4 inch hail in Freeburg and power lines down in O'Fallon. |
| Centerville | 5/23/1998 | Tstm Wind | 51 kts. | 0 | 0 | 0 | The County Sheriff reported wind gusts around 60 mph which caused some tree and minor roof damage. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|---------|-------|--------|-----------------|---|
| O Fallon | 5/23/1998 | Tstm Wind | 55 kts. | 0 | 0 | 0 | The County Sheriff reported trees and power lines down just east of O'Fallon. Freeburg officials reported trees and power lines down around town. Trees were also downed on the west side of Lebanon. |
| Freeburg | 5/23/1998 | Tstm Wind | 55 kts. | 0 | 0 | 0 | The County Sheriff reported trees and power lines down just east of O'Fallon. Freeburg officials reported trees and power lines down around town. Trees were also downed on the west side of Lebanon. |
| Lebanon | 5/23/1998 | Tstm Wind | 55 kts. | 0 | 0 | 0 | The County Sheriff reported trees and power lines down just east of O'Fallon. Freeburg officials reported trees and power lines down around town. Trees were also downed on the west side of Lebanon. |
| Freeburg | 6/18/1998 | Tstm Wind | 64 kts. | 0 | 0 | 0 | Thunderstorm wind gusts around 75 mph were recorded at the Freeburg Emergency Operations Center. Trees and utility lines were downed across town. The City's communication tower was also bent by the wind. In Mascoutah, some power poles were downed along Highway 177. A tractor-trailer was blown over at the Belle Valley Industrial Park. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|----------------|----------|-------|--------|-----------------|---|
| Mascoutah | 6/18/1998 | Tstm Wind | 60 kts. | 0 | 0 | 0 | Thunderstorm wind gusts around 75 mph were recorded at the Freeburg Emergency Operations Center. Trees and utility lines were downed across town. The City's communication tower was also bent by the wind. In Mascoutah, some power poles were downed along Highway 177. A tractor-trailer was blown over at the Belle Valley Industrial Park. |
| Smithton | 6/20/1998 | Hail | 0.75 in. | 0 | 0 | 0 | The County Sheriff reported 3/4 inch hail at Smithton. Storm spotters reported trees down near Marissa. |
| Marissa | 6/20/1998 | Tstm Wind | 55 kts. | 0 | 0 | 0 | The County Sheriff reported 3/4 inch hail at Smithton. Storm spotters reported trees down near Marissa. |
| St. Clair | 6/23/1998 | Excessive Heat | N/A | 1 | 122 | 0 | The first heat wave of the summer caused 1 death and over 120 heat related injuries. The bulk of the injuries in Madison County occurred at an NHRA drag racing event that was held at Gateway International Raceway June 25-28. The 1 death occurred in East St. Louis, St. Clair County. M71PH |
| St. Clair | 7/3/1998 | Hail | 0.75 in. | 0 | 0 | 0 | Thunderstorm wind gusts downed a few trees along Highway 157. 3/4 inch hail was reported at Bi-State Parks Airport. |
| Cahokia | 7/3/1998 | Tstm Wind | 50 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed a few trees along Highway 157. 3/4 inch hail was reported at Bi-State Parks Airport. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|----------------------|---------|-------|--------|-----------------|--|
| St. Clair | 7/18/1998 | Excessive Heat | N/A | 0 | 19 | 0 | High temperatures in the middle to upper 90s along with Heat Index readings around 110 resulted in some heat related injuries in Madison and St. Clair counties. |
| Fairview Hgts | 7/22/1998 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed several trees. |
| Dupo | 7/22/1998 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed some trees. |
| St. Clair | 7/30/1998 | Urban/sml Stream Fld | N/A | 0 | 0 | 0 | Rainfall of 2 to 3 inches caused some minor flooding across the area. A few roads were closed for short periods due to the flooding. One of the harder hit areas was the town of Mitchell, in Madison County. Several roads had to be closed into the next day due to an overflowing drainage creek. |
| St. Clair | 8/5/1998 | Urban/sml Stream Fld | N/A | 0 | 0 | 0 | Rainfall of 3 to 4 inches overnight caused some flooding across the area. Water was reported over Route 159 south of Hecker in Monroe County and some street flooding was reported in Millstadt in St. Clair County. Flooding was also reported along Plum Creek east of Okawville in Washington County. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|-------------|---------|-------|--------|-----------------|--|
| West Portion | 8/18/1998 | Flash Flood | N/A | 0 | 0 | 0 | Rainfall up to 4 inches created havoc during the morning rush hour as streets quickly flooded. Interstate 64 in East St. Louis had to be closed, as did Metrolink, the area light rail mass transit system. Route 203 in southwest Madison County also had to be closed. A woman in East St. Louis had to be rescued from her vehicle when her car stalled in high water under a railroad trestle. The water later rose to the roof of the car. The water was up to car door level on other streets in East St. Louis. |
| Belleville | 8/31/1998 | Tstm Wind | 51 kts. | 0 | 0 | 0 | Thunderstorm wind gusts reported around 60 mph downed some trees and power lines in the Belleville area. Illinois Power reported about 2000 customers lost power due to the damage. |
| East St Louis | 11/10/1998 | Tstm Wind | 56 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed trees and power lines. Some vehicles were damaged by the falling trees and large limbs. |
| Belleville | 11/10/1998 | Tstm Wind | 56 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed trees and power lines. Some vehicles were damaged by the falling trees and large limbs. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|---------------------------|-------------|--------------|------------|--------------|---------------|------------------------|--|
| St. Clair | 12/21/1998 | Winter Storm | N/A | 0 | 0 | 0 | Winter came in with a vengeance, appropriately enough, on the 1st day of winter across west and southwest Illinois. A strong cold front brought the first blast of Arctic air to the state. This was quite a shock for many people as temperatures previously in the month had been quite mild, with highs ranging from the 50s to the 70s. Light freezing drizzle, sleet and snow came in with the cold front. Roads across much of the area became covered with a thin coating of ice by the morning rush hour on the 21st. Automobile accidents were numerous. Temperatures the night/morning of the 21st/22nd dropped into the single digits in most areas and only rose into the teens on the 22nd. |
| St. Clair | 1/1/1999 | Winter Storm | N/A | 0 | 0 | 0 | The new year started with a vengeance weather wise as a major winter storm hit the area. Snowfall across the area ranged from 6 to 14 inches. To make matters worse, about an inch of freezing rain and sleet fell during the middle of the storm, creating a rock hard layer of ice that was very difficult to move. Transportation across the area came to a stop for much of the holiday weekend. Very cold temperatures after the storm kept conditions icy into next week, keeping most area schools closed through the middle of the week. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|--------------|----------|-------|--------|-----------------|---|
| St. Clair | 1/13/1999 | Ice Storm | N/A | 0 | 0 | 0 | An ice storm struck the area leaving at least a 1/4 inch coating of ice. Some trees and power lines were downed, but overall damage was relatively minor. The major problem was the ice covered roads that made travel difficult to impossible. Area schools were closed through the end of the week. |
| Mascoutah | 2/11/1999 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Storm spotters reported trees down. |
| O Fallon | 2/27/1999 | Hail | 1.00 in. | 0 | 0 | 0 | Storm spotters reported 1 inch hail in O'Fallon. |
| St. Clair | 3/13/1999 | Winter Storm | N/A | 0 | 0 | 0 | A late winter snow storm dropped from 2 to 13 inches of snow across parts of southwest Illinois. The band of heavy snow had a rather sharp northern edge. For example, north Monroe County reported 2 inches while the south part of the county picked up 6. Northwest Washington County received 1 inch of snow while the southeast corner picked up 4 inches. Randolph County received the most with amounts ranging from 8 to 13 inches. |
| Millstadt | 4/10/1999 | Tstm Wind | 50 kts. | 0 | 0 | 0 | Thunderstorm wind gusts blew down a chimney in Millstadt. Power lines were also downed just north of town. |
| Millstadt | 4/10/1999 | Tstm Wind | 50 kts. | 0 | 0 | 2K | Thunderstorm wind gusts blew down a chimney in Millstadt. Power lines were also downed just north of town. |
| Fairview Hgts | 6/4/1999 | Hail | 0.75 | 0 | 0 | 0 | Storm spotters reported 3/4 inch hail. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|----------|-------|--------|-----------------|---|
| | | | in. | | | | |
| Cahokia | 6/8/1999 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed some large trees and damaged the roof of a building. |
| Belleville | 6/11/1999 | Hail | 0.75 in. | 0 | 0 | 0 | The County Sheriff reported 3/4 inch hail covering the ground north of Belleville. |
| Belleville | 6/11/1999 | Tstm Wind | 56 kts. | 0 | 0 | 0 | Thunderstorm wind gusts blew a large sign off the roof of a mall. Pieces of the sign blew onto the parking lot damaging at least 20 cars. Trees and power lines were downed in the Belleville area. |
| Fairview Hgts | 6/11/1999 | Tstm Wind | 56 kts. | 0 | 0 | 100K | Thunderstorm wind gusts blew a large sign off the roof of a mall. Pieces of the sign blew onto the parking lot damaging at least 20 cars. Trees and power lines were downed in the Belleville area. |
| Caseyville | 7/9/1999 | Tstm Wind | 52 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed some trees in Caseyville and Venice. One home in Venice was damaged after being hit by large tree limbs. Power lines were downed in Cahokia. |
| Cahokia | 7/9/1999 | Tstm Wind | 52 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed some trees in Caseyville and Venice. One home in Venice was damaged after being hit by large tree limbs. Power lines were downed in Cahokia. |
| Venice | 7/9/1999 | Tstm Wind | 52 kts. | 0 | 0 | 5K | Thunderstorm wind gusts downed some trees in Caseyville and Venice. One home in Venice was damaged after being hit by large tree limbs. Power lines were downed in Cahokia. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|----------------|----------|-------|--------|-----------------|--|
| St. Clair | 7/18/1999 | Excessive Heat | N/A | 8 | 119 | 0 | A heat wave gripped the region the last 2 weeks of July. Temperatures remained in the middle to upper 90s with a few days topping 100 degrees. The Heat Index ranged from 105 to near 115 degrees. Most of the deaths and injuries occurred in the Metro East area of St. Louis, primarily Madison and St. Clair counties. F86PH, M76MH, F88PH, F52PH, M74PH, M68PH, M80PH, F72PH |
| St. Clair | 1/28/2000 | Winter Storm | N/A | 0 | 0 | 0 | A steady light snow produced the first significant snow accumulation of the 1999-2000 winter season. Accumulations ranged from 3 -5 inches. |
| St. Clair | 3/11/2000 | Winter Storm | N/A | 0 | 0 | 0 | A late season snow fell across southwest Illinois with snow depths ranging from 3 to 10 inches. Thunderstorms occurred with the snow causing the wide range of depths reported. The following snow depths were reported by county: Montgomery 3, Monroe 4, Madison 4, Bond 4, Jersey 4-6, Clinton 6, Fayette 6, Randolph 6, Washington 6, Calhoun 6-10, Greene 6-10, and Marion with 10. By mid-afternoon the snow was already melting, and by Sunday afternoon it was virtually gone. |
| Fairmont City | 4/6/2000 | Hail | 0.75 in. | 0 | 0 | 0 | Local law enforcement officials reported hail up to golf ball size in the Fairmont City area. |
| Fairmont City | 4/6/2000 | Hail | 1.75 in. | 0 | 0 | 0 | Local law enforcement officials reported hail up to golf ball size in the Fairmont City area. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-------------|----------|-------|--------|-----------------|--|
| Millstadt | 4/7/2000 | Hail | 0.75 in. | 0 | 0 | 0 | Storm spotters and law enforcement personnel reported hail up to 1 inch in diameter. |
| Millstadt | 4/7/2000 | Hail | 1.00 in. | 0 | 0 | 0 | Storm spotters and law enforcement personnel reported hail up to 1 inch in diameter. |
| New Athens | 4/7/2000 | Hail | 1.00 in. | 0 | 0 | 0 | Storm spotters reported 1 inch hail. |
| Belleville | 4/16/2000 | Hail | 1.00 in. | 0 | 0 | 0 | Storm spotters reported 1 inch hail. |
| Freeburg | 4/16/2000 | Hail | 0.88 in. | 0 | 0 | 0 | Freeburg EMA reported nickel size hail. |
| Mascoutah | 5/12/2000 | Hail | 0.75 in. | 0 | 0 | 0 | Storm spotters reported 3/4 inch hail in Mascoutah. |
| Belleville | 6/14/2000 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Amateur radio spotters reported scattered trees down from Belleville to Freeburg to Mascoutah. |
| Freeburg | 6/14/2000 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Amateur radio spotters reported scattered trees down from Belleville to Freeburg to Mascoutah. |
| Mascoutah | 6/14/2000 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Amateur radio spotters reported scattered trees down from Belleville to Freeburg to Mascoutah. |
| St. Clair | 6/24/2000 | Flash Flood | N/A | 0 | 0 | 0 | Rainfall of 3 to 5 inches caused widespread flash flooding. Most creeks in the area flooded closing numerous roads. Highway 50 and 161 in Clinton County had to be closed for a while. Non-paved rural roads were damaged by water runoff. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|---------|-------|--------|-----------------|---|
| Millstadt | 6/24/2000 | Tornado | F1 | 0 | 2 | 0 | At approximately 240 pm CDT, a tornado formed west northwest of Millstadt near the intersection of Bluffside and Metter Roads. Several large trees were downed and a cattle barn extensively damaged. The tornado moved east northeast causing mainly tree and power line damage and then turned more east entering the Triple Lakes Golf Club. One home, 2 large utility buildings and the clubhouse suffered varying degrees of damage. The tornado became multiple vortex in nature at this point producing 2 distinct damage paths. Numerous large trees were uprooted or downed while the tornado continued through the golf course. The tornado continued on an east path downing trees and power lines, crossing Route 163 to about 2 1/4 miles northeast of Millstadt and dissipating. There were 2 minor injuries that occurred while the tornado went through the golf course. A man suffered a back injury when the golf cart he was riding in overturned. Another man suffered minor injuries from flying debris. |
| Mascoutah | 6/24/2000 | Tstm Wind | 52 kts. | 0 | 0 | 0 | Storm spotters reported trees down in Mascoutah. |
| Belleville | 6/24/2000 | Tstm Wind | 52 kts. | 0 | 0 | 0 | The County Sheriff reported trees down and a couple of storage buildings damaged east of town. |
| St. Clair | 6/26/2000 | Tstm Wind | 55 kts. | 0 | 0 | 0 | ASOS at Scott Air Force Base reported a wind gust of 63 miles per hour. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|----------|-----------|----------|-------|--------|-----------------|--|
| Dupo | 7/2/2000 | Hail | 0.88 in. | 0 | 0 | 0 | A severe thunderstorm dropped hail up to nickel size and caused wind damage across southwest St. Clair County. Trees and power lines were downed in Sauget and Dupo. In Cahokia at Parks Bi-State Airport, an aircraft hanger and a construction trailer were damaged. |
| Dupo | 7/2/2000 | Tstm Wind | 55 kts. | 0 | 0 | 0 | A severe thunderstorm dropped hail up to nickel size and caused wind damage across southwest St. Clair County. Trees and power lines were downed in Sauget and Dupo. In Cahokia at Parks Bi-State Airport, an aircraft hanger and a construction trailer were damaged. |
| Cahokia | 7/2/2000 | Tstm Wind | 55 kts. | 0 | 0 | 0 | A severe thunderstorm dropped hail up to nickel size and caused wind damage across southwest St. Clair County. Trees and power lines were downed in Sauget and Dupo. In Cahokia at Parks Bi-State Airport, an aircraft hanger and a construction trailer were damaged. |
| Sauget | 7/2/2000 | Tstm Wind | 55 kts. | 0 | 0 | 0 | A severe thunderstorm dropped hail up to nickel size and caused wind damage across southwest St. Clair County. Trees and power lines were downed in Sauget and Dupo. In Cahokia at Parks Bi-State Airport, an aircraft hanger and a construction trailer were damaged. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|----------------------|----------|-------|--------|-----------------|--|
| Centerville | 7/2/2000 | Tstm Wind | 55 kts. | 0 | 0 | 0 | A severe thunderstorm dropped hail up to nickel size and caused wind damage across southwest St. Clair County. Trees and power lines were downed in Sauget and Dupo. In Cahokia at Parks Bi-State Airport, an aircraft hanger and a construction trailer were damaged. |
| Marissa | 7/11/2000 | Tstm Wind | 52 kts. | 0 | 0 | 0 | The County Sheriff reported power lines down which fell on a train in Marissa. Storm spotters reported trees down just west of town. |
| Marissa | 7/11/2000 | Tstm Wind | 52 kts. | 0 | 0 | 0 | The County Sheriff reported power lines down which fell on a train in Marissa. Storm spotters reported trees down just west of town. |
| Fairview Hgts | 7/18/2000 | Urban/sml Stream Fld | N/A | 0 | 0 | 200K | Heavy rain caused some localized flooding in Fairview Heights. A 30 by 35 foot section of roof on a department store at a shopping mall collapsed under the weight of about 3 inches of rain. About a foot of water on Route 159 stranded several motorists. |
| Belleville | 8/6/2000 | Hail | 0.75 in. | 0 | 0 | 0 | Local law enforcement and storm spotters reported 3/4 inch hail west and northwest of Belleville. |
| Belleville | 8/6/2000 | Hail | 0.75 in. | 0 | 0 | 0 | Local law enforcement and storm spotters reported 3/4 inch hail west and northwest of Belleville. |
| Fairview Hgts | 8/6/2000 | Hail | 1.25 in. | 0 | 0 | 0 | The local news media reported half dollar size hail. |
| Caseyville | 8/17/2000 | Tstm Wind | 52 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed several trees. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|---------|-------|--------|-----------------|--|
| Fairview Hgts | 8/17/2000 | Tstm Wind | 61 kts. | 0 | 0 | 0 | Severe thunderstorms producing wind gusts around 70 mph downed numerous trees and power lines across the area. Illinois power reported up to 52,000 customers of the Metro East lost power during the storms. Scott Air Force Base measured a wind gust of 76 mph. |
| O Fallon | 8/17/2000 | Tstm Wind | 61 kts. | 0 | 0 | 0 | Severe thunderstorms producing wind gusts around 70 mph downed numerous trees and power lines across the area. Illinois power reported up to 52,000 customers of the Metro East lost power during the storms. Scott Air Force Base measured a wind gust of 76 mph. |
| Belleville | 8/17/2000 | Tstm Wind | 66 kts. | 0 | 0 | 0 | Severe thunderstorms producing wind gusts around 70 mph downed numerous trees and power lines across the area. Illinois power reported up to 52,000 customers of the Metro East lost power during the storms. Scott Air Force Base measured a wind gust of 76 mph. |
| Scott AFB | 8/17/2000 | Tstm Wind | 66 kts. | 0 | 0 | 0 | Severe thunderstorms producing wind gusts around 70 mph downed numerous trees and power lines across the area. Illinois power reported up to 52,000 customers of the Metro East lost power during the storms. Scott Air Force Base measured a wind gust of 76 mph. |
| Lebanon | 8/17/2000 | Tstm Wind | 61 kts. | 0 | 0 | 0 | Thunderstorm wind gusts estimated at 70 mph flattened a corn field near Lebanon. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|------------|---------|-------|--------|-----------------|--|
| St. Clair | 8/17/2000 | Tstm Wind | 50 kts. | 0 | 0 | 0 | ASOS at Parks Bi-State Airport recorded a 58 mph wind gust. |
| Swansea | 8/17/2000 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed numerous trees and power lines across the area. |
| Belleville | 8/17/2000 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed numerous trees and power lines across the area. |
| Freeburg | 8/17/2000 | Tstm Wind | 50 kts. | 0 | 0 | 0 | Some large tree limbs were broken by thunderstorm wind gusts. One home suffered a hole in the roof after being hit by a large limb. |
| St. Clair | 12/13/2000 | Heavy Snow | N/A | 0 | 0 | 0 | This first major winter storm of the season hit the region dropping from 6 to 10 inches of snow. Some schools in rural areas remained closed into the middle of next week as temperatures remained very cold and a couple of minor snowfalls kept traveling conditions poor. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|-------------------|-----|-------|--------|-----------------|--|
| St. Clair | 12/16/2000 | Extreme Windchill | N/A | 1 | 0 | 0 | A strong cold front moved across the area the afternoon of December 16 bringing in a blast of Arctic air. Temperatures by 900 pm on the 16th had dropped into the single digits with wind chill values down to 30 below zero. The wind chill remained from 20 below to 40 below zero through Noon on the 17th. An elderly man, from Springfield, IL, suffering from the early stages of Alzheimer's Disease, died in the cold. He left his home on the 16th, apparently become disoriented and headed south into Macoupin County. He was found in an open field on the 20th. M79OU |
| St. Clair | 1/26/2001 | Winter Storm | N/A | 0 | 0 | 0 | Light rain began falling during the early morning hours of January 26 resulting in a thin coating of ice on area roads by the morning drive time. Most schools across the area were closed and numerous traffic accidents were reported. By mid-morning temperatures had risen above freezing and the ice was gone. |
| Paderborn | 2/24/2001 | Lightning | N/A | 1 | 0 | 0 | A man was killed on his farm near Paderborn by an apparent lightning strike. Authorities believe he was trying to move some cattle inside when the lightning struck, killing him instantly. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|---------|-------|--------|-----------------|--|
| St. Clair | 2/25/2001 | High Wind | 40 kts. | 0 | 0 | 0 | Strong gradient winds from a deep low pressure system over the upper Midwest produced winds of 30 to 35 mph with gusts from 45 to 50 mph across the region. Minor tree, power line, and roof damage was common across the area. |
| St. Clair | 3/13/2001 | High Wind | 45 kts. | 0 | 0 | 0 | A strong low pressure system moving across the Great Lakes made for a windy day across the region. Winds were generally 20 to 40 mph with gusts from 40 to 50 mph. Scattered reports of tree, roof shingle and sign damage were common across the area. |
| Belleville | 4/9/2001 | Tstm Wind | 51 kts. | 0 | 0 | 0 | A 60-foot oak tree was blown onto a home by thunderstorm winds in Belleville. The roof and one wall were damaged. |
| St. Clair | 5/19/2001 | Flood | N/A | 0 | 0 | 0 | The Mississippi River rose over its banks for a few days in St. Clair County across from St. Louis. A few roads right along the river bank went underwater, otherwise there was no damage. Location Flood Stage Crest St. Louis 30 ft 30.6 ft on 5/21/01 |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|----------------|-----|-------|--------|-----------------|--|
| St. Clair | 6/4/2001 | Flood | N/A | 0 | 0 | 0 | Fed primarily by water from a flooding Missouri River, the Mississippi River from its confluence with the Missouri south to Chester, Il also flooded. On average, the river crested about 6 feet over flood stage at most locations. Many roads along the river were flooded as was farmland on the inside of levees. All levees along the river held and none were overtopped. Parts of the floodgate along the river in St. Louis were closed, primarily as a precaution and to keep people out of the flooded riverfront streets. |
| St. Clair | 6/19/2001 | Excessive Heat | N/A | 1 | 0 | 0 | An Alorton man was found dead in his home. The County Coroner ruled the cause of death as heat exhaustion. The temperature inside the house was well over 100 degrees. High temperatures on the 17th and 18th were in the lower to middle 90s with the Heat Index around 100. |
| St. Clair | 7/7/2001 | Excessive Heat | N/A | 0 | 0 | 0 | The first real heat wave of the summer hit the area July 7 through July 10. Temperatures peaked in the middle to upper 90s with the Heat index ranging from 105 to 110. |
| St. Clair | 7/17/2001 | Excessive Heat | N/A | 0 | 0 | 0 | A one day heat wave hit on July 17 as the temperature climbed into the lower to middle 90s. The very humid conditions pushed the Heat Index into the 110 to 115 range. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|----------------|---------|-------|--------|-----------------|---|
| O Fallon | 7/17/2001 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Local law enforcement reported numerous trees and power lines down in the O'Fallon and Belleville areas. |
| Belleville | 7/17/2001 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Local law enforcement reported numerous trees and power lines down in the O'Fallon and Belleville areas. |
| Belleville | 7/19/2001 | Flash Flood | N/A | 0 | 0 | 0 | Rainfall of 3 to 4 inches caused flooding across parts of Madison, St. Clair and Randolph counties, particularly in the Alton, Belleville and Red Bud areas. Numerous roads had to be temporarily closed due to high water. |
| St. Clair | 7/29/2001 | Excessive Heat | N/A | 0 | 0 | 0 | The 3rd mini heat wave of the month hit on July 29 through 31 and continued into early August. High temperatures hit the lower to middle 90s with the humidity pushing the Heat Index to the 105 to 110 range. |
| St. Clair | 8/1/2001 | Excessive Heat | N/A | 0 | 0 | 0 | The heat wave from late July continued into early August. High temperatures were in the middle 90s with the Heat Index around 105. |
| St. Clair | 8/7/2001 | Excessive Heat | N/A | 0 | 0 | 0 | A second early August Heat Wave hit the area. High temperatures ranged from the lower to upper 90s with the Heat Index from 102 to 110. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|----------------|---------|-------|--------|-----------------|--|
| St. Clair | 8/21/2001 | Excessive Heat | N/A | 0 | 0 | 0 | The last heat wave of the summer hit the area for a couple of days. Temperatures were the hottest of the summer with highs in the middle 90s to around 100. The Heat Index ranged from 105 to 110. |
| St. Clair | 8/24/2001 | Tstm Wind | 61 kts. | 0 | 0 | 0 | A 70 mph wind gust was measured at Scott Air Force Base. Some trees were downed and there was minor roof damage. |
| Cahokia | 8/25/2001 | Tstm Wind | 53 kts. | 0 | 0 | 0 | The County Sheriff reported trees down blocking a road in Cahokia. |
| Belleville | 8/25/2001 | Tstm Wind | 55 kts. | 0 | 0 | 0 | The County Sheriff reported trees down in Belleville and between Mascoutah and Freeburg. |
| Mascoutah | 8/25/2001 | Tstm Wind | 55 kts. | 0 | 0 | 0 | The County Sheriff reported trees down in Belleville and between Mascoutah and Freeburg. |
| Dupo | 9/8/2001 | Tstm Wind | 60 kts. | 0 | 0 | 0 | The Sheriff's department reported trees down. |
| East St Louis | 9/8/2001 | Tstm Wind | 65 kts. | 0 | 0 | 600K | Thunderstorm wind gusts of 75 to 80 mph hit the RV park at the Casino Queen overturning 6 recreational vehicles. Nine people were injured. Six were treated for minor injuries and released and 3 were kept overnight for observation. One of the RV's was overturned onto a vehicle, destroying both. |
| Belleville | 9/8/2001 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed trees and power lines in the Belleville area. Illinois Power estimated power was knocked out to 7000 customers. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|--------------|---------|-------|--------|-----------------|---|
| Sauget | 10/24/2001 | Tstm Wind | 60 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed some trees and damaged an empty rail car. |
| Belleville | 10/24/2001 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Storm spotters reported trees and power lines down. |
| Belleville | 10/24/2001 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Thunderstorm wind gusts knocked down trees and power lines in the Belleville and Fairview Heights areas. Illinois Power reported at least 2500 people were without electricity due to the storm. |
| Fairview Hgts | 10/24/2001 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Thunderstorm wind gusts knocked down trees and power lines in the Belleville and Fairview Heights areas. Illinois Power reported at least 2500 people were without electricity due to the storm. |
| Mascoutah | 10/24/2001 | Tstm Wind | 51 kts. | 0 | 0 | 5K | Wind gusts downed a tree which fell on a parked school bus causing minor roof damage. No one was on the bus at the time. |
| St. Clair | 2/25/2002 | Winter Storm | N/A | 0 | 0 | 0 | Snowfall of 1 to 4 inches fell across the area from the night of February 25 through the morning of February 26. Most of the snow had ended by sunrise on the 26th, however strong northwest winds caused some blowing and drifting snow until about Noon. Most schools across the area were closed in the 26th. The snow was blamed as the cause of numerous auto accidents. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|----------|-------|--------|-----------------|---|
| St. Clair | 3/9/2002 | High Wind | 43 kts. | 0 | 0 | 0 | Strong winds behind a cold front rocked the region Saturday. Wind gusts of 40 to 50 mph were common across the region. Area electric companies reported scattered power poles and power lines down across the area. An estimated 25,000 customers lost power at various times in the Metro East area of St. Louis. There was also scattered damage to trees, billboards and street signs. |
| Marissa | 4/12/2002 | Hail | 0.75 in. | 0 | 0 | 0 | Storm spotters reported 3/4 inch hail. |
| Marissa | 4/12/2002 | Hail | 0.75 in. | 0 | 0 | 0 | Storm spotters reported 3/4 inch hail. |
| Freeburg | 4/21/2002 | Tstm Wind | 54 kts. | 0 | 0 | 0 | The Freeburg EMA reported wind gusts to 62 mph. Large tree limbs were broken off of trees. |
| Millstadt | 4/27/2002 | Hail | 0.75 in. | 0 | 0 | 0 | Amateur radio spotters reported 3/4 inch hail. |
| Belleville | 4/27/2002 | Hail | 1.00 in. | 0 | 0 | 0 | Wind instruments at Scott Air Force Base recorded a wind gust of 71 mph. Storm spotters reported 1 inch hail. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|---------|-------|--------|-----------------|---|
| Shiloh | 4/27/2002 | Tornado | F1 | 0 | 0 | 0 | Around 1035 pm CDT, a tornado formed just southwest of Shiloh and started to cause damage. The worst damage occurred along Rio Verde Drive where 23 homes sustained some degree of damage. Two large buildings at the Yorktown Golf Club were also damaged. The tornado continued northeast crossing the intersections of Wendy Way and Goalby and Wendy Way and Anderson Lane. A number of homes sustained roof damage in this area with a number of trees uprooted or snapped off. The tornado caused minor roof damage to Whiteside Elementary School. A total of 34 homes along the path sustained some type of damage. |
| St. Clair | 4/27/2002 | Tstm Wind | 62 kts. | 0 | 0 | 0 | Wind instruments at Scott Air Force Base recorded a wind gust of 71 mph. Storm spotters reported 1 inch hail. |
| St. Clair | 4/28/2002 | Flood | N/A | 0 | 0 | 0 | Heavy rain during the last week in April pushed the Kaskaskia River out of its banks. The flooding was relatively minor, but continued and worsened in May. |
| St. Clair | 5/1/2002 | Flood | N/A | 0 | 0 | 0 | Heavy rain during May kept the Kaskaskia River over flood stage most of the time. The river did drop below flood stage at Vandalia, IL on May 19, but remained in flood through the month at most other locations. Highway 51 from Vandalia to Salem had to be closed for a while due to the flooding. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|----------|-----------|---------|-------|--------|-----------------|--|
| St. Clair | 5/1/2002 | Flood | N/A | 0 | 0 | 0 | The Mississippi River started the month in flood at most locations, dropped below flood stage briefly early in the month, then rose again for most of the remainder of May due to several heavy rain events. Flooding along the river ranged from about 5 feet to about 12 feet over flood stage. The primary problem caused by the flooding was inconveniences created by closed roads. The west bound lanes of Highway 67 in St. Charles County, MO had to be closed by high water. This created a 1 hour detour for people in Illinois wanting to travel into Missouri. The main business affected by the flooding was tourism. Riverfront attractions in many cities had to shut down for a while due to the flooding. Damage to homes was virtually nonexistent due to relocations and buyouts after the Great Flood of 1993. |
| New Athens | 5/7/2002 | Tstm Wind | 55 kts. | 0 | 0 | 0 | The St. Clair County Emergency Operations Center reported trees and power lines down with some homes damaged by downed trees. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-------------|-----|-------|--------|-----------------|--|
| St. Clair | 5/12/2002 | Flash Flood | N/A | 0 | 0 | 0 | Water was everywhere as heavy rain fell on Mother's Day weekend. Rainfall of 3 to 6 inches hit the area causing widespread flash flooding. Virtually all creeks and streams flooded on Sunday into Monday, with flooding continuing into the week. In Calhoun County, the water had dropped a bit after early morning rain, but quickly rose again due to afternoon and evening rain. Bridges were washed out and mud slides in some areas closed roads. In Greene County, there was significant road damage due to washed out sections of roads and embankment slides. In St. Clair County, especially the Belleville area, flooded basements were a major problem as storm water drainage systems were overwhelmed. Route 177 east of Mascoutah was covered by water. In Monroe County, many county roads were reported underwater. Many county roads were also reported flooded in Clinton, Marion and Washington counties. |
| Belleville | 6/10/2002 | Lightning | N/A | 0 | 1 | 0 | A man suffered minor injuries from a lightning strike. The lightning apparently struck a power pole he was walking by. He suffered minor bruises and burns on his neck. Power was knocked out to several nearby businesses. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|----------------|---------|-------|--------|-----------------|---|
| East St Louis | 6/10/2002 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Thunderstorm winds damaged large trees and some vehicles in a 20 block area between 69th and 89th street and north of State Street. |
| Lebanon | 6/11/2002 | Tstm Wind | 55 kts. | 0 | 1 | 0 | Thunderstorm wind gusts downed trees and power lines throughout the area. In Lebanon, a tree fell on a car on Route 4 causing minor injuries to the driver. Large trees, estimated to be 50 years old, were uprooted in Millstadt. Trees and power lines were reported down in several parts of Belleville. |
| Belleville | 6/11/2002 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed trees and power lines throughout the area. In Lebanon, a tree fell on a car on Route 4 causing minor injuries to the driver. Large trees, estimated to be 50 years old, were uprooted in Millstadt. Trees and power lines were reported down in several parts of Belleville. |
| Millstadt | 6/11/2002 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed trees and power lines throughout the area. In Lebanon, a tree fell on a car on Route 4 causing minor injuries to the driver. Large trees, estimated to be 50 years old, were uprooted in Millstadt. Trees and power lines were reported down in several parts of Belleville. |
| St. Clair | 7/8/2002 | Excessive Heat | N/A | 0 | 0 | 0 | High temperatures climbed into the middle to upper 90's with the Heat Indices from 105 to 110 degrees. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|----------------|---------|-------|--------|-----------------|--|
| St. Clair | 7/20/2002 | Excessive Heat | N/A | 0 | 0 | 0 | High temperatures climbed to the middle to upper 90's with the Heat Indices from 105 to near 115 degrees. St. Louis hit 100 on July 22. |
| Cahokia | 7/22/2002 | Lightning | N/A | 0 | 0 | 30K | A lightning strike started a fire which destroyed a double wide mobile home in Cahokia. The woman resident along with her 3 dogs and 2 cats escaped without injury. |
| Fairview Hgts | 7/22/2002 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Amateur radio spotters reported trees and power lines down in Fairview Heights, O'Fallon and Mascoutah. |
| O Fallon | 7/22/2002 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Amateur radio spotters reported trees and power lines down in Fairview Heights, O'Fallon and Mascoutah. |
| Mascoutah | 7/22/2002 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Amateur radio spotters reported trees and power lines down in Fairview Heights, O'Fallon and Mascoutah. |
| St. Clair | 7/26/2002 | Excessive Heat | N/A | 0 | 0 | 0 | High temperatures climbed into the middle to upper 90's with the Heat Indices from 105 to near 115 degrees. There was a one day break in the heat as a weak cold front dropped temperatures back into the upper 80's on July 29. However temperatures quickly rebounded and remained high into August. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|----------------|-----|-------|--------|-----------------|---|
| St. Clair | 8/1/2002 | Excessive Heat | N/A | 0 | 0 | 0 | The hot temperatures from late July continued into early August. High temperatures were in the upper 90s to around 100 with the heat index from 105 to 115. |
| St. Clair | 12/4/2002 | Winter Storm | N/A | 0 | 0 | 0 | It was a commuter's nightmare as the first winter storm of the season hit parts of Southwest Illinois. With temperatures in the middle 20's, the light snow immediately stuck to area roads as it started to fall around 6 am creating very slick conditions. With roads becoming crowded with people heading to work, the highway and road crews could not make much headway in terms of plowing or spreading salt. Traffic in the St. Louis Metropolitan area crawled along throughout the day. Area school busses were running up to 2 hours late in getting children to school. In some areas, accident reports were coming in at the rate of 30 to 40 an hour. Snowfall across the region ranged from 2 to 5 inches. |
| St. Clair | 12/24/2002 | Winter Storm | N/A | 0 | 0 | 0 | A Christmas Eve snowstorm hit parts of Southwest Illinois. Snowfall across the region ranged from 7 to 10 inches. While area children loved the Christmas snow, area adults had to deal with very difficult travel conditions. Many people had to stay home instead of visiting family and friends. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|--------------|----------|-------|--------|-----------------|--|
| St. Clair | 2/23/2003 | Winter Storm | N/A | 0 | 0 | 0 | Another winter storm produced snow across Southwest Illinois. Around 3 inches fell across the northern counties of the area with amounts near 6 inches across the south. |
| Fairview Hgts | 4/4/2003 | Hail | 0.75 in. | 0 | 0 | 0 | Storm spotters reported 3/4 inch hail. |
| Belleville | 4/4/2003 | Hail | 1.75 in. | 0 | 0 | 0 | Amateur radio spotters reported golf ball size hail. |
| Belleville | 4/4/2003 | Hail | 1.50 in. | 0 | 0 | 0 | The County Sheriff reported silver dollar size hail. |
| Lebanon | 4/4/2003 | Hail | 1.00 in. | 0 | 0 | 0 | Storm spotters reported 1 inch hail just south of Lebanon. |
| Fairview Hgts | 4/4/2003 | Hail | 1.00 in. | 0 | 0 | 0 | Storm spotters reported 1 inch hail. |
| Dupo | 4/4/2003 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Storm spotters reported several large trees and power lines down. |
| New Athens | 5/6/2003 | Hail | 1.00 in. | 0 | 0 | 0 | Amateur radio spotters reported hail up to golf ball size in the New Athens area. |
| New Athens | 5/6/2003 | Hail | 1.75 in. | 0 | 0 | 0 | Amateur radio spotters reported hail up to golf ball size in the New Athens area. |
| New Athens | 5/8/2003 | Hail | 0.75 in. | 0 | 0 | 0 | Amateur radio spotters relayed a report of 3/4 inch hail from the New Athens Fire Department. |
| Cahokia | 5/10/2003 | Hail | 1.00 in. | 0 | 0 | 0 | Amateur radio spotters reported 1 inch hail and a local television station reported golf ball size hail. |
| Dupo | 5/10/2003 | Hail | 1.75 in. | 0 | 0 | 0 | Amateur radio spotters reported 1 inch hail and a local television station reported golf ball size hail. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|---------|-----|-------|--------|-----------------|--|
| Dupo | 6/10/2003 | Tornado | F0 | 0 | 0 | 0 | <p>A tornado first caused damage just west of Highway 3 north of Dupo. The roof of one home was partially removed while several large trees were snapped at the base or uprooted. The roof of a nearby garage was also lifted off and tossed 80 yards across Highway 3. The next significant damage occurred along McBride Ave. Four homes suffered roof damage and four mobile homes were damaged with two of them considered destroyed. The tornado crossed Interstate 255 and blew over a tractor trailer truck. The final damage area was just east of I-255 along Stolle Road where several large trees were uprooted or snapped off at the base.</p> |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|---------|-----|-------|--------|-----------------|--|
| Caseyville | 6/10/2003 | Tornado | F2 | 0 | 2 | 0 | <p>A tornado first caused damage along the west side of the town of Caseyville, Illinois along Forest Blvd, just east of Interstate 255. Over twelve witnesses observed the tornado along the leading edge of the bowing squall line as they saw debris tossed several hundred feet into the air. The tornado traveled east southeast along Forest Blvd and West Lincoln Avenue. Three house trailers were severely damaged by the tornado between 85th and Black Lane. Two injuries occurred in two of the three house trailers. Numerous large trees were severed or downed by the tornado. The roof of a large machine shed on Black Lane was uplifted and displaced several hundred yards to the east. The tornado then ripped through an auto salvage area where several vehicles were over-turned, damaged or destroyed. The width of this damage area was 50 to 100 yards wide while damage intensity was rated F1. The tornado continued to travel just a bit south of due east causing damage to two homes and a camper and completely destroying another mobile home. Some of the remains of the mobile home were observed 3/4 mile to the east just west of Highway 157. Pieces of metal were wrapped around snapped power poles while one 2 x 4 board was driven into the front windshield of a pickup truck. The width of this damage area varied from 50 to 75 yards while the damage intensity was rated low-end F2. The tornado continued east</p> |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------|------|-----|-------|--------|-----------------|---|
| | | | | | | | <p>and showed a convergence pattern in a nearby wheat field south of West Lincoln Ave. The tornado then caused minor damage to six new homes 100 to 300 yards south of West Lincoln Ave and 1/4 to 1/2 mile west of Highway 159. Roofs from five homes were partially uplifted and tossed 200 to 400 yards downwind to the east. One home under construction was completely destroyed. The width of the damage area varied from 75 to 150 yards. The damage intensity was rated the lower end of F1. The tornado continued east up a ridge just east of Highway 157. Several large trees were snapped or uprooted just east of 157. Additional tree damage was found along Hill Road east of Highway 157. One home on Hill Road sustained minor roof damage. The tornado crossed East O'Fallon Drive and severed or uprooted several large trees. One home sustained minor roof damage while a machine shed and garage was severely damaged. The tornado damage track ended just west of Highway 159. Width of the damage area again varied from 75 to 100 yards while the damage intensity was rated at the lower end of F1.</p> |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|---------------------------|-------------|-------------|------------|--------------|---------------|------------------------|--|
| Paderborn | 6/10/2003 | Tornado | F0 | 0 | 0 | 0 | An aerial survey conducted by members of the BAMEX (Bow Echo and Mesoscale Convective Vortex Experiment) revealed a small tornado track that crossed into St. Clair County west of Paderborn. The damage occurred in a rural area and was limited to downed trees. |
| Belleville | 6/10/2003 | Tstm Wind | 78 kts. | 0 | 0 | 0 | A bow echo storm system created wind gusts up to 100 miles an hour across parts of the Metro East area. The result was numerous trees and power lines down. There was also some minor roof damage and some vehicles that were damaged by the falling trees. At Scott Air Force Base, the base weather station measured a wind gusts of 90 knots. Countless trees were downed or snapped off near the base. |
| St. Clair | 6/10/2003 | Tstm Wind | 90 kts. | 0 | 0 | 0 | A bow echo storm system created wind gusts up to 100 miles an hour across parts of the Metro East area. The result was numerous trees and power lines down. There was also some minor roof damage and some vehicles that were damaged by the falling trees. At Scott Air Force Base, the base weather station measured a wind gusts of 90 knots. Countless trees were downed or snapped off near the base. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|---------|-------|--------|-----------------|--|
| O Fallon | 6/10/2003 | Tstm Wind | 78 kts. | 0 | 0 | 0 | A bow echo storm system created wind gusts up to 100 miles an hour across parts of the Metro East area. The result was numerous trees and power lines down. There was also some minor roof damage and some vehicles that were damaged by the falling trees. At Scott Air Force Base, the base weather station measured a wind gusts of 90 knots. Countless trees were downed or snapped off near the base. |
| Shiloh | 6/10/2003 | Tstm Wind | 78 kts. | 0 | 0 | 0 | A bow echo storm system created wind gusts up to 100 miles an hour across parts of the Metro East area. The result was numerous trees and power lines down. There was also some minor roof damage and some vehicles that were damaged by the falling trees. At Scott Air Force Base, the base weather station measured a wind gusts of 90 knots. Countless trees were downed or snapped off near the base. |
| Swansea | 6/10/2003 | Tstm Wind | 78 kts. | 0 | 0 | 0 | A bow echo storm system created wind gusts up to 100 miles an hour across parts of the Metro East area. The result was numerous trees and power lines down. There was also some minor roof damage and some vehicles that were damaged by the falling trees. At Scott Air Force Base, the base weather station measured a wind gusts of 90 knots. Countless trees were downed or snapped off near the base. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-------------|---------|-------|--------|-----------------|--|
| Lebanon | 6/10/2003 | Tstm Wind | 70 kts. | 0 | 0 | 0 | Thunderstorm winds downed trees and power lines in Lebanon. Part of the roof of a gasoline/convenience store was blown off which resulted in water damage inside the store. Twelve power poles were damaged along Highway 4 just south of town. |
| Freeburg | 6/10/2003 | Tstm Wind | 61 kts. | 0 | 0 | 0 | Amateur radio spotters reported trees down, some of which fell on a couple of mobile homes. |
| Mascoutah | 6/10/2003 | Tstm Wind | 70 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed numerous trees and power lines across the area. |
| East Portion | 6/11/2003 | Flash Flood | N/A | 0 | 0 | 0 | Heavy rain caused flash flooding across parts of southwest Illinois. In St. Clair County, flooding was reported along Highway 4 in Lebanon and Mascoutah, along Highway 13 in Lenzberg, along Highway 159 in Smithton, and Highway 177 in Mascoutah. In Randolph County, flooding occurred along Highway 4 from Tilden to Sparta. In Clinton County, Highway 50 flooded near Aviston as did Highway 161 near Albers. In Washington County, Highway 15 flooded in the western part of the county. |
| St. Clair | 6/26/2003 | Flash Flood | N/A | 0 | 0 | 0 | Heavy rain caused street and road flooding across much of Madison and St. Clair Counties. Flooding was reported in Alton, Wood River, Edwardsville, and Belleville. In Wood River, mud slides occurred at a construction site resulting in roads being covered by up to 3 feet of mud. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|----------------|---------|-------|--------|-----------------|--|
| St. Clair | 7/3/2003 | Excessive Heat | N/A | 0 | 0 | 0 | The first heat wave of the summer hit the Metro East area starting on the 4th of July weekend. High temperatures during the period were in the middle 90s with the heat index around 105 degrees. |
| Belleville | 7/18/2003 | Tstm Wind | 55 kts. | 0 | 0 | 0 | The County Sheriff reported trees and power lines down. |
| Scott AFB | 8/4/2003 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Some large tree limbs were reported down between Belleville and Scott Air Force Base. |
| St. Clair | 8/15/2003 | Excessive Heat | N/A | 0 | 0 | 0 | A late summer heat wave hit the area just as most schools were opening. As a result many schools reduced their schedule to a half day while a few closed altogether. High temperatures were in the middle to upper 90s with Quincy hitting 100 on the 21st. Heat indices generally ranged from 105 to 110 degrees. |
| St. Clair | 8/24/2003 | Excessive Heat | N/A | 1 | 0 | 0 | After a brief cool down in which high temperatures dropped into the middle 80's to around 90 degrees, the heat returned to the area with highs pushing into the middle 90's to around 100 degrees. Heat indices were again in the 105 to 110 degree range. There was one death that was blamed on the heat. A 49 year old man died on the 26th from heat related causes in East St. Louis. M49OU |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|------------|---------|-------|--------|-----------------|--|
| Cahokia | 9/26/2003 | Lightning | N/A | 0 | 0 | 0 | An early morning fire at a propane facility in Cahokia was caused by a lightning strike. The lightning hit a manifold where two 10 inch high pressure lines converge. Flames were reported shooting 100 feet into the air. Shut off valves on the lines were closed, but since one valve was 3 miles away, the fire continued until early afternoon as the residual fuel in the line burned off. |
| Belleville | 9/26/2003 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Amateur radio spotters reported trees and power lines down in the western part of Belleville. |
| St. Clair | 11/17/2003 | Heavy Rain | N/A | 0 | 0 | 0 | Rainfall of 2 - 5 inches fell over a 12 to 24 hour period causing widespread flooding across Southwest Illinois. In the Metro East area across from St. Louis, flooded streets and highways were common. In Belleville, Richland Creek flooded filling the city's skateboard park with about 3 feet of water. Some local kayakers took advantage of the flooding and paddled around the park. Elsewhere in St. Clair County, Silver Creek flooded Route 177 in Mascoutah. Route 13 was also flooded in places. In Madison County, Route 4 was flooded in several locations near Edwardsville. In Macoupin County, Route 4 flooded near Benld and street flooding was reported in Bunker Hill. In Clinton County, water was reported to be 2 feet deep on some roads in Breese. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|--------------|----------|-------|--------|-----------------|---|
| St. Clair | 12/13/2003 | Winter Storm | N/A | 0 | 0 | 0 | The first snowfall of the 2003/2004 season fell across much of Southwest Illinois. Snowfall averaged 2 to 3 inches across the region. |
| St. Clair | 1/25/2004 | Winter Storm | N/A | 0 | 0 | 0 | A combination of freezing rain, sleet and snow fell bringing the region to a standstill. The event started with a period of freezing rain early Sunday morning. Some places received 1/4 to 1/2 inch of freezing rain. The freezing rain changed to sleet by mid-morning with some locations in Southwest Illinois receiving 1 to 2 inches of sleet. By afternoon, the sleet changed to snow and accumulated another 1 to 2 inches. Luckily it was a Sunday, as transportation was brought to a halt across the region. Many schools across the region were closed into mid-week as another fast moving storm brought another inch or two of snow Monday night and early Tuesday. |
| Belleville | 5/13/2004 | Lightning | N/A | 0 | 0 | 0 | Lightning was blamed for a fire at a two-story house in Belleville. |
| Floraville | 5/23/2004 | Hail | 0.88 in. | 0 | 0 | 0 | The County Sheriff reported nickel size hail. |
| Smithton | 5/23/2004 | Hail | 0.88 in. | 0 | 0 | 0 | The County Sheriff reported nickel size hail. |
| Belleville | 5/24/2004 | Tstm Wind | 52 kts. | 0 | 0 | 0 | The County Sheriff reported trees down across the area. A couple of trees were blown onto houses in Summerfield. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-------------|----------|-------|--------|-----------------|---|
| Lebanon | 5/24/2004 | Tstm Wind | 52 kts. | 0 | 0 | 0 | The County Sheriff reported trees down across the area. A couple of trees were blown onto houses in Summerfield. |
| Summerfield | 5/24/2004 | Tstm Wind | 52 kts. | 0 | 0 | 0 | The County Sheriff reported trees down across the area. A couple of trees were blown onto houses in Summerfield. |
| Lebanon | 5/26/2004 | Hail | 0.75 in. | 0 | 0 | 0 | Local law enforcement reported 3/4 inch hail near Lebanon. The public reported 3/4 inch hail on the north side of O'Fallon. |
| O Fallon | 5/26/2004 | Hail | 0.75 in. | 0 | 0 | 0 | Local law enforcement reported 3/4 inch hail near Lebanon. The public reported 3/4 inch hail on the north side of O'Fallon. |
| St. Clair | 5/27/2004 | Flash Flood | N/A | 0 | 0 | 0 | Rainfall of 2 to 4 inches caused flash flooding across the area. Flooding was reported in Fairview Heights, New Baden, Waterloo, and Salem. |
| Scott AFB | 5/27/2004 | Hail | 0.75 in. | 0 | 0 | 0 | Storm spotters reported 3/4 inch hail. |
| Mascoutah | 5/27/2004 | Hail | 0.75 in. | 0 | 0 | 0 | Storm spotters reported 3/4 inch hail. |
| New Athens | 5/27/2004 | Tstm Wind | 52 kts. | 0 | 0 | 0 | The public reported wind gusts around 60 mph with a few trees down. |
| Belleville | 5/30/2004 | Tstm Wind | 56 kts. | 0 | 0 | 0 | Storm spotters measured a 64 mph wind gust. In Cahokia, trees and power lines were down in several areas of town. |
| Cahokia | 5/30/2004 | Tstm Wind | 56 kts. | 0 | 0 | 0 | Storm spotters measured a 64 mph wind gust. In Cahokia, trees and power lines were down in several areas of town. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-------------|----------|-------|--------|-----------------|---|
| Scott AFB | 5/30/2004 | Tstm Wind | 84 kts. | 0 | 0 | 0 | ASOS at Scott Air Force Base measured wind gusts of 97 and 73 mph. Trees and power lines were down across the area. |
| Scott AFB | 5/30/2004 | Tstm Wind | 70 kts. | 0 | 0 | 0 | ASOS at Scott Air Force Base measured wind gusts of 97 and 73 mph. Trees and power lines were down across the area. |
| Scott AFB | 5/30/2004 | Tstm Wind | 63 kts. | 0 | 0 | 0 | ASOS at Scott Air Force Base measured wind gusts of 97 and 73 mph. Trees and power lines were down across the area. |
| Shiloh | 5/31/2004 | Tstm Wind | 55 kts. | 0 | 0 | 0 | The County Sheriff reported trees down in Shiloh. |
| Freeburg | 6/16/2004 | Hail | 0.88 in. | 0 | 0 | 0 | Local law enforcement reported nickel size hail just west of Freeburg and power lines down in town. |
| Freeburg | 6/16/2004 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Local law enforcement reported nickel size hail just west of Freeburg and power lines down in town. |
| East Portion | 7/5/2004 | Flash Flood | N/A | 0 | 0 | 0 | Heavy rain caused flash flooding primarily across the eastern portions of Madison and St. Clair counties. Streets were flooded and closed from Granite City south to Belleville and Fairview Heights. |
| Marissa | 7/5/2004 | Hail | 0.88 in. | 0 | 0 | 0 | Local law enforcement reported some trees down and nickel size hail. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|----------|-----------|---------|-------|--------|-----------------|--|
| O Fallon | 7/5/2004 | Tstm Wind | 60 kts. | 0 | 0 | 0 | A 69 mph wind gust was measured at Scott Air Force Base. Trees, and power lines were down in O'Fallon and some power poles were reported down in Shiloh. |
| Shiloh | 7/5/2004 | Tstm Wind | 60 kts. | 0 | 0 | 0 | A 69 mph wind gust was measured at Scott Air Force Base. Trees, and power lines were down in O'Fallon and some power poles were reported down in Shiloh. |
| Scott AFB | 7/5/2004 | Tstm Wind | 60 kts. | 0 | 0 | 0 | A 69 mph wind gust was measured at Scott Air Force Base. Trees, and power lines were down in O'Fallon and some power poles were reported down in Shiloh. |
| Lebanon | 7/5/2004 | Tstm Wind | 52 kts. | 0 | 0 | 0 | Storm spotters reported large tree limbs and power lines down. |
| Scott AFB | 7/5/2004 | Tstm Wind | 61 kts. | 0 | 0 | 0 | Wind gusts of 92 and 70 mph were reported at Scott Air Force Base. Trees and power lines were reported down in O'Fallon and Summerfield. |
| Scott AFB | 7/5/2004 | Tstm Wind | 80 kts. | 0 | 0 | 0 | Wind gusts of 92 and 70 mph were reported at Scott Air Force Base. Trees and power lines were reported down in O'Fallon and Summerfield. |
| O Fallon | 7/5/2004 | Tstm Wind | 75 kts. | 0 | 0 | 0 | Wind gusts of 92 and 70 mph were reported at Scott Air Force Base. Trees and power lines were reported down in O'Fallon and Summerfield. |
| Summerfield | 7/5/2004 | Tstm Wind | 70 kts. | 0 | 0 | 0 | Wind gusts of 92 and 70 mph were reported at Scott Air Force Base. Trees and power lines were reported down in O'Fallon and Summerfield. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|----------------|----------|-------|--------|-----------------|--|
| Freeburg | 7/5/2004 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Thunderstorm wind gusts downed some large tree limbs and power lines in Freeburg, One home suffered minor damage. |
| Smithton | 7/5/2004 | Tstm Wind | 55 kts. | 0 | 0 | 0 | A large elm tree was broken near the base and fell across a street in Smithton. Two cars parked on the street were damaged by large limbs. |
| Marissa | 7/5/2004 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Local law enforcement reported some trees down and nickel size hail. |
| Marissa | 7/5/2004 | Tstm Wind | 55 kts. | 0 | 0 | 0 | The local newspaper reported several large tree limbs and moderate size trees down from thunderstorm winds. |
| St. Clair | 7/9/2004 | Excessive Heat | N/A | 0 | 0 | 0 | The first real heat wave of the season hit the area from July 9 - 13. High temperatures reached the lower 90s on the 9th through 12th with the Heat Index around 105. On the 13th, the High at Lambert Field in St. Louis hit 97 with a Heat Index of 111. |
| St. Clair | 7/20/2004 | Excessive Heat | N/A | 0 | 0 | 0 | The second heat wave of a relatively cool summer hit the region from July 20 - 22. High temperatures were in the lower to middle 90's with the Heat Index ranging from 105 to 110 degrees. |
| Belleville | 7/22/2004 | Hail | 1.25 in. | 0 | 0 | 0 | Amateur radio spotters reported hail up to half dollar size on the east side of town and nickel size hail on the west side. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-------------|----------|-------|--------|-----------------|---|
| Belleville | 7/22/2004 | Hail | 0.88 in. | 0 | 0 | 0 | Amateur radio spotters reported hail up to half dollar size on the east side of town and nickel size hail on the west side. |
| Fairview Hgts | 7/22/2004 | Hail | 0.88 in. | 0 | 0 | 0 | Storm spotters reported nickel size hail in Fairview Heights. |
| St Libory | 8/19/2004 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Thunderstorm winds blew the roof off a large barn on Lenzburg East Road. The entire roof was blown off and all the interior walls blown down. The debris blew across a road downing several power lines. |
| Marissa | 8/19/2004 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Local law enforcement reported trees, power lines down and a machine shed damaged. |
| St. Clair | 1/5/2005 | Heavy Rain | N/A | 0 | 0 | 0 | Rainfall of 3 to 6 inches over the past 4 to 5 days caused general flooding across the area. Many small streams and creeks flooded throughout the region. Numerous roads were flooded and were closed due to the flooded streams or excessive ponding of water from the rain. |
| New Athens | 3/31/2005 | Hail | 0.75 in. | 0 | 0 | 0 | Storm spotters reported hail up to nickel size in the New Athens area. |
| New Athens | 3/31/2005 | Hail | 0.88 in. | 0 | 0 | 0 | Storm spotters reported hail up to nickel size in the New Athens area. |
| Floraville | 4/12/2005 | Flash Flood | N/A | 0 | 0 | 0 | Very heavy rain fell in a short amount of time over St. Clair County. This caused Kopp Creek, west of Floraville, to rise out of its banks for a time. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|---------|-------|--------|-----------------|--|
| Belleville | 5/19/2005 | Tstm Wind | 53 kts. | 0 | 0 | 0 | Local law enforcement reported trees and power lines down. One home in Cahokia was damaged by a downed tree. |
| Cahokia | 5/19/2005 | Tstm Wind | 53 kts. | 0 | 0 | 0 | Local law enforcement reported trees and power lines down. One home in Cahokia was damaged by a downed tree. |
| Freeburg | 6/8/2005 | Tstm Wind | 54 kts. | 0 | 0 | 0 | A severe thunderstorm produced wind damage in several towns across St. Clair County. Power lines were reported down in Freeburg and New Athens. Large tree limbs and power lines were down in O'Fallon, Belleville, and Marissa. |
| Belleville | 6/8/2005 | Tstm Wind | 54 kts. | 0 | 0 | 0 | A severe thunderstorm produced wind damage in several towns across St. Clair County. Power lines were reported down in Freeburg and New Athens. Large tree limbs and power lines were down in O'Fallon, Belleville, and Marissa. |
| New Athens | 6/8/2005 | Tstm Wind | 54 kts. | 0 | 0 | 0 | A severe thunderstorm produced wind damage in several towns across St. Clair County. Power lines were reported down in Freeburg and New Athens. Large tree limbs and power lines were down in O'Fallon, Belleville, and Marissa. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|----------------|---------|-------|--------|-----------------|---|
| O Fallon | 6/8/2005 | Tstm Wind | 54 kts. | 0 | 0 | 0 | A severe thunderstorm produced wind damage in several towns across St. Clair County. Power lines were reported down in Freeburg and New Athens. Large tree limbs and power lines were down in O'Fallon, Belleville, and Marissa. |
| Marissa | 6/8/2005 | Tstm Wind | 54 kts. | 0 | 0 | 0 | A severe thunderstorm produced wind damage in several towns across St. Clair County. Power lines were reported down in Freeburg and New Athens. Large tree limbs and power lines were down in O'Fallon, Belleville, and Marissa. |
| Belleville | 6/13/2005 | Funnel Cloud | N/A | 0 | 0 | 0 | A storm spotter reported 2 funnel clouds from a developing thunderstorm. The storm later produced wind gusts around 70 mph. |
| Belleville | 6/13/2005 | Tstm Wind | 62 kts. | 0 | 0 | 0 | A storm spotter measured a 71 mph wind gust. Some large tree limbs were down in the area. |
| Mascoutah | 6/13/2005 | Tstm Wind | 55 kts. | 0 | 0 | 0 | The local electric cooperative reported 4 power poles broken along Highway 177. |
| St. Clair | 6/23/2005 | Excessive Heat | N/A | 2 | 0 | 0 | The first heat wave of the season hit in late June and resulted in two deaths in the Metro East. A 70 year old woman died in Alton and a 48 year old man in Centreville. Both were found in their homes with no air conditioning. High temperatures during the period were in the lower to upper 90's. The heat index ranged from 100 to around 105. F70PH, M48PH |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|----------|-----------|---------|-------|--------|-----------------|---|
| Belleville | 7/4/2005 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Storm spotters reported numerous trees and tree limbs down, and some power lines down due to the fallen tree limbs in parts of Belleville, Mascoutah, and Freeburg. A subsequent damage survey done by NWS personnel discovered a downburst near the intersection of Highway 13 and Green Mountain Road about 2 miles south of Belleville. Several acres of corn was flattened by wind. |
| Mascoutah | 7/4/2005 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Storm spotters reported numerous trees and tree limbs down, and some power lines down due to the fallen tree limbs in parts of Belleville, Mascoutah, and Freeburg. A subsequent damage survey done by NWS personnel discovered a downburst near the intersection of Highway 13 and Green Mountain Road about 2 miles south of Belleville. Several acres of corn was flattened by wind. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|----------------|---------|-------|--------|-----------------|---|
| Freeburg | 7/4/2005 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Storm spotters reported numerous trees and tree limbs down, and some power lines down due to the fallen tree limbs in parts of Belleville, Mascoutah, and Freeburg. A subsequent damage survey done by NWS personnel discovered a downburst near the intersection of Highway 13 and Green Mountain Road about 2 miles south of Belleville. Several acres of corn was flattened by wind. |
| St. Clair | 7/20/2005 | Excessive Heat | N/A | 1 | 0 | 0 | The first significant heat wave of several years hit all of west central, southwest, and south central Illinois. Quincy hit 100 degrees or higher 4 times during the period and had a Heat Index reading of 121 degrees on July 23rd. The Metro East area of St. Louis saw temperatures top out at 100 or higher on 3 consecutive days, from 7/24 to 7/26. One death was officially attributed to the heat. A 73 year old man in Cahokia was found dead in his home on July 25th. M73PH |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|----------|-------|--------|-----------------|---|
| St. Clair | 8/1/2005 | Drought | N/A | 0 | 0 | 0 | Drought conditions improved for some counties of southern Illinois but remained serious for much of west central Illinois. Most of the counties immediately east and south of the St. Louis area were raised to D0 status (abnormally dry). However, west central Illinois remained in D3 status (extreme drought). |
| Belleville | 8/10/2005 | Hail | 0.88 in. | 0 | 0 | 0 | Emergency management officials reported nickel size hail and some large trees down along Highway 15 near the Our Lady of the Snows Shrine. |
| Cahokia | 8/10/2005 | Tstm Wind | 57 kts. | 0 | 0 | 0 | Thunderstorm wind gusts caused scattered wind damage across the area. Trees were reported down near Dupo and Cahokia. A large metal sign was blown down at an auto sales lot damaging several cars. Large signs were also blown down at GMC Stadium in Sauget. |
| Dupo | 8/10/2005 | Tstm Wind | 57 kts. | 0 | 0 | 0 | Thunderstorm wind gusts caused scattered wind damage across the area. Trees were reported down near Dupo and Cahokia. A large metal sign was blown down at an auto sales lot damaging several cars. Large signs were also blown down at GMC Stadium in Sauget. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|---------|-------|--------|-----------------|--|
| Sauget | 8/10/2005 | Tstm Wind | 57 kts. | 0 | 0 | 0 | Thunderstorm wind gusts caused scattered wind damage across the area. Trees were reported down near Dupo and Cahokia. A large metal sign was blown down at an auto sales lot damaging several cars. Large signs were also blown down at GMC Stadium in Sauget. |
| Belleville | 8/10/2005 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Emergency management officials reported nickel size hail and some large trees down along Highway 15 near the Our Lady of the Snows Shrine. |
| Belleville | 8/13/2005 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Thunderstorm wind gusts estimated at 60 - 65 mph caused scattered tree damage and downed some power lines in Belleville and the Summerfield area. |
| Lebanon | 8/13/2005 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Storm spotters reported large tree limbs and power lines down. |
| Summerfield | 8/13/2005 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Thunderstorm wind gusts estimated at 60 - 65 mph caused scattered tree damage and downed some power lines in Belleville and the Summerfield area. |
| Dupo | 9/19/2005 | Tstm Wind | 55 kts. | 0 | 0 | 0 | The public reported trees down between Dupo and Cahokia. Local law enforcement reported large tree limbs down in Fairview Heights. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|--------------|----------|-------|--------|-----------------|---|
| Fairview Hgts | 9/19/2005 | Tstm Wind | 57 kts. | 0 | 0 | 0 | The public reported trees down between Dupo and Cahokia. Local law enforcement reported large tree limbs down in Fairview Heights. |
| Belleville | 11/5/2005 | Hail | 0.75 in. | 0 | 0 | 0 | Storm spotters reported 3/4 inch hail near Belleville and in New Athens, and 1 inch hail at Scott Air Force Base. |
| New Athens | 11/5/2005 | Hail | 0.75 in. | 0 | 0 | 0 | Storm spotters reported 3/4 inch hail near Belleville and in New Athens, and 1 inch hail at Scott Air Force Base. |
| Scott AFB | 11/5/2005 | Hail | 1.00 in. | 0 | 0 | 0 | Storm spotters reported 3/4 inch hail near Belleville and in New Athens, and 1 inch hail at Scott Air Force Base. |
| St. Clair | 12/8/2005 | Winter Storm | N/A | 0 | 0 | 0 | The first significant winter storm of the season fell across the area bringing 2 to 5 inches of snow. West Central Illinois received from 2 - 5 inches of snow while Southwest and South Central Illinois saw 2 - 4 inches. There was one death related to the snowfall. An 88 year-old woman was found dead in her home after suffering a heart attack. Neighbors had seen her outside earlier shoveling snow. |
| Freeburg | 2/16/2006 | Hail | 0.75 in. | 0 | 0 | 0 | A storm spotter reported 3/4 inch hail. |
| Mascoutah | 2/16/2006 | Hail | 1.75 in. | 0 | 0 | 0 | Storm spotters reported hail up to golf ball size in Mascoutah. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|---------------------------|-------------|-------------|------------|--------------|---------------|------------------------|--|
| Mascoutah | 2/16/2006 | Hail | 1.00 in. | 0 | 0 | 0 | Storm spotters reported hail up to golf ball size in Mascoutah. |
| Marissa | 2/16/2006 | Tstm Wind | 52 kts. | 0 | 0 | 0 | Storm spotters reported power lines down at several locations in town. |
| Marissa | 3/11/2006 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| Belleville | 3/13/2006 | Tstm Wind | 59 kts. | 0 | 0 | 0 | None Reported |
| Belleville | 4/2/2006 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| Belleville | 4/2/2006 | Hail | 0.88 in. | 0 | 0 | 0 | None Reported |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|----------|---------|-----|-------|--------|-----------------|---|
| Fairview Hgts | 4/2/2006 | Tornado | F2 | 1 | 11 | 0 | <p>Around 515 pm CDT the tornado first caused damage 200 yards south of the intersection of Union Hill road and Long Acre Drive in southwest Fairview Heights, Illinois. Several large trees and large limbs were downed by the tornado. The damage width at this location was 60 yards wide while damage intensity was rated F0. The tornado traveled northeast through a small subdivision southwest of Lincoln Trail (US 50) and Cathy Lane. There was minor roof damage to several homes, a two car garage was damaged and several large trees were either uprooted or snapped half way up. On the east side of Cathy Lane the roof of an apartment building was damaged while a second establishment sustained side and roof damage. Damage was rated F1 intensity while the damage width ranged from 60 to 80 yards. On the north side of US 50 several large power poles were snapped off. Other establishments along the north side of US 50 sustained various degrees of damage. Light poles and tree damage revealed a convergent damage pattern indicative of a tornado. The tornado then hit the south side of the K & G clothing store. The front center part of the roof collapsed while debris from this area was pushed along the east side of the large store. There was one fatality and 11 injuries at this store. The damage width ranged between 80 to 100 yards in this area while the damage intensity was rated lower end of F2. The tornado continued northeast across</p> |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------|------|-----|-------|--------|-----------------|---|
| | | | | | | | <p>St. Clair Square Mall, Interstate 64, and then hit a church on Old Collinsville Road. The tornado damaged the steeple and roof of the church. The tornado then damaged three homes and one farm just west of the intersection of Milburn School Road and Pausch Road 2 miles northeast of Fairview Heights. Several large trees were also damaged over this area. The damage width was approximately 60 yards wide while damage Intensity was rated F1. The tornado then crossed the intersection of Kyle and Simmons Road and caused only minor roof damage to six homes in a subdivision north of Kyle Road. The tornado continued to travel northeast and caused damage to several homes in the Crown Point subdivision just south of O`Fallon-Troy Road. The roof of one home was completely uplifted and tossed over 100 yards to the northeast. The damage width was 100 yards wide while damage intensity was rated F2. The tornado then crossed O`Fallon-Troy Road and totally destroyed a machine shed at a farm. Debris from the machine shed was tossed over 1/3 mile to the northeast. Two other homes 1/4 mile north of the intersection of Weil and O`Fallon road sustained varying degrees of damage. The roof of one home was uplifted and displaced to the northeast. Several trees in this area were also damaged. The width of the tornadic damage was 100 yards while damage intensity was rated F1. Insulation debris from both homes was</p> |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|----------|-----------|---------|-------|--------|-----------------|---|
| | | | | | | | tossed over 300 yards across an open field and line of large trees. The total tornadic damage track was approximately 7 miles. This tornado was a type referred to as a non-supercell tornado. Given that the line of thunderstorm which produced this tornado was moving 60 mph, the tornado was only on the ground for about 8 minutes. M54BU |
| Millstadt | 4/2/2006 | Tstm Wind | 56 kts. | 0 | 0 | 0 | Local law enforcement reported some trees and power lines down. |
| Cahokia | 4/2/2006 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Numerous trees and power lines were down across the east portion of town. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-----------|----------|-------|--------|-----------------|--|
| Lebanon | 4/2/2006 | Tstm Wind | 60 kts. | 0 | 0 | 0 | Some large trees and tree limbs were down in Lebanon, especially on the campus of McKendree College. Highway 4 just south of town was blocked by downed trees. |
| Millstadt | 4/19/2006 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| New Athens | 4/30/2006 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| New Athens | 4/30/2006 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| Belleville | 5/1/2006 | Hail | 0.88 in. | 0 | 0 | 0 | None Reported |
| Belleville | 5/1/2006 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| Belleville | 5/24/2006 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| Scott AFB | 5/24/2006 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |
| Shiloh | 5/24/2006 | Hail | 1.25 in. | 0 | 0 | 0 | None Reported |
| Marissa | 5/24/2006 | Hail | 0.75 in. | 0 | 0 | 0 | Hail was covering the ground. |
| Marissa | 5/24/2006 | Hail | 1.00 in. | 0 | 0 | 0 | None Reported |
| Marissa | 5/24/2006 | Tstm Wind | 52 kts. | 0 | 0 | 0 | None Reported |
| New Athens | 5/31/2006 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| Belleville | 6/17/2006 | Tstm Wind | 61 kts. | 0 | 0 | 0 | Thunderstorm winds blew down several large trees and power lines on the north side of Belleville and in Swansea. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|----------------|----------|-------|--------|-----------------|--|
| Summerfield | 6/22/2006 | Hail | 0.75 in. | 0 | 0 | 0 | None Reported |
| St. Clair | 7/14/2006 | Excessive Heat | N/A | 0 | 4 | 0 | Right on schedule, a major heat wave hit southwest Illinois in mid-July. Temperatures ranged from the middle 90s to around 100. The heat index ranged from 100 to close to 115. To make matters worse, severe thunderstorms roared through the St. Louis Metropolitan area on the 19th and 21st causing a major power outage. Some residents were without power for a week to 10 days. |
| East St Louis | 7/19/2006 | Tstm Wind | 65 kts. | 0 | 0 | 0 | Thunderstorm winds heavily damaged the Gateway Fabricators Building and caused partial collapse of several brick buildings onto cars in town. Also, numerous trees were uprooted and a truck was blown over at the local hospital. |
| St. Clair | 7/19/2006 | Tstm Wind | 51 kts. | 0 | 0 | 0 | Numerous trees, tree limbs and power lines were blown down. |
| East Carondelet | 7/19/2006 | Tstm Wind | 61 kts. | 0 | 0 | 0 | Numerous trees, tree limbs and power lines were blown down. Some of the trees and tree limbs fell onto homes and cars causing minor to moderate damage. |
| O Fallon | 7/19/2006 | Tstm Wind | 61 kts. | 0 | 0 | 0 | Several large tree limbs were blown down. |
| Lebanon | 7/21/2006 | Hail | 1.75 in. | 0 | 0 | 0 | None Reported |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|----------------|---------|-------|--------|-----------------|--|
| Summerfield | 7/21/2006 | Tornado | F0 | 0 | 0 | 0 | A tornado first formed in St. Clair County north of Summerfield and moved east southeast into Clinton County near Trenton. In St. Clair County damage was limited to downed and severed trees. |
| Fairview Hgts | 7/21/2006 | Tstm Wind | 60 kts. | 0 | 0 | 0 | Several power lines were blown down. |
| O Fallon | 7/21/2006 | Tstm Wind | 60 kts. | 0 | 0 | 0 | Several large trees and tree limbs were blown down. |
| Shiloh | 7/21/2006 | Tstm Wind | 60 kts. | 0 | 0 | 0 | Numerous trees were topped. |
| Lebanon | 7/21/2006 | Tstm Wind | 60 kts. | 0 | 0 | 0 | Downburst winds caused tree and crop damage in a 5 mile swath from northwest of Lebanon to north of Summerfield. Several hundred acres of corn were affected. |
| Summerfield | 7/21/2006 | Tstm Wind | 60 kts. | 0 | 0 | 0 | Several large trees were blown down. A couple of the trees fell onto two homes causing minor to moderate damage. |
| Mascoutah | 7/21/2006 | Tstm Wind | 52 kts. | 0 | 0 | 0 | Numerous large tree limbs were blown down. |
| Freeburg | 7/21/2006 | Tstm Wind | 55 kts. | 0 | 0 | 0 | Several large tree limbs and power lines were blown down. |
| St. Clair | 7/29/2006 | Excessive Heat | N/A | 1 | 0 | 0 | Excessive heat returned to southwest Illinois in late July and continue into early August. High temperatures were around 100 degrees with the heat index from 105 to 110. M75PH |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|----------|----------------|----------|-------|--------|-----------------|---|
| St. Clair | 8/1/2006 | Excessive Heat | N/A | 1 | 0 | 0 | The late July Heat Wave continued into the first 2 days of August. Quincy, IL reached 100 on July 30, 101 on July 31, 99 on August 1, and 101 on August 2. Most other area were also around 100 degrees the first 2 days of August. One death, in Edwardsville in Madison County, was attributed to the heat. M80PH |
| Sauget | 3/1/2007 | Hail | 0.75 in. | 0 | 0 | OK | A warm front extended from a strong surface low west of Columbia, Missouri to just south of St. Louis and across Southern Illinois. Unseasonably warm, moist, and unstable air was moving north towards central Missouri while cooler moist air was present north of the warm front. This helped to trigger severe thunderstorms along and north of the warm front, including a severe bow echo system. The storms began to develop during the evening hours of February 28th and persisted into the late morning hours of March 1st. |
| Belleville | 4/3/2007 | Hail | 0.88 in. | 0 | 0 | OK | A cold front moved through the region triggering severe thunderstorms. Numerous reports of hail were received. |
| Belleville | 4/3/2007 | Hail | 0.75 in. | 0 | 0 | OK | A cold front moved through the region triggering severe thunderstorms. Numerous reports of hail were received. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|----------|------|----------|-------|--------|-----------------|--|
| Freeburg | 4/3/2007 | Hail | 1.00 in. | 0 | 0 | OK | A cold front moved through the region triggering severe thunderstorms. Numerous reports of hail were received. |
| Freeburg | 4/3/2007 | Hail | 1.00 in. | 0 | 0 | OK | A cold front moved through the region triggering severe thunderstorms. Numerous reports of hail were received. |
| Freeburg | 4/3/2007 | Hail | 0.88 in. | 0 | 0 | OK | A cold front moved through the region triggering severe thunderstorms. Numerous reports of hail were received. |
| Mascoutah | 4/3/2007 | Hail | 0.75 in. | 0 | 0 | OK | A cold front moved through the region triggering severe thunderstorms. Numerous reports of hail were received. |
| Millstadt | 4/3/2007 | Hail | 0.75 in. | 0 | 0 | OK | A cold front moved through the region triggering severe thunderstorms. Numerous reports of hail were received. |
| Freeburg | 4/3/2007 | Hail | 0.88 in. | 0 | 0 | OK | Nickel size hail was reported at the intersection of Routes 156 and 13. A cold front moved through the region triggering severe thunderstorms. Numerous reports of hail were received. |
| New Athens | 4/3/2007 | Hail | 0.75 in. | 0 | 0 | OK | A cold front moved through the region triggering severe thunderstorms. Numerous reports of hail were received. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|-----------|-------------------|----------|-------|--------|-----------------|--|
| Belleville | 4/3/2007 | Hail | 0.88 in. | 0 | 0 | 0K | A cold front moved through the region triggering severe thunderstorms. Numerous reports of hail were received. |
| Mascoutah | 5/10/2007 | Hail | 0.75 in. | 0 | 0 | 0K | Amateur radio spotters reported 3/4 inch hail northwest of Mascoutah. Severe thunderstorms ahead of a cold front produced large hail and localized flooding across Southwest Illinois. Some locations received up to 4 inches of rain. |
| Smithton | 5/10/2007 | Thunderstorm Wind | N/A | 0 | 0 | 10K | A local television station reported large tree limbs and power lines down in Smithton. Severe thunderstorms ahead of a cold front produced large hail and localized flooding across Southwest Illinois. Some locations received up to 4 inches of rain. |
| Freeburg | 5/10/2007 | Thunderstorm Wind | N/A | 0 | 0 | 5K | Amateur radio spotters reported a large tree limb fell on a power line and knocked out power to part of town for several hours. Severe thunderstorms ahead of a cold front produced large hail and localized flooding across Southwest Illinois. Some locations received up to 4 inches of rain. |
| Belleville | 7/9/2007 | Hail | 1.00 in. | 0 | 0 | 0K | Storm spotters reported 1 inch hail. Scattered severe thunderstorms formed during the afternoon across the St. Louis Metropolitan area and adjacent portions of Illinois. |

St. Clair County Multi-Hazard Mitigation Plan

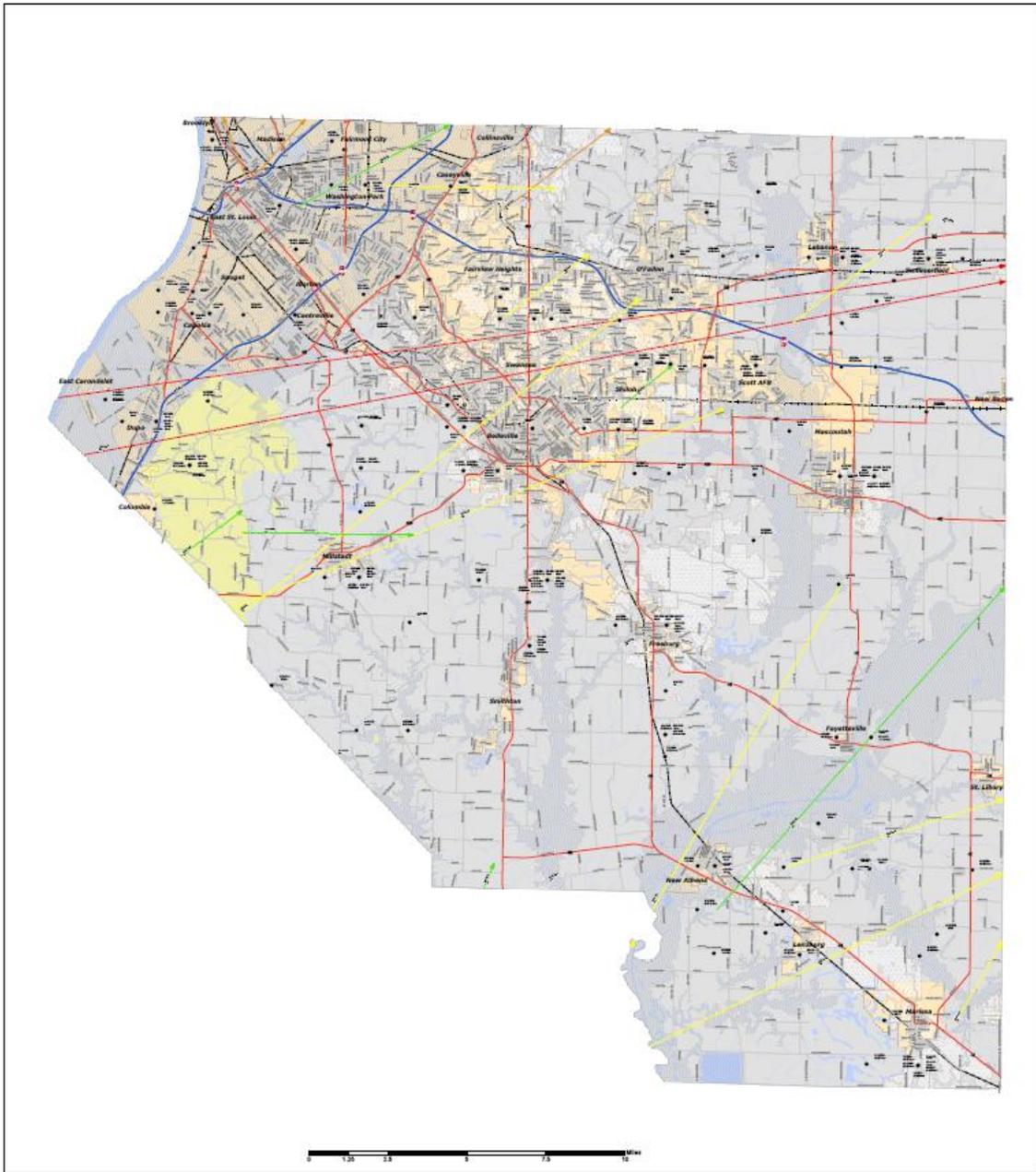
| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|----------|-------------------|----------|-------|--------|-----------------|--|
| Fairview Hgts | 7/9/2007 | Hail | 1.00 in. | 0 | 0 | OK | Storm spotters reported 1 inch hail. Scattered severe thunderstorms formed during the afternoon across the St. Louis Metropolitan area and adjacent portions of Illinois. |
| Cahokia | 7/9/2007 | Thunderstorm Wind | N/A | 0 | 0 | OK | Multiple large tree limbs were reported down just south of Cahokia. Scattered severe thunderstorms formed during the afternoon across the St. Louis Metropolitan area and adjacent portions of Illinois. |
| St. Clair | 8/4/2007 | Excessive Heat | N/A | 2 | 6 | OK | The first and only real Heat Wave of the summer began on August 4th and lasted through August 16th. High temperatures were consistently from the middle 90s to around 100 with the Heat Index from 105 to 110 degrees. Two deaths were reported in Madison County and one in St. Clair County. Two were found in homes that did not have air conditioning, and for the third the air conditioning was not working. Many schools across the area went to an early dismissal schedule in order to combat the heat. |

St. Clair County Multi-Hazard Mitigation Plan

| Location or County | Date | Type | Mag | Death | Injury | Property Damage | Description |
|--------------------|------------|-------------------|----------|-----------|------------|-----------------|--|
| Belleville | 8/13/2007 | Thunderstorm Wind | N/A | 0 | 0 | OK | Numerous tree limbs were blown down around the intersection of Illinois Route 13 and Warrensburg Road. A large thunderstorm complex that developed over Nebraska and Iowa moved east southeast into Missouri and Illinois the evening of August 12th. It was diminishing as it approached the area, but still had enough power to cause wind damage into the early morning hours of August 13th. |
| Belleville | 8/24/2007 | Hail | 0.88 in. | 0 | 0 | OK | Isolated high precipitation supercells developed and moved through the region on August 24th. Damaging winds and large hail were associated with the severe storms. |
| East St Louis | 8/24/2007 | Thunderstorm Wind | N/A | 0 | 0 | OK | Isolated high precipitation supercells developed and moved through the region on August 24th. Damaging winds and large hail were associated with the severe storms. |
| St. Clair | 10/18/2007 | Hail | 0.75 in. | 0 | 0 | OK | A strong cold front moved across the region during the afternoon and evening hours on October 18th...triggering showers and thunderstorms. |
| St. Clair | 2/23/2008 | Winter Weather | N/A | 0 | 0 | OK | About twin inches of snow fell across parts of Monroe, St. Clair, Randolph, and Marion counties in Illinois. There were some auto accidents reported across the area. |
| TOTALS: | | | | 38 | 654 | 30.447M | |

Appendix E: Historical Hazard Maps

Please See also PDF Files on Disk or Attached Maps



**St. Clair County
Pre-Disaster Mitigation Plan**

Historical Natural Hazards Map

2

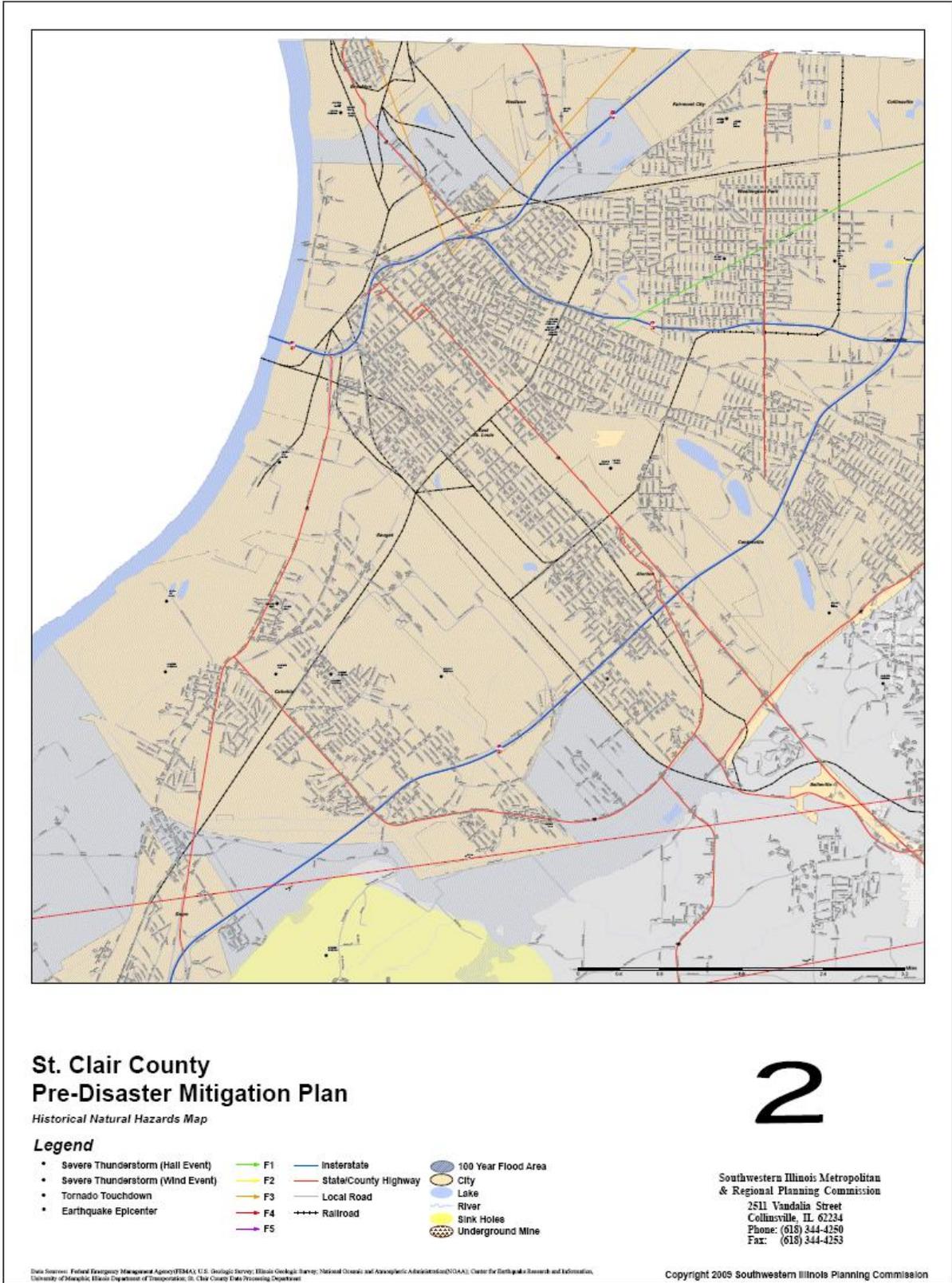
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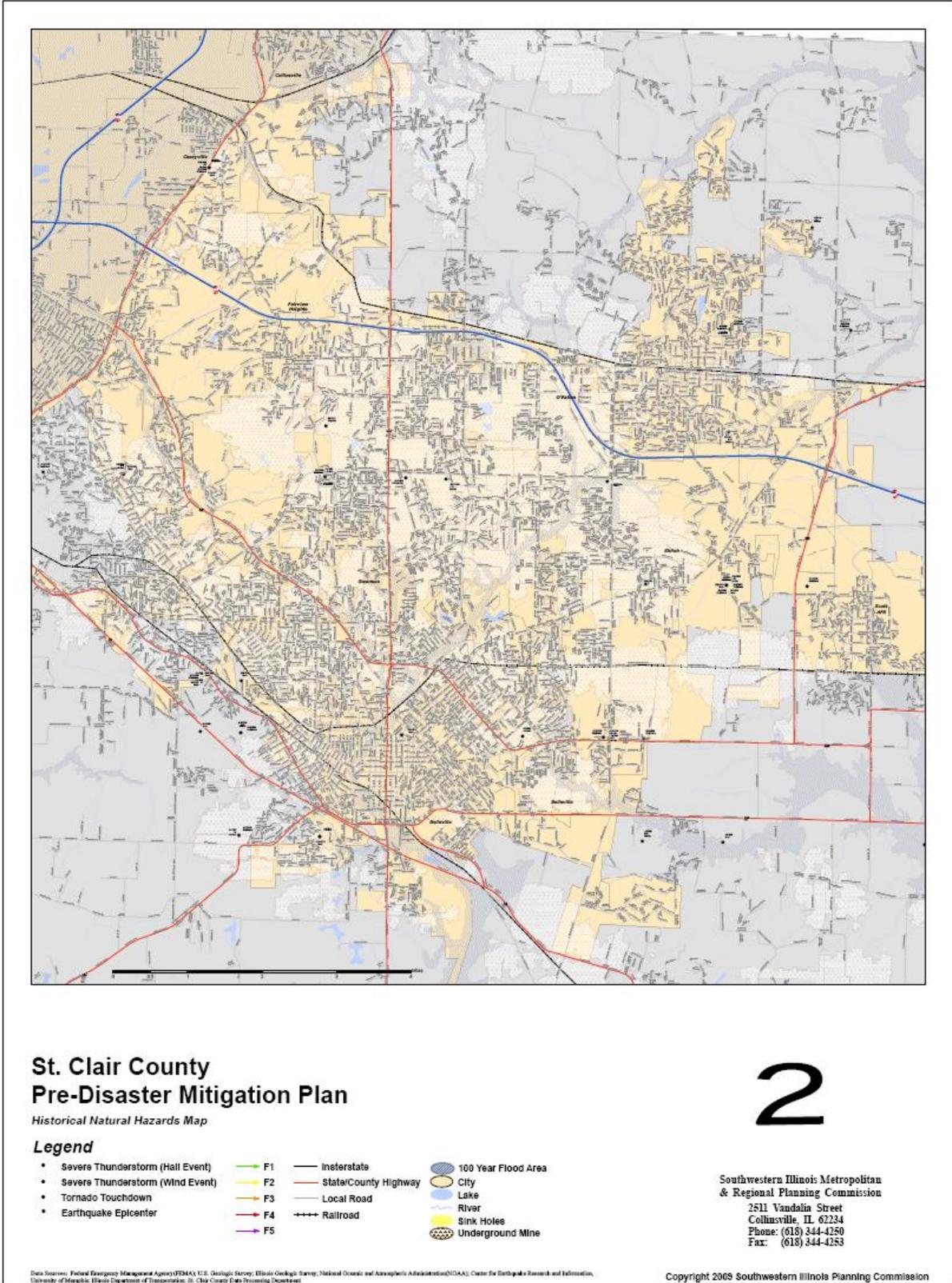
- Severe Thunderstorm (Hail Event) — F1 — Interstate
- Severe Thunderstorm (Wind Event) — F2 — State/County Highway
- Tornado Touchdown — F3 — Local Road
- Earthquake Epicenter — F4 — Railroad
- F5
- 100 Year Flood Area
- City
- Lake
- River
- Sink Holes
- Underground Mine

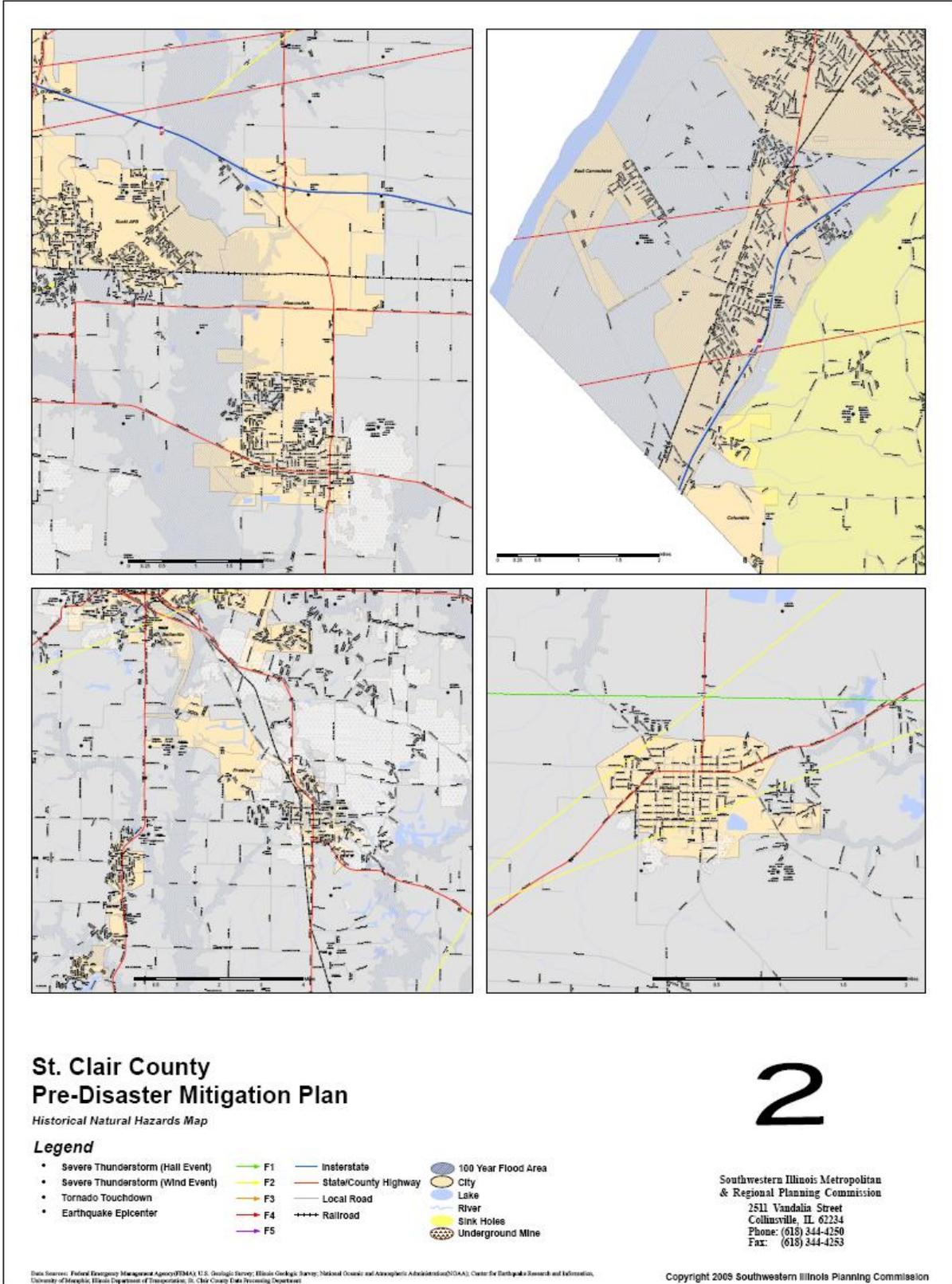
Southwestern Illinois Metropolitan
& Regional Planning Commission
2511 Vandalia Street
Collinsville, IL 62234
Phone: (618) 344-4250
Fax: (618) 344-4253

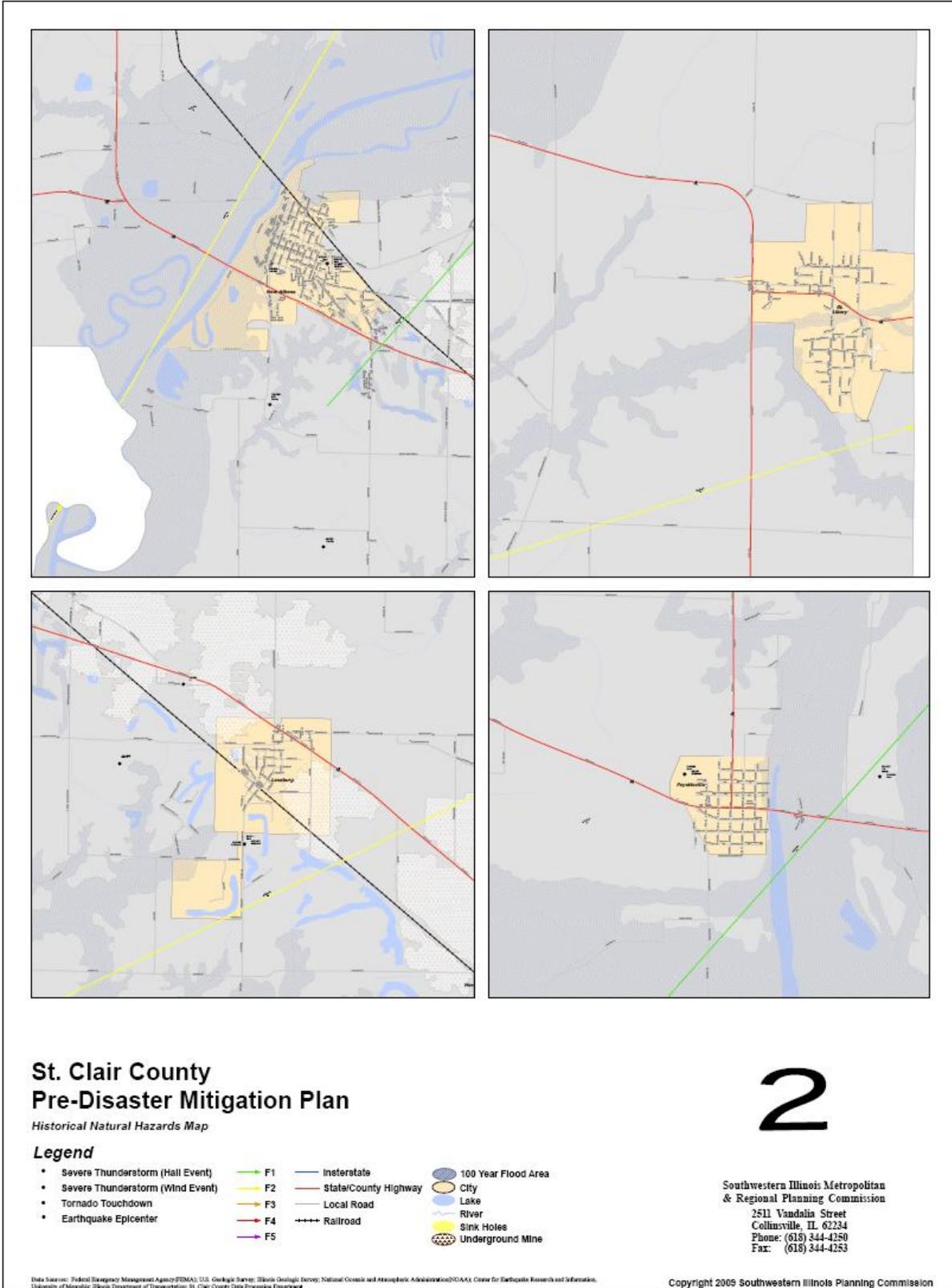
Data Sources: Federal Emergency Management Agency (FEMA); U.S. Geological Survey; Illinois Geological Survey; National Oceanic and Atmospheric Administration (NOAA); Center for Earthquake Research and Information; University of Memphis; Illinois Department of Transportation; St. Clair County Data Processing Department

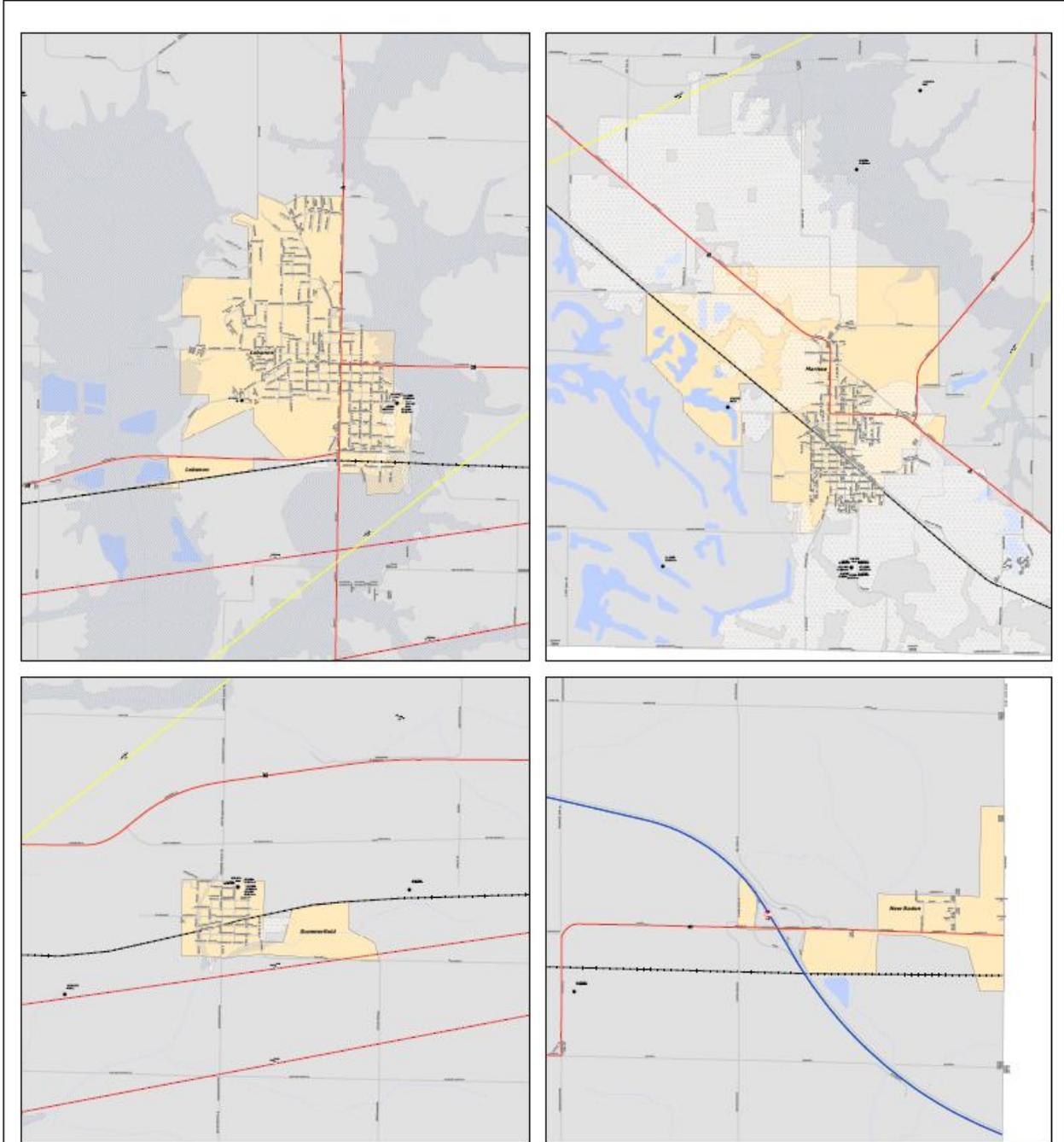
Copyright 2005 Southwestern Illinois Planning Commission











St. Clair County Pre-Disaster Mitigation Plan

Historical Natural Hazards Map

Legend

- | | | | |
|------------------------------------|------|------------------------|-----------------------|
| • Severe Thunderstorm (Hail Event) | — F1 | — Interstate | ● 100 Year Flood Area |
| • Severe Thunderstorm (Wind Event) | — F2 | — State/County Highway | ● City |
| • Tornado Touchdown | — F3 | — Local Road | ● Lake |
| • Earthquake Epicenter | — F4 | — Railroad | ● River |
| | — F5 | | ● Sink Holes |
| | | | ● Underground Mine |

2

Southwestern Illinois Metropolitan
& Regional Planning Commission
2511 Vandalia Street
Collinsville, IL 62234
Phone: (618) 344-4250
Fax: (618) 344-4253

Data Sources: Federal Emergency Management Agency (FEMA); U.S. Geological Survey; Illinois Geologic Survey; National Oceanic and Atmospheric Administration (NOAA); Center for Earthquake Research and Information; University of Memphis; Illinois Department of Transportation; St. Clair County Data Processing Department.

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Appendix F: Critical Facilities

Airport Facilities Report

| ID | Name | Address | City | Class | Function | Capacity | YearBuilt | ReplaCost |
|-----------|----------------------|----------------|-------------|--------------|-----------------|-----------------|------------------|------------------|
| 1 | HERSCHEL HUNTER | | MARISSA | ADFLT | Private | | | 6049.5 |
| 2 | HAROLD EMMERICH | | BELLEVILLE | ADFLT | Private | | | 6049.5 |
| 3 | AERO ESTATES | | BELLEVILLE | ADFLT | Private | | | 6049.5 |
| 4 | BEN EMGE | | BELLEVILLE | ADFLT | Private | | | 6049.5 |
| 5 | SCOTT AFB/MIDAMERICA | | BELLEVILLE | ADFLT | Public | | | 6049.5 |
| 6 | ST LOUIS DOWNTOWN | | CAHOKIA/S | ADFLT | Public | | | 6049.5 |
| 7 | HEITMAN AERDROME | | MILLSTADT | ADFLT | Private | | | 6049.5 |
| 8 | SCHALLER | | NEW | ADFLT | Private | | | 6049.5 |
| 9 | WILDY FLD | | NEW | ADFLT | Private | | | 6049.5 |
| 10 | LINDAUER | | NEW | ADFLT | Private | | | 6049.5 |

Bus Facilities Report

| ID | Name | Address | City | Class | Function | Owner | DailyTraffic | YearBuilt | ReplaCost |
|-----------|----------------------|--------------------|-------------|--------------|-----------------|--------------|---------------------|------------------|------------------|
| 1 | Mascoutah Bus Garage | 100 Fillmore St | Mascoutah | BDFLT | | | | | 1209.9 |
| 2 | St Clair County | 1004 S Lincoln Ave | O Fallon | BDFLT | | | | | 1209.9 |

Communication Facilities Report

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|------------------------------|-------------|--------------|--------------------|-----------------|------------------|
| 1 | KNFY674 | 1/4 MI W | MARISS | CBR | WAELTZ, | | |
| 2 | KNFY674 | | MARISS | CBR | WAELTZ, | | |
| 3 | KNFY674 | 9307 RISDON SCHOOL RD | MARISS | CBR | WAELTZ, | | |
| 4 | KNFY674 | | MARISS | CBR | WAELTZ, | | |
| 5 | WNUI888 | 105 HOT ST | MARISS | CBR | MARISSA | | |
| 6 | WPNL474 | 560A White Oak Mine Road | MARISS | CBR | Cellco Partnership | | |
| 7 | WPMZ827 | 200 WEST N RAILROAD STREET | MARISS | CBR | MARISSA FIRE | | |
| 8 | WPMZ827 | | MARISS | CBR | MARISSA FIRE | | |
| 9 | WNTM231 | INT OF ST RT 13 & 4 1 MI ENE | MARISS | CBR | KASKASKIA | | |
| 10 | WNTM233 | 100 FT N IL CENTRAL GULF RR | MARISS | CBR | KASKASKIA | | |
| 11 | WQGX664 | 748 IL-13 | MARISS | CBR | USCOC OF | | |
| 12 | WPGN214 | 314 B E SPRING ST | MARISS | CBR | MARISSA, | | |
| 13 | WQIU896 | INTERSECTION OF LYONS STREET | MARISS | CBR | ILLINOIS | | |
| 14 | WNUI888 | 932 N MAIN ST | MARISS | CBR | MARISSA | | |
| 15 | WNUI888 | | MARISS | CBR | MARISSA | | |
| 16 | WNTM230 | INT OF ST RT 4 & 13 1 MI NE | MARISS | CBR | KASKASKIA | | |
| 17 | WPSW633 | 316 W. MARISSA ST | MARISS | CBR | NEXTEL | | |
| 18 | WPSW633 | | MARISS | CBR | NEXTEL | | |
| 19 | WPSJ264 | 300 SCHOOLVIEW DRIVE | MARISS | CBR | Marissa | | |
| 20 | WPSJ264 | | MARISS | CBR | Marissa | | |
| 21 | WRQ694 | 4 MI NW BALDWIN POWER PLANT | NEW | CBR | WILDY, RALPH | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|----------------------------------|-------------|--------------|------------------|-----------------|------------------|
| 22 | KNFN955 | 5 MI S 2 MI W ON BALWIN RD | NEW | CBR | KINZINGER, | | |
| 23 | WPKP842 | 1250 HANFT RD | LENZBU | CBR | BOLLMEIER, | | |
| 24 | WPKP842 | | LENZBU | CBR | BOLLMEIER, | | |
| 25 | KNAB749 | 3 N MAPLE | LENZBU | CBR | LENZBURG, | | |
| 26 | KNAB749 | | LENZBU | CBR | LENZBURG, | | |
| 27 | KSF817 | IL STATE ROUTE #13 EAST OF | LENZBU | CBR | SAINT CLAIR, | | |
| 28 | WQAH919 | HIGHWAY 13 EAST OF LENZBURG | LENZBU | CBR | SAINT CLAIR, | | |
| 29 | WQAJ441 | HIGHWAY 13 EAST OF LENZBURG | LENZBU | CBR | SAINT CLAIR, | | |
| 30 | WQCQ940 | IL STATE ROUTE #13 EAST OF | LENZBU | CBR | ST. CLAIR, | | |
| 31 | WNTM229 | 175 FEET NE STATE RT 13 1/2 MI E | LENZBU | CBR | KASKASKIA | | |
| 32 | KRB505 | 53M NE STATE RT 13 & .8KM E OF | LENZBU | CBR | KASKASKIA | | |
| 33 | KRB505 | | LENZBU | CBR | KASKASKIA | | |
| 34 | WNTM232 | COR N MAIN & NASHVILLE | LENZBU | CBR | KASKASKIA | | |
| 35 | WZX504 | 212 N MAIN ST | MARISS | CBR | MARISSA, | | |
| 36 | KNKB445 | LENZBURG ROAD | LENZBU | CBR | Arch Wireless | | |
| 37 | WQCJ723 | 4 MI W MUD CREEK .9 MI N | LENZBU | CBR | DRESSLER | | |
| 38 | WQCJ723 | | | CBR | DRESSLER | | |
| 39 | KNED520 | 9 MI DUE N OF LENZBURG 4 MI DUE | BELLEVI | CBR | ELLISON, Brian M | | |
| 40 | WPDR512 | 4 MI W MUD CREEK .9 MI N | LENZBU | CBR | Wirelessusa | | |
| 41 | WPDR512 | | | CBR | Wirelessusa | | |
| 42 | WPDR512 | | LENZBU | CBR | Wirelessusa | | |
| 43 | KFM816 | 3/10 MI E ON RT 13 & 500 S | NEW | CBR | ROGERS REDI | | |
| 44 | KFM816 | | NEW | CBR | ROGERS REDI | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|----------------------------------|-------------|--------------|-----------------|-----------------|------------------|
| 45 | WXH721 | 710 MARI LANE | NEW | CBR | IDECKER, MARY | | |
| 46 | WNTM228 | 700 S MARKET ST | NEW | CBR | KASKASKIA | | |
| 47 | KRB505 | 700 R S MARKET ST | NEW | CBR | KASKASKIA | | |
| 48 | WPJE615 | 1215 SPOTSYLVANIA RD | NEW | CBR | New Cingular | | |
| 49 | WXH721 | INT BALDWIN RD & RT 13 | NEW | CBR | IDECKER, MARY | | |
| 50 | KNKA218 | SITE NEW ATHENS SECTOR 290 | NEW | CBR | New Cingular | | |
| 51 | KSG942 | INT CHURCH ST & SR 13 | NEW | CBR | NEW ATHENS | | |
| 52 | WPJH737 | 13 KM W | NEW | CBR | BIRKNER, | | |
| 53 | WPJH737 | | NEW | CBR | BIRKNER, | | |
| 54 | KXL952 | CORNER OF RT 156 & 159 N 400 OF | HECKER | CBR | NU DEAL CORP | | |
| 55 | KNJK590 | 905 SPOTSYLVANIA ST | NEW | CBR | NEW ATHENS, | | |
| 56 | KNJK590 | | NEW | CBR | NEW ATHENS, | | |
| 57 | WNCZ391 | 905 SPOTSYLVANIA | NEW | CBR | NEW ATHENS, | | |
| 58 | WNCZ391 | | NEW | CBR | NEW ATHENS, | | |
| 59 | KFM816 | OAK RIDGE CEMETARY RD | NEW | CBR | ROGERS REDI | | |
| 60 | KFM816 | | NEW | CBR | ROGERS REDI | | |
| 61 | WPQY641 | .8 MI NE OF THE JCT OF OLD IL RT | NEW | CBR | ILLINOIS, STATE | | |
| 62 | WNTM226 | COR MARKET ST & KASKASKIA | NEW | CBR | KASKASKIA | | |
| 63 | WPNT342 | 501 HANFT ST | NEW | CBR | NEW ATHENS | | |
| 64 | WPNT342 | | NEW | CBR | NEW ATHENS | | |
| 65 | WQGX666 | OAK RIDGE ROAD | NEW | CBR | USCOC OF | | |
| 66 | WQGX666 | OAK RIDGE ROAD | NEW | CBR | USCOC OF | | |
| 67 | WNTM227 | COR JOHNSON & SPRING ST | NEW | CBR | KASKASKIA | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|-------------------------------------|-------------|--------------|----------------|-----------------|------------------|
| 68 | KNAL725 | 1 MI NW OF HWY 156 & 159 | HECKER | CBR | COLUMBIA | | |
| 69 | KFG930 | RR 2 25 MI NW INT HWYS 13 & 156 | NEW | CBR | STROH, | | |
| 70 | KBZ451 | 250 OF RT 15 | SAINT | CBR | BEELMAN | | |
| 71 | KBZ451 | | SAINT | CBR | BEELMAN | | |
| 72 | WLK746 | 2.8 MI N OF | NEW | CBR | AT&T | | |
| 73 | WQIE210 | (FREEBURG) FIVE FORKS ROAD | NEW | CBR | METROPOLITAN | | |
| 74 | WPEI606 | 743 RUTTER ST | SAINT | CBR | ST LIBORY FIRE | | |
| 75 | WPEI606 | | SAINT | CBR | ST LIBORY FIRE | | |
| 76 | KLJ232 | JCT OF RT 15 & 4 | SAINT | CBR | TRENTMAN, | | |
| 77 | WSP402 | 8443 FIVE FORKS EAST RD | NEW | CBR | HIGH HOPE FARM | | |
| 78 | WSP402 | | NEW | CBR | HIGH HOPE FARM | | |
| 79 | KNFS505 | 3 1/4 MI N OF 159 & 156 & 1/10 MI E | NEW | CBR | KLEIN, VICTOR | | |
| 80 | KNGH913 | 3 1/2 MI N OF 159 & 156 AND 1/10 MI | NEW | CBR | MEHRMANN, | | |
| 81 | KNKA234 | 7995 LEMENTON ROAD | NEW | CBR | CYBERTEL | | |
| 82 | KNKA234 | 7995 LEMENTON ROAD | NEW | CBR | CYBERTEL | | |
| 83 | WQFC628 | | Fayettev | CBR | Fayetteville, | | |
| 84 | WNVI963 | INT OF RT 4 AND 15 | FAYETT | CBR | FAYETTEVILLE | | |
| 85 | WNVI963 | | FAYETT | CBR | FAYETTEVILLE | | |
| 86 | WSN817 | 200 S OF R460 1 MI W FAYETTEVILLE | FREEBU | CBR | VERLAN FUNK | | |
| 87 | WSN817 | | FREEBU | CBR | VERLAN FUNK | | |
| 88 | KB27427 | 7258 BLACKSMITH SHOP RD | FREEBU | CBR | WISKAMP, | | |
| 89 | KB27427 | | FREEBU | CBR | WISKAMP, | | |
| 90 | KB27427 | | FREEBU | CBR | WISKAMP, | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|-------------------------------|-------------|--------------|---------------|-----------------|------------------|
| 91 | WPTG989 | SMITHTON TANK - 4600 SR - 159 | FREEBU | CBR | FSH Water | | |
| 92 | WPTG989 | FSH OFFICE - 700 URBAN DRIVE | FREEBU | CBR | FSH Water | | |
| 93 | WPTG989 | | FREEBU | CBR | FSH Water | | |
| 94 | WPKZ934 | | | CBR | SAINT LIBORY, | | |
| 95 | WQGX669 | VANEDY RD. | MARISS | CBR | USCOC OF | | |
| 96 | WQGX669 | VANEDY RD. | MARISS | CBR | USCOC OF | | |
| 97 | KSG884 | 711 N. MAIN STREET | SMITHTO | CBR | SMITHTON FIRE | | |
| 98 | KSG884 | | SMITHTO | CBR | SMITHTON FIRE | | |
| 99 | WPBI215 | E SIDE ICRR TRACKS APPROX 250 | FREEBU | CBR | ILLINOIS | | |
| 100 | WQBC876 | | SMITHTO | CBR | SMITHTON, | | |
| 101 | WPTG989 | SLM WATER PLANT - 5700 | MASCOU | CBR | FSH Water | | |
| 102 | WQEZ306 | 550 URBANNA DRIVE | FREEBU | CBR | USCOC OF | | |
| 103 | WQBC876 | 101 S MAIN ST | SMITHTO | CBR | SMITHTON, | | |
| 104 | WQBC876 | | SMITHTO | CBR | SMITHTON, | | |
| 105 | KNGW976 | 14 SOUTHGATE CENTER | FREEBU | CBR | FREEBURG, | | |
| 106 | KNGW976 | | FREEBU | CBR | FREEBURG, | | |
| 107 | WNHI738 | 14 SOUTHGATE CTR | FREEBU | CBR | FREEBURG, | | |
| 108 | WNHI738 | | FREEBU | CBR | FREEBURG, | | |
| 109 | WNNS586 | RT 4 5 MI S | MASCOU | CBR | RASP, KENNETH | | |
| 110 | WNNS586 | | MASCOU | CBR | RASP, KENNETH | | |
| 111 | KKL809 | 408 S BELLEVILLE | FREEBU | CBR | FREEBURG | | |
| 112 | KKL809 | | FREEBU | CBR | FREEBURG | | |
| 113 | WPCY548 | CORNER OF APPLE AND PITTS | FREEBU | CBR | FREEBURG, | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----|---------|---|------------|-------|------------------|----------|-----------|
| 114 | WQIE229 | 5800 Douglas - Freeburg Rd. | Smithton | CBR | METROPOLITAN | | |
| 115 | WPEU422 | | | CBR | SMITHTON | | |
| 116 | WNZR751 | 514 N HICKORY | SMITHTO | CBR | KREHER, | | |
| 117 | WNZR751 | | SMITHTO | CBR | KREHER, | | |
| 118 | WPKZ232 | | | CBR | S L M WATER | | |
| 119 | WQCT933 | | FREEBU | CBR | HUBBELL | | |
| 120 | WRZ568 | 408 W HIGH ST | FREEBU | CBR | FREEBURG | | |
| 121 | WPTG989 | WEST FREEBURG TANK - N. WALNUT | FREEBU | CBR | FSH Water | | |
| 122 | WQIE250 | 500 W. Mill Street | Freeburg | CBR | METROPOLITAN | | |
| 123 | KNKA218 | Mill Street (Lot 76 in Blk 2 of Mill | Freeburg | CBR | New Cingular | | |
| 124 | WNTB933 | INT OF N WALNUT & MILL ST | FREEBU | CBR | ILLINOIS | | |
| 125 | KSD342 | 10025 BUNKUM RD CITY HALL | FAIRVIE | CBR | FAIRVIEW | | |
| 126 | WQBN757 | 57th / 59th St RR crossing at MP 13.20W | Belleville | CBR | Norfolk Southern | | |
| 127 | KNKS240 | 3.8 miles NNW of | FAYETT | CBR | American | | |
| 128 | WQIU879 | 9712 Jefferson Rd | Mascouta | CBR | Ameren Services | | |
| 129 | WQAH919 | 9712 JEFFERSON ROAD | MASCOU | CBR | SAINT CLAIR, | | |
| 130 | WQAJ441 | 9712 JEFFERSON ROAD | MASCOU | CBR | SAINT CLAIR, | | |
| 131 | WQEK918 | 4 1/2 MI S OF MASCOUTAH ON IL RT | MASCOU | CBR | HAAS & HAAS A | | |
| 132 | WQEK918 | | MASCOU | CBR | HAAS & HAAS A | | |
| 133 | WQIE226 | 6000 Cart Road | Millstadt | CBR | METROPOLITAN | | |
| 134 | WPPQ457 | "6001 CART ROAD, #A" | MILLSTA | CBR | NEXTEL | | |
| 135 | WPPQ457 | | MILLSTA | CBR | NEXTEL | | |
| 136 | WPSU977 | 1799 N. STATE STREET | FREEBU | CBR | NEXTEL | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|--------------------------------|-------------|--------------|--------------|-----------------|------------------|
| 137 | WPSU977 | | FREEBU | CBR | NEXTEL | | |
| 138 | WNPJ368 | RR 1 BOX 195C | FREEBU | CBR | PARCO | | |
| 139 | WNPJ368 | | FREEBU | CBR | PARCO | | |
| 140 | WPMW884 | 500 N STATE ST | FREEBU | CBR | FREEBURG, | | |
| 141 | WPXX602 | | MILLSTA | CBR | HEIMOS | | |
| 142 | WNDG879 | 2.5 MI S RT 158 AND .3 MI E | MILLSTA | CBR | ECCHER, | | |
| 143 | WNDG879 | | MILLSTA | CBR | ECCHER, | | |
| 144 | KSF405 | 114 S JEFFERSON | MILLSTA | CBR | UNION FIRE | | |
| 145 | KSF405 | | MILLSTA | CBR | UNION FIRE | | |
| 146 | KNCH710 | TOWNSHIP BLDG E HARRISON ST | MILLSTA | CBR | MILLSTADT | | |
| 147 | WNFF798 | 601 S JEFFERSON ST | MILLSTA | CBR | GENE | | |
| 148 | WNFF798 | | MILLSTA | CBR | GENE | | |
| 149 | WQHU740 | 111 WEST LAUREL STEET | MILLSTA | CBR | MILLSTADT | | |
| 150 | WQHU740 | | MILLSTA | CBR | MILLSTADT | | |
| 151 | KGQ272 | 415 S ILLINOIS ST | MILLSTA | CBR | ROY | | |
| 152 | KGQ272 | | MILLSTA | CBR | ROY | | |
| 153 | WXY289 | 211 W MILL ST | MILLSTA | CBR | MILLSTADT | | |
| 154 | WSL894 | 108 S JEFFERSON | MILLSTA | CBR | MILLSTADT | | |
| 155 | WSL894 | | MILLSTA | CBR | MILLSTADT | | |
| 156 | WQAH920 | MADISON STREET & BREESE STREET | MILLSTA | CBR | SAINT CLAIR, | | |
| 157 | WQAJ442 | MADISON STREET & BREESE STREET | MILLSTA | CBR | SAINT CLAIR, | | |
| 158 | WLV960 | 322 E RR 1 | MILLSTA | CBR | New Cingular | | |
| 159 | WPYJ302 | | Millstadt | CBR | Millstadt | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|-------------------------------|-------------|--------------|-----------------|-----------------|------------------|
| 160 | WPTW979 | 1120 SCHLUETER GERMAINE ROAD | BELLEVI | CBR | HEBERER FARMS | | |
| 161 | WPTW979 | | BELLEVI | CBR | HEBERER FARMS | | |
| 162 | WQIE211 | St. Louis Rock Rd & Hilltop | Belleville | CBR | METROPOLITAN | | |
| 163 | WNQE844 | 7132 FUNK SCHOOL RD | BELLEVI | CBR | Harold Amann & | | |
| 164 | WNQE844 | | BELLEVI | CBR | Harold Amann & | | |
| 165 | WPTW979 | 3047 OLD FREEBURG ROAD | BELLEVI | CBR | HEBERER FARMS | | |
| 166 | WPTW979 | | BELLEVI | CBR | HEBERER FARMS | | |
| 167 | WPZT364 | | BELLEVI | CBR | ECKERTS INC | | |
| 168 | KSF817 | 2990 SAVE ROAD | BELLEVI | CBR | SAINT CLAIR, | | |
| 169 | WQAH919 | 3001 SAVE ROAD | BELLEVI | CBR | SAINT CLAIR, | | |
| 170 | WQAJ441 | 3001 SAVE ROAD | BELLEVI | CBR | SAINT CLAIR, | | |
| 171 | WQCQ940 | 2990 SAVE ROAD | BELLEVI | CBR | ST. CLAIR, | | |
| 172 | WPMW884 | TANK 3001 S A V E RD | FREEBU | CBR | FREEBURG, | | |
| 173 | KNFY467 | 2 MI E OF IL RT 15/13 | TURKEY | CBR | ILLINOIS, STATE | | |
| 174 | KNJK846 | 40 W UNION STREET | MASCOU | CBR | MASCOUTAH, | | |
| 175 | KNJK846 | | MASCOU | CBR | MASCOUTAH, | | |
| 176 | KRS635 | .5 MI N OF HWY 158 | BELLEVI | CBR | American | | |
| 177 | WPIX234 | .5 MI N OF HWY 158 | BELLEVI | CBR | American | | |
| 178 | WPJJ343 | .5 MI N OF HWY 158 | BELLEVI | CBR | American | | |
| 179 | KRJ621 | 1/2 MI SE OF JCT OLD FREEBURG | BELLEVI | CBR | Ameren Services | | |
| 180 | KNJG921 | 520 S RAILWAY ST | MASCOU | CBR | TERAYNE AG | | |
| 181 | WQEU614 | | BELLEVI | CBR | THE ORCHARDS | | |
| 182 | KNJK846 | 3 W MAIN ST | MASCOU | CBR | MASCOUTAH, | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|----------------------------------|-------------|--------------|--------------------|-----------------|------------------|
| 183 | KNJK846 | | MASCOU | CBR | MASCOUTAH, | | |
| 184 | KSD228 | 3 W MAIN | MASCOU | CBR | MASCOUTAH, | | |
| 185 | WNYV246 | 1.7 MI N AND 1/4 MI E | MILLSTA | CBR | BAUR, WAYNE L | | |
| 186 | WNYV246 | | | CBR | BAUR, WAYNE L | | |
| 187 | KWZ836 | 1.7 MI N & 1/4 MI E OF | MILLSTA | CBR | J C HAULING | | |
| 188 | KEV569 | 608 S INDEPENDENCE | MASCOU | CBR | KILIAN & KILIAN | | |
| 189 | KSD728 | 608 S INDEPENDENCE | MASCOU | CBR | KILIAN | | |
| 190 | KSD728 | | MASCOU | CBR | KILIAN | | |
| 191 | KJC772 | 1/4 MI E & 1/2 MI S | DUPO | CBR | MUND, LOU | | |
| 192 | WPQH905 | 1.2 MI NW OF MASCOUTAH 1 MI S OF | BELLEVI | CBR | SHILOH VALLEY, | | |
| 193 | WPQH905 | | BELLEVI | CBR | SHILOH VALLEY, | | |
| 194 | KSD228 | 224 N RAILWAY | MASCOU | CBR | MASCOUTAH, | | |
| 195 | KSD228 | | MASCOU | CBR | MASCOUTAH, | | |
| 196 | KSF215 | 40 W UNION ST | MASCOU | CBR | MASCOUTAH, | | |
| 197 | KSF215 | | MASCOU | CBR | MASCOUTAH, | | |
| 198 | WNEC640 | 703 W MAIN | MASCOU | CBR | AVISTON | | |
| 199 | WNWU225 | | | CBR | ORCHARDS | | |
| 200 | KNGT862 | LEBANON & FILLMORE ST | MASCOU | CBR | MASCOUTAH | | |
| 201 | KNGT862 | | MASCOU | CBR | MASCOUTAH | | |
| 202 | WPRR686 | 2107 FREEBURG AVE | BELLEVI | CBR | State of Illinois- | | |
| 203 | WPMU758 | 200 S BELT E | BELLEVI | CBR | ST CLAIR | | |
| 204 | WPMU758 | | BELLEVI | CBR | ST CLAIR | | |
| 205 | KNGZ433 | 1401 S ILLINOIS | BELLEVI | CBR | CAMPER | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|--------------------------------------|-------------|--------------|--------------------|-----------------|------------------|
| 206 | WNQN870 | 3 MI E ON RT 177 & 1 MI N 3/4 MI E & | MASCOU | CBR | STEIN, DARRYL | | |
| 207 | WNQN870 | | MASCOU | CBR | STEIN, DARRYL | | |
| 208 | WPKJ724 | | | CBR | BELLEVILLE, | | |
| 209 | KSF215 | N 6TH ST AND JR HIGH | MASCOU | CBR | MASCOUTAH, | | |
| 210 | WPTG798 | 2500 Carlyle Ave | Belleville | CBR | Southwestern | | |
| 211 | WPTG798 | | Belleville | CBR | Southwestern | | |
| 212 | KNNS637 | 2500 CARLYLE AVE | BELLEVI | CBR | SOUTHWESTER | | |
| 213 | KNNS637 | | BELLEVI | CBR | SOUTHWESTER | | |
| 214 | WNWV377 | 1125 S ILLINOIS ST | BELLEVI | CBR | Illinois-American | | |
| 215 | WYG960 | 1125 S ILLINOIS ST | BELLEVI | CBR | Illinois-American | | |
| 216 | WQEB727 | | Belleville | CBR | Veile Construction | | |
| 217 | KNCR757 | 624 ATLANTA DR | BELLEVI | CBR | ATLANTA | | |
| 218 | WPWW841 | 2012 MASCOUTAH RD. | BELLEVI | CBR | FIRST STUDENT, | | |
| 219 | WPWW841 | | BELLEVI | CBR | FIRST STUDENT, | | |
| 220 | WPVT939 | 2.2 Mi E of Jct IMBS STA RD & RT 3 | Dupo | CBR | St Louis | | |
| 221 | WPVT939 | | Dupo | CBR | St Louis | | |
| 222 | WPVT939 | | DUPO | CBR | St Louis | | |
| 223 | WNWD249 | 3.5 KM E OF JCT OF IMBS RD & | STDUPO | CBR | L KEELEY | | |
| 224 | WNWD249 | | STDUPO | CBR | L KEELEY | | |
| 225 | WNBT402 | 2.2 MI E JCT IMBS STA RD & IL SR 3 | DUPO | CBR | SECOM | | |
| 226 | KON602 | 1060 HWY 460 | BELLEVI | CBR | WEINEL | | |
| 227 | KNDA848 | 900 FREEBURG AVE | BELLEVI | CBR | BUILDING | | |
| 228 | KNDA848 | | BELLEVI | CBR | BUILDING | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|---------------------------|-------------|--------------|-----------------|-----------------|------------------|
| 229 | WPOB799 | | | CBR | N & W | | |
| 230 | KAY668 | 111 S 6TH ST | BELLEVI | CBR | BELLEVILLE, | | |
| 231 | KAY668 | | BELLEVI | CBR | BELLEVILLE, | | |
| 232 | KYD819 | 111 S 6TH ST | BELLEVI | CBR | BELLEVILLE, | | |
| 233 | KFD303 | 307 MASCOUTAH AVE | BELLEVI | CBR | EHRET | | |
| 234 | KFD303 | | BELLEVI | CBR | EHRET | | |
| 235 | WQAZ718 | | Dupo | CBR | Dupo District # | | |
| 236 | WPMT895 | | | CBR | GE Medical | | |
| 237 | KSA477 | 6TH STREET GARAGE | BELLEVI | CBR | BELLEVILLE, | | |
| 238 | KSA477 | | BELLEVI | CBR | BELLEVILLE, | | |
| 239 | WQEZ307 | 1.4 MI SSE OF THE CITY OF | BELLEVI | CBR | USCOC OF | | |
| 240 | KIZ352 | 211 S THIRD ST | BELLEVI | CBR | ST ELIZABETHS | | |
| 241 | WPMP630 | 211 S 3RD ST | BELLEVI | CBR | ST ELIZABETHS | | |
| 242 | WPMP630 | | BELLEVI | CBR | ST ELIZABETHS | | |
| 243 | WPPF603 | 211 S THIRD ST | BELLEVI | CBR | ST ELIZABETHS | | |
| 244 | WPPF603 | | BELLEVI | CBR | ST ELIZABETHS | | |
| 245 | KNDE563 | 120 S ILLINOIS | BELLEVI | CBR | CYPRESS | | |
| 246 | KNDE563 | | BELLEVI | CBR | CYPRESS | | |
| 247 | WNTQ806 | 10 PUBLIC SQUARE | BELLEVI | CBR | ST CLAIR | | |
| 248 | KD46867 | | | CBR | BELLEVILLE, | | |
| 249 | KSA477 | 101 S ILLINOIS ST | BELLEVI | CBR | BELLEVILLE, | | |
| 250 | KSA477 | | BELLEVI | CBR | BELLEVILLE, | | |
| 251 | KSA477 | | BELLEVI | CBR | BELLEVILLE, | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|------------------------------|-------------|--------------|---------------|-----------------|------------------|
| 252 | WPAX638 | | | CBR | SAINT CLAIR, | | |
| 253 | WPHJ763 | | | CBR | ST CLAIR, | | |
| 254 | WNWY282 | 2500 CARLYLE AVE | BELLEVI | CBR | Southwestern | | |
| 255 | WNWY282 | | BELLEVI | CBR | Southwestern | | |
| 256 | WPSU596 | 1436 EAST MAIN ST | BELLEVI | CBR | NEXTEL | | |
| 257 | WPSU596 | | BELLEVI | CBR | NEXTEL | | |
| 258 | WPSU970 | 1436 EAST MAIN ST | BELLEVI | CBR | NEXTEL | | |
| 259 | WPSU970 | | BELLEVI | CBR | NEXTEL | | |
| 260 | KNKS240 | 137 IOWA AT B ST | BELLEVI | CBR | American | | |
| 261 | WMQ292 | INT OF IOWA AND B STS | BELLEVI | CBR | CYBERTEL | | |
| 262 | KNKA234 | CORNER OF IOWA AND B STREETS | BELLEVI | CBR | CYBERTEL | | |
| 263 | KNKA234 | CORNER OF IOWA AND B STREETS | BELLEVI | CBR | CYBERTEL | | |
| 264 | KLO713 | 1915 S BELT WEST | BELLEVI | CBR | BEL O SALES & | | |
| 265 | WPXU346 | 1000 CARLYLE STREET | BELLEVI | CBR | O'REILLY | | |
| 266 | WPXU346 | | BELLEVI | CBR | O'REILLY | | |
| 267 | WPNF286 | VARIOUS LOCATIONS | MASCOU | CBR | Cellnet | | |
| 268 | KBN548 | 2201 S BELT W | BELLEVI | CBR | POELKERS | | |
| 269 | WPDJ799 | | | CBR | LIESE LUMBER | | |
| 270 | WSY824 | 1/4MI N RT 161 & 200E RT 158 | BELLEVI | CBR | KNOBELOCH, | | |
| 271 | WSY824 | | BELLEVI | CBR | KNOBELOCH, | | |
| 272 | WRP782 | 1420 N COUNTY RD | MASCOU | CBR | SCHWENDS | | |
| 273 | WRP782 | | MASCOU | CBR | SCHWENDS | | |
| 274 | WPTT625 | 652 CARLYLE | BELLEVI | CBR | PIZZA HUT OF | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|------------------------------|-------------|--------------|------------------|-----------------|------------------|
| 275 | WQBF952 | | BELLEVI | CBR | BELLEVILLE | | |
| 276 | WPKB979 | | | CBR | TACO BELL | | |
| 277 | WPKQ911 | | | CBR | TACO BELL | | |
| 278 | WPRX342 | | BELLEVI | CBR | TACO BELL 3357 | | |
| 279 | WPXG583 | 420' S.W. OF 208 W. MAIN ST. | DUPO | CBR | Union Pacific | | |
| 280 | WPXG583 | | DUPO | CBR | Union Pacific | | |
| 281 | WNTQ807 | 500 N 5TH ST | BELLEVI | CBR | ST CLAIR | | |
| 282 | KGR302 | 700 N 5TH ST | BELLEVI | CBR | SAINT CLAIR, | | |
| 283 | KSF817 | 700 N 5TH ST | BELLEVI | CBR | SAINT CLAIR, | | |
| 284 | KTS731 | FIFTH AND F ST | BELLEVI | CBR | SAINT CLAIR, | | |
| 285 | WNLK675 | COUNTY JAIL 700 N 5TH ST | BELLEVI | CBR | SAINT CLAIR, | | |
| 286 | WNLK675 | | BELLEVI | CBR | SAINT CLAIR, | | |
| 287 | KD29761 | | | CBR | ST CLAIR, | | |
| 288 | KSG935 | 321 W F ST | BELLEVI | CBR | ST CLAIR, | | |
| 289 | KWF944 | 321 W F ST | BELLEVI | CBR | ST CLAIR, | | |
| 290 | WNXK676 | 700 N 5TH ST | BELLEVI | CBR | ST CLAIR, | | |
| 291 | WRZ632 | 2300 S BELT WEST | BELLEVI | CBR | NORTHWEST | | |
| 292 | WPBZ794 | | | CBR | LIESE LUMBER | | |
| 293 | WPMG268 | 8265 ST RT 4 | MASCOU | CBR | ARROW GROUP | | |
| 294 | WPMG268 | | MASCOU | CBR | ARROW GROUP | | |
| 295 | WQZ663 | 8003 BOHNEMEIR RD | EAST | CBR | Arch Wireless | | |
| 296 | KWT849 | 8003 BOHNEMEIR RD | EAST | CBR | Bell Industries, | | |
| 297 | WQFR946 | 8003 BOHNEMEIR RD | EAST | CBR | VANDALIA BUS | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|------------------------------------|-------------|--------------|----------------|-----------------|------------------|
| 298 | WQFR946 | | EAST | CBR | VANDALIA BUS | | |
| 299 | KRH641 | WCBW-FM TOWER, APPROXIMATELY | DUPO | CBR | HARRISONVILLE | | |
| 300 | KRH641 | WCBW-FM TOWER, APPROXIMATELY | DUPO | CBR | Harrisonville | | |
| 301 | WLK829 | IL RT 163 | WESTVI | CBR | CYBERTEL | | |
| 302 | WNVH430 | 8003 BOHNEMEIR CHURCH RD | DUPO | CBR | ConocoPhillips | | |
| 303 | WNVH430 | | DUPO | CBR | ConocoPhillips | | |
| 304 | KBE819 | 8003 BOHNEMEIER CHURCH RD | EAST | CBR | DUPO, VILLAGE | | |
| 305 | WNGC361 | 1.16 MI NW INT OF IMBS SR & TRIPLE | SUGARL | CBR | Nextel License | | |
| 306 | WPBH919 | 1.16 MI NBW OF INT OF IMBS | SUGARL | CBR | Nextel License | | |
| 307 | WPBH919 | | SUGARL | CBR | Nextel License | | |
| 308 | WPDT226 | 1.16 MI NW OF INT IMBS & TRIPLE LN | SUGARL | CBR | Nextel License | | |
| 309 | WPDT226 | | SUGARL | CBR | Nextel License | | |
| 310 | WPDU556 | 1.16 MI NW OF INT OF IMBS & TRIPLE | SUGARL | CBR | Nextel License | | |
| 311 | WPDU556 | | SUGARL | CBR | Nextel License | | |
| 312 | WPDU558 | 1.16 MI NW OF INT OF IMBS & TRIPLE | SUGARL | CBR | Nextel License | | |
| 313 | WPDU558 | | SUGARL | CBR | Nextel License | | |
| 314 | WPDU562 | 1.16 MI NW OF INT OF IMBS & TRIPLE | SUGARL | CBR | Nextel License | | |
| 315 | WPDU562 | | SUGARL | CBR | Nextel License | | |
| 316 | WPDU969 | 1.16 MI NW OF INT OF IMBS & TRIPLE | SUGARL | CBR | Nextel License | | |
| 317 | WPDU969 | | SUGARL | CBR | Nextel License | | |
| 318 | WPDV260 | 1.16 MI NW OF INT OF IMBS & TRIPLE | SUGARL | CBR | Nextel License | | |
| 319 | WPDV260 | | SUGARL | CBR | Nextel License | | |
| 320 | WPEN399 | 1.16 MI NW OF INT OF IMBS & TRIPLE | SUGARL | CBR | Nextel License | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|------------------------------------|-------------|--------------|------------------|-----------------|------------------|
| 321 | WPEN399 | | SUGARL | CBR | Nextel License | | |
| 322 | WPEN403 | 1.16 MI NW OF INT OF IMBS & TRIPLE | SUGARL | CBR | Nextel License | | |
| 323 | WPEN403 | | SUGARL | CBR | Nextel License | | |
| 324 | WPEN407 | 1.16 MI NW OF INT OF IMBS & TRIPLE | SUGARL | CBR | Nextel License | | |
| 325 | WPEN407 | | SUGARL | CBR | Nextel License | | |
| 326 | WPEN411 | 1.16 MI NW OF INT OF IMBS & TRIPLE | SUGARL | CBR | Nextel License | | |
| 327 | WPEN411 | | SUGARL | CBR | Nextel License | | |
| 328 | WPEN415 | 1.16 MI NW OF INT OF IMBS & TRIPLE | SUGARL | CBR | Nextel License | | |
| 329 | WPEN415 | | SUGARL | CBR | Nextel License | | |
| 330 | KFT743 | .5 MI OFF RT 3 & .5 MI S | DUPO | CBR | COLUMBIA | | |
| 331 | KFT743 | | DUPO | CBR | COLUMBIA | | |
| 332 | WQBT797 | 2nd St RR crossing @ RR MP 16.9W | Belleville | CBR | Norfolk Southern | | |
| 333 | KTH443 | BETWEEN MAIN LINE & SPUR TRK | BELLEVI | CBR | NORFOLK | | |
| 334 | WQHR257 | | BELLEVI | CBR | Norfolk Southern | | |
| 335 | WJD59 | ADJ TO N 21ST ST | BELLEVI | CBR | NORFOLK | | |
| 336 | WPBJ754 | 600 LOUISA DR | DUPO | CBR | DUPO COMM | | |
| 337 | WPBJ754 | | DUPO | CBR | DUPO COMM | | |
| 338 | WNCL901 | 150' W OF HWY 3 & 75' N OF E | DUPO | CBR | UNION PACIFIC | | |
| 339 | WNCL901 | | DUPO | CBR | UNION PACIFIC | | |
| 340 | WPVQ592 | STATE HWY 3 AT E CARONDELET | DUPO | CBR | UNION PACIFIC | | |
| 341 | KNDF893 | 2700 S BELT W | BELLEVI | CBR | BELLEVILLE | | |
| 342 | KNDF893 | | BELLEVI | CBR | BELLEVILLE | | |
| 343 | WPPQ450 | 100 N 24TH ST | BELLEVI | CBR | NEXTEL | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|--|-------------|--------------|-------------------|-----------------|------------------|
| 344 | WPPQ450 | | BELLEVI | CBR | NEXTEL | | |
| 345 | WPSU600 | 11804 RENTH RD | NEW | CBR | NEXTEL | | |
| 346 | WPSU600 | | NEW | CBR | NEXTEL | | |
| 347 | WPSU978 | 11804 RENTH RD | NEW | CBR | NEXTEL | | |
| 348 | WPSU978 | | NEW | CBR | NEXTEL | | |
| 349 | WPVB528 | Illinois Ave RR crossing at MP 017..1W | Belleville | CBR | Norfolk Southern | | |
| 350 | WQIE246 | 195-A COULTER ROAD | EAST | CBR | METROPOLITAN | | |
| 351 | WPLB750 | 195 COULTER ROAD | DUPO | CBR | Nextel License | | |
| 352 | WPLB750 | | DUPO | CBR | Nextel License | | |
| 353 | WPLB522 | 195 COULTER RD | DUPO | CBR | NEXTEL | | |
| 354 | WPLB522 | | DUPO | CBR | NEXTEL | | |
| 355 | WPPQ446 | 195 COULTER RD | EAST | CBR | NEXTEL | | |
| 356 | WPPQ446 | | EAST | CBR | NEXTEL | | |
| 357 | KBE819 | 100 N SECOND ST | DUPO | CBR | DUPO, VILLAGE | | |
| 358 | KBE819 | | DUPO | CBR | DUPO, VILLAGE | | |
| 359 | KUX517 | 100 N 2ND ST | DUPO | CBR | DUPO, CITY OF | | |
| 360 | WPZR868 | 1723 N BELT EAST | BELLVIL | CBR | EAST SIDE FIRE | | |
| 361 | WPZR868 | | BELLVIL | CBR | EAST SIDE FIRE | | |
| 362 | WPDS832 | | | CBR | DUPO, VILLAGE | | |
| 363 | KSH395 | 501 COLUMBIA RD | DUPO | CBR | DUPO FIRE | | |
| 364 | KSH395 | | DUPO | CBR | DUPO FIRE | | |
| 365 | WNWV377 | 100 N WATER WORKS | BELLEVI | CBR | Illinois-American | | |
| 366 | WYG960 | 100 N WATER WORKS DR | BELLEVI | CBR | Illinois-American | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|-------------------------|-------------|--------------|--------------------|-----------------|------------------|
| 367 | KSG986 | 1350 N ILLINOIS HWY 159 | SWANSE | CBR | SWANSEA, | | |
| 368 | KSG986 | | | CBR | SWANSEA, | | |
| 369 | WQBQ400 | | Belleville | CBR | National Shrine of | | |
| 370 | WMJ982 | 2211 STATE ST | E | CBR | New Cingular | | |
| 371 | WQCQ486 | 3001 OTTO STREET | BELLEVI | CBR | WEYERHAEUSE | | |
| 372 | KNJM983 | 3001 OTTO ST | BELLEVI | CBR | WEYERHAEUSE | | |
| 373 | KNJM983 | | BELLEVI | CBR | WEYERHAEUSE | | |
| 374 | KNCE592 | 4501 N PARK DR | BELLEVI | CBR | MEMORIAL | | |
| 375 | KWF792 | 4500 MEMORIAL DR | BELLEVI | CBR | MEMORIAL | | |
| 376 | KWF792 | | BELLEVI | CBR | MEMORIAL | | |
| 377 | KXP685 | 4501 N PARK DR | BELLEVI | CBR | MEMORIAL | | |
| 378 | WNFI517 | 4501 N PARK DR | BELLEVI | CBR | MEMORIAL | | |
| 379 | WNFI517 | | BELLEVI | CBR | MEMORIAL | | |
| 380 | WPIR620 | 4500 MEMORIAL DR | BELLEVI | CBR | MEMORIAL | | |
| 381 | WNB472 | | SWANSE | CBR | SWANSEA, | | |
| 382 | WNDM860 | 215 SERVICE ST | SWANSE | CBR | SWANSEA, | | |
| 383 | WPAI848 | 215 SERVICE ST | SWANSE | CBR | SWANSEA, | | |
| 384 | WPAI848 | | SWANSE | CBR | SWANSEA, | | |
| 385 | WQIE239 | 215 Service Street | Belleville | CBR | METROPOLITAN | | |
| 386 | KSF724 | 1 MI NE OF | DUPO | CBR | REESE | | |
| 387 | KSF724 | | | CBR | REESE | | |
| 388 | WPGJ823 | | | CBR | REESE | | |
| 389 | WPTH895 | | BELLEVI | CBR | ALL TYPE | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|---------------------------------------|-------------|--------------|----------------------|-----------------|------------------|
| 390 | KNBL298 | 3339 W MAIN | BELLEVI | CBR | PHIL SAWYER | | |
| 391 | KNBL298 | | BELLEVI | CBR | PHIL SAWYER | | |
| 392 | WQIL809 | Richter School Crossing @ RR MP | New | CBR | Norfolk Southern | | |
| 393 | KNJG364 | RT 161 2 1/4 MI W OF NEW BADEN AT | MASCOU | CBR | MASCOUTAH, | | |
| 394 | KNJG364 | | MASCOU | CBR | MASCOUTAH, | | |
| 395 | WPVT990 | SR-161 RR crossing at MP 29.98W | Belleville | CBR | Norfolk Southern | | |
| 396 | WPXE762 | SE COR INT FREEDOM DR & ICRR | BELLEVI | CBR | Illinois Centrail | | |
| 397 | WPXE762 | | BELLEVI | CBR | Illinois Centrail | | |
| 398 | WNTT973 | SE CORNER OF INT OF FREEDOM | BELLEVI | CBR | ILLINOIS | | |
| 399 | WNRQ995 | SOU RR MP 24.9W NEAR SCOTT AFB | LEBANON | | CBR Norfolk Southern | | |
| 400 | WPJJ548 | E OF I255 & 1/4 MI N FROM IL 3 | DUPO | CBR | State of Illinois, | | |
| 401 | WPVT990 | Superior St. RR crossing at MP 25.45W | Scott | CBR | Norfolk Southern | | |
| 402 | WPVT990 | South Rd RR crossing at MP 25.45W | Scott | CBR | Norfolk Southern | | |
| 403 | WPVT990 | Old Collinsville Rd RR crossing at MP | Belleville | CBR | Norfolk Southern | | |
| 404 | WPVT990 | SR-158 RR crossing at MP 23.8W | Scott | CBR | Norfolk Southern | | |
| 405 | WPVB528 | Lebanon Ave RR crossing at MP | Belleville | CBR | Norfolk Southern | | |
| 406 | WPZR868 | 3111 EAST B STREET RD | BELLEVI | CBR | EAST SIDE FIRE | | |
| 407 | WQIL809 | TR-132A RR Crossing @ RR MP | Belleville | CBR | Norfolk Southern | | |
| 408 | KSG985 | 1416 STATE ST | EAST | CBR | PRAIRIE | | |
| 409 | KSG985 | | | CBR | PRAIRIE | | |
| 410 | WQAH919 | KILLINGS FARM ROAD AND STATE | EAST | CBR | SAINT CLAIR, | | |
| 411 | WQAJ441 | KELLINGS FARM ROAD AND STATE | EAST | CBR | SAINT CLAIR, | | |
| 412 | WZZ725 | WIL AM TRANSMITTER | DUPO | CBR | ENTERTAINMEN | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|------------------------------------|-------------|--------------|-------------------|-----------------|------------------|
| 413 | WPYU409 | BUILDING #533 HANGER ROAD | SCOTT | CBR | INTERFACE | | |
| 414 | WPYU409 | | SCOTT | CBR | INTERFACE | | |
| 415 | WPWP243 | 100 CONNISTON DRIVE | BELLEVI | CBR | VILLA HILLS | | |
| 416 | WPWP243 | | BELLEVI | CBR | VILLA HILLS | | |
| 417 | KZV642 | RR 1 FALLING SPRINGS RD 2 MI E | CAHOKI | CBR | FALLING | | |
| 418 | KZV642 | | CAHOKI | CBR | FALLING | | |
| 419 | WPUR564 | NEAR THE INTERSECTION OF IL 158 | SHILOH | CBR | SAINT CLAIR | | |
| 420 | WPUR965 | 4400 WEST MAIN | BELLEVI | CBR | O'REILLY | | |
| 421 | WPUR965 | | BELLEVI | CBR | O'REILLY | | |
| 422 | WQHD876 | 5501 Belleville Crossing Street | Belleville | CBR | HOME DEPOT | | |
| 423 | WNTQ551 | 2310 LEBANON AVE | BELLEVI | CBR | Illinois-American | | |
| 424 | WNWV377 | 2310 LEBANON AVE | BELLEVI | CBR | Illinois-American | | |
| 425 | WNWV377 | | BELLEVI | CBR | Illinois-American | | |
| 426 | WYG960 | 2310 LEBANON AVE | BELLEVI | CBR | Illinois-American | | |
| 427 | WRZ632 | 1513 N BELT WEST | BELLEVI | CBR | NORTHWEST | | |
| 428 | KSV564 | 1.5 MI E OF R 3 300 S OF STOLLE RD | STOLLE | CBR | CASPER STOLLE | | |
| 429 | KSG985 | ALTERNATE ST RT 3 & FIRST ST | EAST | CBR | PRAIRIE | | |
| 430 | WQGH661 | | SCOTT | CBR | HEXAGRAM INC. | | |
| 431 | WQIJ961 | 52ND STREET RR CROSSING @ RR | BELLEVI | CBR | Norfolk Southern | | |
| 432 | WPKD370 | | | CBR | MAGNA GROUP | | |
| 433 | WPLE408 | 1022 LINCOLN TRAIL | FAIRVIE | CBR | ABBOTT | | |
| 434 | WPLE408 | | FAIRVIE | CBR | ABBOTT | | |
| 435 | KRS635 | 1.2 MILES NORTH OF BELLEVILLE, IL | SWANES | CBR | American | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|----------------------------------|-------------|--------------|----------------|-----------------|------------------|
| 436 | WPIM511 | SMELTING WORKS RD | BELLEVI | CBR | Arch Wireless | | |
| 437 | KNEM307 | CONT CABLEVISION RR 2 2 KM N | BELLEVI | CBR | Nextel License | | |
| 438 | WNSV616 | SMELTING WORKS RD N | BELLEVI | CBR | O FALLON | | |
| 439 | WNSV616 | | BELLEVI | CBR | O FALLON | | |
| 440 | WQAH919 | 9768 AIRPORT BLVD | MASCOU | CBR | SAINT CLAIR, | | |
| 441 | WQAJ441 | 9768 AIRPORT BLVD | MASCOU | CBR | SAINT CLAIR, | | |
| 442 | KZA672 | 3680 SHILOH STATION RD | SHILOH | CBR | KLL | | |
| 443 | KZA672 | | SHILOH | CBR | KLL | | |
| 444 | KFA356 | 300 S OF SHILOH RD 4.1 MI WNW OF | SHILOH | CBR | I E | | |
| 445 | KFA356 | | SHILOH | CBR | I E | | |
| 446 | KAZ391 | 2680 LEBANON AVE | SHILOH | CBR | ILLINI | | |
| 447 | KAZ391 | | SHILOH | CBR | ILLINI | | |
| 448 | WPLS436 | | | CBR | KLL | | |
| 449 | WPLX224 | 31 METERS S OF SHILOH RD 6 KM | SHILOH | CBR | KLL CORP | | |
| 450 | WPLX224 | | SHILOH | CBR | KLL CORP | | |
| 451 | WPLX225 | 91 METERS SOUTH OF SHILOH RD 6 | SHILOH | CBR | KLL CORP | | |
| 452 | WPLX225 | | SHILOH | CBR | KLL CORP | | |
| 453 | WPLX227 | 91 METERS SOUTH OF SHILOH RD 6 | SHILOH | CBR | KLL CORP | | |
| 454 | WPLX227 | | SHILOH | CBR | KLL CORP | | |
| 455 | KZW763 | 3680 SHILOH STATION RD | SHILOH | CBR | KLL | | |
| 456 | KZW763 | | SHILOH | CBR | KLL | | |
| 457 | WNYU873 | 91 MIETER S OF SHILOH RD .6 KM | SHILOH | CBR | KLL | | |
| 458 | WNYU873 | | SHILOH | CBR | KLL | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|----------------------------------|-------------|--------------|-------------------|-----------------|------------------|
| 459 | WPFH674 | 300 S SHILOH RD 4.1 MI WNW SCOTT | SHILOH | CBR | KLL Corporation | | |
| 460 | WPFH674 | | SHILOH | CBR | KLL Corporation | | |
| 461 | WPKQ536 | 91 M S OF SHILOH RD 6 KM WNW OF | SHILOH | CBR | KLL Corporation | | |
| 462 | WPKQ536 | | SHILOH | CBR | KLL Corporation | | |
| 463 | WPTY622 | 91 MELERS S OF SHILOH RD .6KM | SHILOH | CBR | KLL | | |
| 464 | WPTY622 | | SHILOH | CBR | KLL | | |
| 465 | WNBZ633 | 3680 SHILOH STATION RD | SHILOH | CBR | KLL WIRELESS | | |
| 466 | WNBZ633 | | SHILOH | CBR | KLL WIRELESS | | |
| 467 | WPKQ540 | 91 M S OF SHILOH RD 6 KM WNW OF | SHILOH | CBR | KLL Wireless, Inc | | |
| 468 | WPKQ540 | | SHILOH | CBR | KLL Wireless, Inc | | |
| 469 | WNGC341 | 3680 LEBANON AVE | SHILOH | CBR | Nextel License | | |
| 470 | WNGC341 | | SHILOH | CBR | Nextel License | | |
| 471 | WPLA272 | 3680 LEBANON AVE | SHILOH | CBR | NEXTEL | | |
| 472 | WPLA272 | | SHILOH | CBR | NEXTEL | | |
| 473 | KNJJ640 | 91 METERS S OF SHILOH RD 6 KM | SHILOH | CBR | PAKOSTA, ERIC | | |
| 474 | KNJJ640 | | SHILOH | CBR | PAKOSTA, ERIC | | |
| 475 | WRP782 | 300 S OF SHILOH RD & 4.1 MI WNW | SHILOH | CBR | SCHWENDS | | |
| 476 | WRP782 | | SHILOH | CBR | SCHWENDS | | |
| 477 | WNMU921 | 7401 WESTCHESTER DR | BELLEVI | CBR | HARMONY | | |
| 478 | WNMU921 | | BELLEVI | CBR | HARMONY | | |
| 479 | WNRI685 | RAILROAD MP 13.2 W | BELLEVI | CBR | Norfolk Southern | | |
| 480 | KNEB312 | 3200 OLD SAINT LOUIS RD | BELLEVI | CBR | VALHALLA | | |
| 481 | KNEB312 | | BELLEVI | CBR | VALHALLA | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|--------------------------------------|-------------|--------------|-------------------|-----------------|------------------|
| 482 | WPVB528 | 59th St RR crossing at MP 013.2W | Belleville | CBR | Norfolk Southern | | |
| 483 | WQIE249 | 6024 W Washington St. (Splish Splash | Belleville | CBR | METROPOLITAN | | |
| 484 | WQDT443 | | Belleville | CBR | Memorial Hospital | | |
| 485 | WQDU597 | 4500 Memorial Drive | belleville | CBR | Memorial Hospital | | |
| 486 | KLM9 | MIDAMERICA AIRPORT | MASCOU | CBR | SAINT CLAIR, | | |
| 487 | WPLR245 | 9768 Airport Blvd | MASCOU | CBR | SAINT CLAIR, | | |
| 488 | WPLR245 | | MASCOU | CBR | SAINT CLAIR, | | |
| 489 | WPPH823 | AIRPORT MAINTENANCE BLDG | MASCOU | CBR | SAINT CLAIR, | | |
| 490 | WPPH823 | | MASCOU | CBR | SAINT CLAIR, | | |
| 672 | WQEH354 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Cross Oil | | |
| 673 | WQEH354 | | Fairview | CBR | Cross Oil | | |
| 674 | WQEG726 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | D & L Towing | | |
| 675 | WQEG726 | | Fairview | CBR | D & L Towing | | |
| 676 | WQEH490 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Destination St | | |
| 677 | WQEH490 | | Fairview | CBR | Destination St | | |
| 678 | WQEH357 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Dierbergs Florist | | |
| 679 | WQEH357 | | Fairview | CBR | Dierbergs Florist | | |
| 680 | WQEH355 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Energy Petroleum | | |
| 681 | WQEH355 | | Fairview | CBR | Energy Petroleum | | |
| 682 | WQEH359 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | FHF Services | | |
| 683 | WQEH359 | | Fairview | CBR | FHF Services | | |
| 684 | WQEG727 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Froesel Oil | | |
| 685 | WQEG727 | | Fairview | CBR | Froesel Oil | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|----------------------------|-------------|--------------|------------------|-----------------|------------------|
| 686 | WQEH352 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Gamma Tree | | |
| 687 | WQEH352 | | Fairview | CBR | Gamma Tree | | |
| 688 | WQEG748 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Gateway Hotels | | |
| 689 | WQEG748 | | Fairview | CBR | Gateway Hotels | | |
| 690 | WQEH356 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Gateway Ready | | |
| 691 | WQEH356 | | Fairview | CBR | Gateway Ready | | |
| 692 | WQEG750 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Hankins Truck | | |
| 693 | WQEG750 | | Fairview | CBR | Hankins Truck | | |
| 694 | WQEG756 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Haskins | | |
| 695 | WQEG756 | | Fairview | CBR | Haskins | | |
| 696 | WQEG725 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Huntleigh | | |
| 697 | WQEG725 | | Fairview | CBR | Huntleigh | | |
| 698 | WPUZ469 | On Hwy 50 & Fairview Ht | Fairview | CBR | Huntleigh | | |
| 699 | WPUZ469 | | Fairview | CBR | Huntleigh | | |
| 700 | WQEG956 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | J E Redington Co | | |
| 701 | WQEG956 | | Fairview | CBR | J E Redington Co | | |
| 702 | WQEH361 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Landvatter Ready | | |
| 703 | WQEH361 | | Fairview | CBR | Landvatter Ready | | |
| 704 | WQEG957 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Lemay Concrete | | |
| 705 | WQEG957 | | Fairview | CBR | Lemay Concrete | | |
| 706 | WQEG962 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Leos B & T | | |
| 707 | WQEG962 | | Fairview | CBR | Leos B & T | | |
| 708 | WQEG963 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Liberty Cab Co | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|-----------------------------|-------------|--------------|------------------|-----------------|------------------|
| 709 | WQEG963 | | Fairview | CBR | Liberty Cab Co | | |
| 710 | WQEG757 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Mannino Truck | | |
| 711 | WQEG757 | | Fairview | CBR | Mannino Truck | | |
| 712 | WPXG657 | HWY 50 AND FAIRVIEW HEIGHTS | FAIRVIE | CBR | MEDSTAR | | |
| 713 | WPXG657 | | FAIRVIE | CBR | MEDSTAR | | |
| 714 | WQEG973 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Medstar | | |
| 715 | WQEG973 | | Fairview | CBR | Medstar | | |
| 716 | WQEG954 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Metropolitan | | |
| 717 | WQEG954 | | Fairview | CBR | Metropolitan | | |
| 718 | WQEG958 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Midwest Sanitary | | |
| 719 | WQEG958 | | Fairview | CBR | Midwest Sanitary | | |
| 720 | WQEG759 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | MTL Excavating | | |
| 721 | WQEG759 | | Fairview | CBR | MTL Excavating | | |
| 722 | WQEG964 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | MV Student | | |
| 723 | WQEG964 | | Fairview | CBR | MV Student | | |
| 724 | WQEG966 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | MV Student | | |
| 725 | WQEG966 | | Fairview | CBR | MV Student | | |
| 726 | WQEH365 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | MV Student | | |
| 727 | WQEH365 | | Fairview | CBR | MV Student | | |
| 728 | WQEG761 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Northwest Towing | | |
| 729 | WQEG761 | | Fairview | CBR | Northwest Towing | | |
| 730 | WQEG762 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Oats | | |
| 731 | WQEG762 | | Fairview | CBR | Oats | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|----------------------------|-------------|--------------|-------------------|-----------------|------------------|
| 732 | WQEG959 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | PCCA Missouri | | |
| 733 | WQEG959 | | Fairview | CBR | PCCA Missouri | | |
| 734 | WQEG967 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Quick Park | | |
| 735 | WQEG967 | | Fairview | CBR | Quick Park | | |
| 736 | WQEG728 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Rain Works Inc | | |
| 737 | WQEG728 | | Fairview | CBR | Rain Works Inc | | |
| 738 | WQEG953 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Raineri Building | | |
| 739 | WQEG953 | | Fairview | CBR | Raineri Building | | |
| 740 | WQEG955 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Reload Inc | | |
| 741 | WQEG955 | | Fairview | CBR | Reload Inc | | |
| 742 | WQEG974 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Renaissance | | |
| 743 | WQEG974 | | Fairview | CBR | Renaissance | | |
| 744 | WQEH391 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Renaissance | | |
| 745 | WQEH391 | | Fairview | CBR | Renaissance | | |
| 746 | WQEG976 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | S & H Parking | | |
| 747 | WQEG976 | | Fairview | CBR | S & H Parking | | |
| 748 | WQEG729 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Shaughnessy | | |
| 749 | WQEG729 | | Fairview | CBR | Shaughnessy | | |
| 750 | WQEG951 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Stanley Steamer | | |
| 751 | WQEG951 | | Fairview | CBR | Stanley Steamer | | |
| 752 | WQEG764 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Taylor Excavating | | |
| 753 | WQEG764 | | Fairview | CBR | Taylor Excavating | | |
| 754 | WQEG730 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Thoele Inc | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|-----------------------------------|-------------|--------------|------------------|-----------------|------------------|
| 755 | WQEG730 | | Fairview | CBR | Thoele Inc | | |
| 756 | WQEG733 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Touchette | | |
| 757 | WQEG733 | | Fairview | CBR | Touchette | | |
| 758 | WQEK497 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Wirelessusa | | |
| 759 | WQEK497 | | Fairview | CBR | Wirelessusa | | |
| 760 | WPUR258 | On Hy 50 & Fairview Ht | Fairview | CBR | Wirelessusa, Inc | | |
| 761 | WPUR258 | | Fairview | CBR | Wirelessusa, Inc | | |
| 762 | KWU229 | HWY 50, ONE MILE WEST OF | FAIRVIE | CBR | METAMORA | | |
| 763 | WQBD905 | 218 E. LINCOLN HIGHWAY | FAIRVIE | CBR | TREASURE | | |
| 764 | KRJ621 | ST CLAIR DR 1 MI E OF IL 157 1000 | FAIRVIE | CBR | Ameren Services | | |
| 765 | KRJ621 | | FAIRVIE | CBR | Ameren Services | | |
| 766 | WNMO496 | ST CLAIR DR 1 MI E OF IL 157 | FAIRVIE | CBR | Ameren Services | | |
| 767 | KNHH556 | 1 MI E ON INT HWY 50 & I61 | FAIRVIE | CBR | NEXTEL | | |
| 768 | KNHH556 | | FAIRVIE | CBR | NEXTEL | | |
| 769 | WNHJ701 | 1 MI E ON HWY 50 FROM INT HWYS | FAIRVIE | CBR | NEXTEL | | |
| 770 | WNHJ701 | | FAIRVIE | CBR | NEXTEL | | |
| 771 | WPLA266 | 1 MI E ON INT HWY 50 & I61 | FAIRVIE | CBR | NEXTEL | | |
| 772 | WPLA266 | | FAIRVIE | CBR | NEXTEL | | |
| 773 | WPDR512 | 493 HWY 501 MI E INT HWY 50 AND | FAIRVIE | CBR | Wirelessusa | | |
| 774 | WPDR512 | | | CBR | Wirelessusa | | |
| 775 | WPDR512 | | | CBR | Wirelessusa | | |
| 776 | WPDR512 | | FAIRVIE | CBR | Wirelessusa | | |
| 777 | KSD342 | 626 LINCOLN HWY | FAIRVIE | CBR | FAIRVIEW | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|-----------------------------------|-------------|--------------|------------------|-----------------|------------------|
| 778 | KSD342 | | | CBR | FAIRVIEW | | |
| 779 | WPZB212 | 956 TALON DRIVE | O'FALLON | CBR | OREILLY | | |
| 780 | WPZB212 | | O'FALLON | CBR | OREILLY | | |
| 781 | WNBV250 | RR AND SR CROSSING | O FALLON | CBR | CSX | | |
| 782 | KKK719 | 106 W STATE ST | O FALLON | CBR | O FALLON | | |
| 783 | WPZB219 | 1702 W. HIGHWAY 50 | O'FALLON | CBR | BL DINING, LLC | | |
| 784 | WPRJ707 | 10110 OLD LINCOLN TRAIL | FAIRVIE | CBR | COMMUNITY | | |
| 785 | WPRJ707 | | FAIRVIE | CBR | COMMUNITY | | |
| 786 | WPU965 | 10601 LINCOLN TRAIL | FAIRVIE | CBR | O'REILLY | | |
| 787 | WPU965 | | FAIRVIE | CBR | O'REILLY | | |
| 788 | KSF753 | 2897 FALLING SPRINGS RD | SAUGET | CBR | SAUGET, | | |
| 789 | KD36546 | | | CBR | J C PENNEY CO | | |
| 790 | WAU66 | 2450 VALLEY JCT LANE, YARD | EAST | CBR | UNION PACIFIC | | |
| 791 | WPSU976 | 321 SOUTHERN DR | LEBANON | CBR | NEXTEL | | |
| 792 | WPSU976 | | LEBANON | CBR | NEXTEL | | |
| 793 | KSD706 | M W TWR UP YD 20TH & CENTRAL | EAST | CBR | UNION PACIFIC | | |
| 794 | KSD706 | | EAST | CBR | UNION PACIFIC | | |
| 795 | KWE463 | ROUNDHOUSE BLDG ALTON & S RR | EAST | CBR | ALTON & | | |
| 491 | WPMK572 | 9768 Airport Blvd | MASCOU | CBR | ST CLAIR, | | |
| 492 | WPMK572 | | MASCOU | CBR | ST CLAIR, | | |
| 493 | KNNS825 | | | CBR | ST CLAIR | | |
| 494 | KNNS825 | | | CBR | ST CLAIR | | |
| 495 | WPYK979 | Foley Dr RR crossing @ MP 012.85W | Belleville | CBR | Norfolk Southern | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|---------------------------------|-------------|--------------|-----------------|-----------------|------------------|
| 496 | WPKD958 | | | CBR | TAMARACK | | |
| 497 | KBO319 | 2525 MOUSETTE LN | CAHOKI | CBR | COMMONFIELDS | | |
| 498 | KBO319 | | CAHOKI | CBR | COMMONFIELDS | | |
| 499 | WNB472 | 144 HUNTWOOD RD | SWANSE | CBR | SWANSEA, | | |
| 500 | WNB472 | | SWANSE | CBR | SWANSEA, | | |
| 501 | WPCK909 | 144 HUNTWOOD RD | SWANSE | CBR | SWANSEA, | | |
| 502 | WPCK909 | | SWANSE | CBR | SWANSEA, | | |
| 503 | KNKA234 | SHILOH; ROUTE 2, COUNTY | BELLEVI | CBR | CYBERTEL | | |
| 504 | KNEZ910 | 10119 PERRIN RD | MASCOU | CBR | KNOBELOCH, | | |
| 505 | KNKA234 | RT 2 COUNTY HIGHWAY 44 | SHILOH | CBR | CYBERTEL | | |
| 506 | WHO892 | 4125 LEBANON RD | SHILOH | CBR | CYBERTEL | | |
| 507 | WPRX885 | 125 HUNTWOODS RD | SWANSE | CBR | WOLF BRANCH | | |
| 508 | WPRX885 | | SWANSE | CBR | WOLF BRANCH | | |
| 509 | WPZJ357 | On MidAmerica Airport, 9656 Air | Mascouta | CBR | Centurion | | |
| 510 | WQCK459 | 5744 TAMAROA LANE | BELLEVI | CBR | ILLINOIS, STATE | | |
| 511 | WQCK459 | | BELLEVI | CBR | ILLINOIS, STATE | | |
| 512 | WPUR564 | 1512 FLANAGAN ROAD | BELLEVI | CBR | SAINT CLAIR | | |
| 513 | KSF817 | 1512 Flanagan Road | Belleville | CBR | SAINT CLAIR, | | |
| 514 | WQAH919 | 152 FLANAGAN ROAD | BELLEVI | CBR | SAINT CLAIR, | | |
| 515 | WQAJ441 | 1512 FLANAGAN ROAD | BELLEVI | CBR | SAINT CLAIR, | | |
| 516 | WQCQ940 | 1512 Flanagan Road | Belleville | CBR | ST. CLAIR, | | |
| 517 | WPXG583 | MP 3 NORTH DUPO YD | DUPO | CBR | Union Pacific | | |
| 518 | WPXG583 | | DUPO | CBR | Union Pacific | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|-----------------------------|-------------|--------------|-------------------|-----------------|------------------|
| 519 | WNVC804 | 1403 CAMP JACKSON RD | CAHOKI | CBR | BAUR, WAYNE L | | |
| 520 | WPPR348 | 1 HILL ST | SHILOH | CBR | NEXTEL | | |
| 521 | WPPR348 | | SHILOH | CBR | NEXTEL | | |
| 522 | WPCH893 | 105 HILL | SHILOH | CBR | SHILOH, | | |
| 523 | WPCH893 | | SHILOH | CBR | SHILOH, | | |
| 524 | WPMS465 | 1 HILL ST | SHILOH | CBR | WUEBBLES | | |
| 525 | WPMS465 | | SHILOH | CBR | WUEBBLES | | |
| 526 | WQIE204 | 9481 Demazenod Road | Belleville | CBR | METROPOLITAN | | |
| 527 | WPQH289 | 9486 N DEMAZENOD DR A | BELLEVI | CBR | NEXTEL | | |
| 528 | WPQH289 | | BELLEVI | CBR | NEXTEL | | |
| 529 | WPMS698 | | | CBR | CAHOKIA, CITY | | |
| 530 | WQN750 | MULLENS ELEVATED WATER TANK | CAHOKI | CBR | CAHOKIA, CITY | | |
| 531 | WQN750 | | CAHOKI | CBR | CAHOKIA, CITY | | |
| 532 | WQW620 | 9500 W ST RT 15 | BELLEVI | CBR | APT COMM OF | | |
| 533 | KNBQ577 | 5825 W ST RT 161 | BELLEVI | CBR | HANKS | | |
| 534 | KNBQ577 | | BELLEVI | CBR | HANKS | | |
| 535 | WLV959 | 107 OAK ST | SHILOH | CBR | New Cingular | | |
| 536 | WPXE498 | | Shiloh | CBR | Target Store 1539 | | |
| 537 | WQIW636 | | BELLEVI | CBR | ST. CLAIR | | |
| 538 | KSG990 | 5800 BOND AVE | CENTRE | CBR | CENTREVILLE, | | |
| 539 | WPLV599 | 5800 BOND AVE | CENTRE | CBR | CENTREVILLE, | | |
| 540 | WPLV599 | | CENTRE | CBR | CENTREVILLE, | | |
| 541 | WNIZ968 | 5800 BOND AVE | CENTRE | CBR | CHURCH ROAD | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|-----------------------------------|-------------|--------------|---------------------|-----------------|------------------|
| 542 | WPMR632 | MP 287.2, SPG SUB, AEI 874, | CAHOKI | CBR | UNION PACIFIC | | |
| 543 | WPJE362 | 9500 W ST RT 15 | BELLEVI | CBR | MISSIONARY | | |
| 544 | KMK409 | 9541 CHURCH CIR | BELLEVI | CBR | ABBOTT | | |
| 545 | KMK409 | | BELLEVI | CBR | ABBOTT | | |
| 546 | KPJ783 | 9500 W. IL RT 15 | BELLEVI | CBR | BONNEVILLE | | |
| 547 | KEC362 | 9500 W IL RT 15 | BELLEVI | CBR | ILLINOIS BELL | | |
| 548 | WQID996 | 1002 REAR CAMP JACKSON RD. | CAHOKI | CBR | METROPOLITAN | | |
| 549 | WPVB528 | SR-157 RR crossing at MP 008.80W | Centervill | CBR | Norfolk Southern | | |
| 550 | KSH765 | 1400 DORIS AVE | CAHOKI | CBR | CAHOKIA VOL | | |
| 551 | KSH765 | | CAHOKI | CBR | CAHOKIA VOL | | |
| 552 | WQCQ465 | 15 JOHNSON PLACE | BELLEVI | CBR | DURHAM | | |
| 553 | WQCQ465 | | BELLEVI | CBR | DURHAM | | |
| 554 | KNFX797 | 15 JOHNSON PLACE | BELLEVI | CBR | PULCHER | | |
| 555 | WRE7 | BI STATE PARKS AIRPORT | EAST | CBR | Aviation | | |
| 556 | KFU5 | ST. LOUIS DOWNTOWN PARKS | SAUGET | CBR | IDEAL AVIATION | | |
| 557 | KFQ438 | GWWR RR ADMIN BLDG 1700 S 20TH | EAST | CBR | GATEWAY | | |
| 558 | WNZU780 | 3810 N ILLINOIS ST | BELLEVI | CBR | First Student, Inc. | | |
| 559 | WFY345 | 1 MI S OF RT 50 ON RT 158 & 500 E | LEBANON | CBR | STOCK, ROBERT | | |
| 560 | KIZ292 | 5900 BOND AVE | EAST | CBR | TOUCHETTE | | |
| 561 | WPCM968 | MP 02.1 344 345 VALLEY JCT 1 & 2 | MAPLEW | CBR | UNION PACIFIC | | |
| 562 | WNFD514 | 564 MILDRED AVE | CAHOKI | CBR | UPCHURCH OIL | | |
| 563 | WPJW899 | 103 MAIN ST | CAHOKI | CBR | CAHOKIA, CITY | | |
| 564 | WPJW899 | | CAHOKI | CBR | CAHOKIA, CITY | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|---------------------------------|-------------|--------------|---------------|-----------------|------------------|
| 565 | WQN750 | 103 MAIN ST | CAHOKI | CBR | CAHOKIA, CITY | | |
| 566 | KGR904 | 1426 OLD DUTCH HOLLOW RD | BELLEVI | CBR | BRUTTO TRUCK | | |
| 567 | KSA477 | | BELLEVI | CBR | BELLEVILLE, | | |
| 568 | WPFA897 | 5000 NO ILLINOIS | FAIRVIE | CBR | LAKEVIEW | | |
| 569 | WPFA897 | | FAIRVIE | CBR | LAKEVIEW | | |
| 570 | WQBY381 | | CENTRE | CBR | Caliber | | |
| 571 | WQGZ291 | 5 Oak Ridge Ct | Fairview | CBR | Caseyville | | |
| 572 | WQGZ214 | Wesleyan Dr at Colston Dr | Swansea | CBR | Caseyville | | |
| 573 | KSG422 | 329 HAZEL AVE | BELLEVI | CBR | SIGNAL HILL | | |
| 574 | WQGZ290 | Northwestern Ave at Clemson Ave | Fairview | CBR | Caseyville | | |
| 575 | WNYZ544 | 4501 N PARK DR | BELLEVI | CBR | MEMORIAL | | |
| 576 | WNYZ544 | | BELLEVI | CBR | MEMORIAL | | |
| 577 | WPGS627 | 4501 N PARK DR | BELLEVI | CBR | MEMORIAL | | |
| 578 | WPGS627 | | BELLEVI | CBR | MEMORIAL | | |
| 579 | WPTS302 | | CAHOKI | CBR | MIDCOAST | | |
| 580 | WXR509 | 3701 FALLING SPRINGS RD | CAHOKI | CBR | BRAUN | | |
| 581 | WND5 | ST LOUIS DOWNTOWN AIRPORT | CAHOKI | CBR | BI-STATE DEV | | |
| 582 | WPVC317 | 10 PITZMAN AVE | SAUGET | CBR | PEAVEY | | |
| 583 | WPVC317 | | SAUGET | CBR | PEAVEY | | |
| 584 | WNYH601 | 1700 JEROME LN | CAHOKI | CBR | CAHOKIA | | |
| 585 | WNYH601 | | CAHOKI | CBR | CAHOKIA | | |
| 586 | WPGM434 | | | CBR | PEAVEY | | |
| 587 | WPZA560 | PARKS COLLEGE OF SAINT LOUIS | CAHOKI | CBR | PARKS | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|-----------------------------------|-------------|--------------|------------------|-----------------|------------------|
| 588 | WQGZ290 | 1 Hollandia Dr | Fairview | CBR | Caseyville | | |
| 589 | WQGZ214 | Jade Dr at Terrace Green Ln | O Fallon | CBR | Caseyville | | |
| 590 | KFT525 | 4821 BOND AVE | EAST | CBR | ALORTON | | |
| 591 | WPVB528 | Jarvis Place Rd RR crossing at MP | Alorton | CBR | Norfolk Southern | | |
| 592 | KFQ438 | GWWR RR TERM SUPT OFC 1700 S | EAST | CBR | GATEWAY | | |
| 593 | WQGZ291 | Legend Ct at Arrow Ridge Dr | O Fallon | CBR | Caseyville | | |
| 594 | KFQ438 | GWWR RR MECH OFC 1700 S 20TH ST | EAST | CBR | GATEWAY | | |
| 595 | WPWZ345 | | East | CBR | Kansas City | | |
| 596 | WNPDP728 | MASCOUTAH MTG PT STA 15 1.6 KM S | SUMMER | CBR | CLINTON | | |
| 597 | KFQ438 | GWWR RR AGENCY OFC 1700 S | EAST | CBR | GATEWAY | | |
| 598 | WYC682 | 164 .7 MI S | O FALLON | CBR | ILLINOIS, STATE | | |
| 599 | WMR720 | 4800 MISSOURI AVE | ALORTON | CBR | New Cingular | | |
| 600 | WQGZ214 | End of St Clair Rd at Deppe Ln | Fairview | CBR | Caseyville | | |
| 601 | WPPN952 | 10338 LINCOLN TRAIL | FAIRVIE | CBR | GIL KLEIN TV & | | |
| 602 | WPPN952 | | FAIRVIE | CBR | GIL KLEIN TV & | | |
| 603 | WPTW779 | 15 Judith Lane | Cahokia | CBR | Maverick | | |
| 604 | WPTW779 | | Cahokia | CBR | Maverick | | |
| 605 | WPPT549 | | | CBR | PONTIAC WM | | |
| 606 | WPPT833 | 600 S. SMILEY ST. | O FALLON | CBR | O FALLON TWP | | |
| 607 | WPPT833 | | O FALLON | CBR | O FALLON TWP | | |
| 608 | KDP208 | RETARDER TOWER EAST END OF | EAST | CBR | ALTON & | | |
| 609 | KEN359 | RETARDER TOWER EAST END OF | EAST | CBR | ALTON & | | |
| 610 | KRT937 | E END ALTON & SOUTHERN | EAST | CBR | ALTON & | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|----------------------------|-------------|--------------|---------------------|-----------------|------------------|
| 611 | KH5765 | East end of A&S RR YDS | East St. | CBR | ALTON & | | |
| 612 | KNEF499 | N Hump TWR E end A&S YDS | EAST | CBR | ALTON & | | |
| 613 | WNIZ968 | 1033 S 41ST | CENTRE | CBR | CHURCH ROAD | | |
| 614 | WPWA688 | N HUMP TOWER 1000S 22ND ST | EAST ST. | CBR | UNION PACIFIC | | |
| 615 | WPWA688 | | EAST ST. | CBR | UNION PACIFIC | | |
| 616 | KB41739 | | | CBR | SOLVAY | | |
| 617 | KSD728 | #6 COMMERCE DR | O FALLON | CBR | KILIAN | | |
| 618 | KSD728 | | O FALLON | CBR | KILIAN | | |
| 619 | WQDZ896 | | FAIRVIE | CBR | GAP INC | | |
| 620 | WPJM305 | | | CBR | VEOLIAES | | |
| 621 | WQD377 | 528 W 5TH ST | O FALLON | CBR | O FALLON | | |
| 622 | WQD377 | | O FALLON | CBR | O FALLON | | |
| 623 | KNDA806 | 3300 MISSISSIPPI AVE | EAST | CBR | ConocoPhillips | | |
| 624 | KNDA806 | | EAST | CBR | ConocoPhillips | | |
| 625 | WPNT207 | | | CBR | Fazolis | | |
| 626 | WQFC970 | 200 North 74th Street | Centrevill | CBR | MIDWAY FIRE | | |
| 627 | WQFC970 | | Centrevill | CBR | MIDWAY FIRE | | |
| 628 | WPYX493 | 1200 QUEENY STREET | SAUGET | CBR | WIESE | | |
| 629 | KGS464 | 530 W FIFTH ST | O FALLON | CBR | Jet Precast, Inc. | | |
| 630 | WNZU780 | 8500 STATE ST | EAST | CBR | First Student, Inc. | | |
| 631 | WNZU780 | | EAST | CBR | First Student, Inc. | | |
| 632 | WQCQ828 | 15 CANTY LANE | FAIRVIE | CBR | SOUTHEASTERN | | |
| 633 | WNFK406 | 15 Canty Lane | Fairview | CBR | EGYPTIAN | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|----------------------------|-------------|--------------|------------------|-----------------|------------------|
| 634 | WPLL848 | | | CBR | PET O FALLON | | |
| 635 | KNCC436 | 801 E STATE ST | O FALLON | CBR | O FALLON, | | |
| 636 | WPRX330 | 1117 REESE ROAD | LEBANON | CBR | METRO | | |
| 637 | WPRX330 | | LEBANON | CBR | METRO | | |
| 638 | WQHD876 | 1706 West Highway 50 | O'Fallon | CBR | HOME DEPOT | | |
| 639 | KQV649 | HWY 3 ALTON & SOUTHERN RR | SAUGET | CBR | CERRO COPPER | | |
| 640 | KQV649 | | SAUGET | CBR | CERRO COPPER | | |
| 641 | KD20851 | | | CBR | CERRO COPPER | | |
| 642 | WNIZ630 | ON HWY 50 BET FRWW HGTS | FAIRVIE | CBR | FEDERAL | | |
| 643 | WNIZ630 | | FAIRVIE | CBR | FEDERAL | | |
| 644 | WQEF745 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | A-1 Towing | | |
| 645 | WQEF745 | | Fairview | CBR | A-1 Towing | | |
| 646 | WQEF739 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Alro Heating & | | |
| 647 | WQEF739 | | Fairview | CBR | Alro Heating & | | |
| 648 | WQEJ634 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Aspen Waste | | |
| 649 | WQEJ634 | | Fairview | CBR | Aspen Waste | | |
| 650 | WQEH360 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | B & W Police | | |
| 651 | WQEH360 | | Fairview | CBR | B & W Police | | |
| 652 | WQEG614 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Bauman Oil Dist | | |
| 653 | WQEG614 | | Fairview | CBR | Bauman Oil Dist | | |
| 654 | WQEH364 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Beelman Trucking | | |
| 655 | WQEH364 | | Fairview | CBR | Beelman Trucking | | |
| 656 | WQEH363 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Bill Williams | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|-----------------------------|-------------|--------------|---------------------|-----------------|------------------|
| 657 | WQEH363 | | Fairview | CBR | Bill Williams | | |
| 658 | WQEH366 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Bills Wrecker | | |
| 659 | WQEH366 | | Fairview | CBR | Bills Wrecker | | |
| 660 | WQEH358 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Buchholz | | |
| 661 | WQEH358 | | Fairview | CBR | Buchholz | | |
| 662 | WQEH362 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Budget Car | | |
| 663 | WQEH362 | | Fairview | CBR | Budget Car | | |
| 664 | WQEG615 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Budget Towing | | |
| 665 | WQEG615 | | Fairview | CBR | Budget Towing | | |
| 666 | WQEG586 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Busken | | |
| 667 | WQEG586 | | Fairview | CBR | Busken | | |
| 668 | WQEG588 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | CITIPARK | | |
| 669 | WQEG588 | | Fairview | CBR | CITIPARK | | |
| 670 | WQEG585 | On Hwy. 50 & Fairview Hgt. | Fairview | CBR | Citipark Drury | | |
| 671 | WQEG585 | | Fairview | CBR | Citipark Drury | | |
| 796 | WYF368 | NUMBER 3 MARKET PLACE | FAIRVIE | CBR | TARGET STORES | | |
| 797 | WNLC298 | 200 E OF BERENS ELM ST INT | O FALLON | CBR | O FALLON, CITY | | |
| 798 | WNLC298 | | O FALLON | CBR | O FALLON, CITY | | |
| 799 | WPSF598 | 149 SAINT ELLYN | O FALLON | CBR | First Student, Inc. | | |
| 800 | WPSF598 | | O FALLON | CBR | First Student, Inc. | | |
| 801 | WPVY306 | MP 283.8 Along KCS Tracks | East St. | CBR | Kansas City | | |
| 802 | WPWU463 | | FAIRVIE | CBR | MARK D | | |
| 803 | WIA925 | MONSANTO CO,KRUMMRICH PLANT | SAUGET | CBR | Solutia, Inc. | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|-----------------------------|-------------|--------------|-------------------|-----------------|------------------|
| 804 | KNJN980 | RR MP 311.9 | SUMMER | CBR | CSX | | |
| 805 | WPLG857 | | | CBR | ILLINOIS | | |
| 806 | WQBX370 | 7 MOBILE AVE | SAUGET | CBR | VEOLIAES | | |
| 807 | WQBX370 | | SAUGET | CBR | VEOLIAES | | |
| 808 | WPQY258 | 3500 MO AVE | ALORTON | CBR | SOLVAY | | |
| 809 | KB28822 | | | CBR | CBL AND ASSOC | | |
| 810 | KNAR525 | | O FALLON | CBR | O FALLON, CITY | | |
| 811 | KNAR525 | 285 N. 7 HILLS RD. | O FALLON | CBR | O FALLON, CITY | | |
| 812 | WYG960 | 9301 SAINT CLAIR AVE | FAIRVIE | CBR | Illinois-American | | |
| 813 | WYG960 | | | CBR | Illinois-American | | |
| 814 | WNPC751 | 1 ECOLOGY DR | O FALLON | CBR | CASEYVILLE, | | |
| 815 | WNPC751 | | | CBR | CASEYVILLE, | | |
| 816 | WPUB636 | MONSANTO AVENUE AND ROUTE 3 | SAUGET | CBR | SOLUTIA INC | | |
| 817 | WPUB636 | | SAUGET | CBR | SOLUTIA INC | | |
| 818 | WQGZ214 | 1 Ecology Dr | O Fallon | CBR | Caseyville | | |
| 819 | WNNN691 | 7 MOBIL DR | SAUGET | CBR | VEOLIAES | | |
| 820 | WNNN691 | | SAUGET | CBR | VEOLIAES | | |
| 821 | WPGN771 | | | CBR | VEOLIAES | | |
| 822 | KB87594 | | | CBR | Solutia, Inc. | | |
| 823 | WNDZ258 | MONSANTO AVE & HWY 1 | SOUTH | CBR | Solutia, Inc. | | |
| 824 | WNDZ258 | | SOUTH | CBR | Solutia, Inc. | | |
| 825 | WQC738 | MONSANTO PLANT ROUTE 3 | SAUGET | CBR | Solutia, Inc. | | |
| 826 | KWE359 | 10025 BUNKUM RD | FAIRVIE | CBR | FAIRVIEW | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|---------------------------------|-------------|--------------|-------------------|-----------------|------------------|
| 827 | WHG607 | 10271 LINCOLN TRAIL | FAIRVIE | CBR | METRO EAST | | |
| 828 | WNNN691 | 3/4 MI SW OF IL HWY 3 & MAISAU | SAUGET | CBR | VEOLIAES | | |
| 829 | KGK474 | 1269 N 89TH ST | FAIRVIE | CBR | ILLINOIS, STATE | | |
| 830 | WNGV462 | 10025 BUNKUM RD | FAIRVIE | CBR | FAIRVIEW | | |
| 831 | WNGV462 | | FAIRVIE | CBR | FAIRVIEW | | |
| 832 | WQFF237 | 245 ST. CLAIR SQ | FAIRVIE | CBR | JCPENNEY | | |
| 833 | WNXD608 | | | CBR | FAIRVIEW | | |
| 834 | WNLC299 | 118 E WASHINGTON ST | O FALLON | CBR | O FALLON, CITY | | |
| 835 | WNLC299 | | O FALLON | CBR | O FALLON, CITY | | |
| 836 | KSC574 | | O FALLON | CBR | O FALLON, CITY | | |
| 837 | KSC574 | E WASHINGTON & N LINCOLN STS | O FALLON | CBR | O FALLON, CITY | | |
| 838 | WSW791 | 118 E WASHINGTON | O FALLON | CBR | O FALLON, CITY | | |
| 839 | WSW791 | | O FALLON | CBR | O FALLON, CITY | | |
| 840 | WQGZ290 | 199 Mark Dr | Fairview | CBR | Caseyville | | |
| 841 | WQHM312 | | Fairview | CBR | Toys R Us Inc | | |
| 842 | WPEE519 | | | CBR | Afton Chemical | | |
| 843 | KSE993 | GEN OFC BLD, 1000 South 22nd St | EAST | CBR | ALTON & | | |
| 844 | KSA422 | GENERAL OFC BLDG 1000 S 22ND ST | EAST | CBR | ALTON & | | |
| 845 | WQCR515 | | SAUGET | CBR | ADM Growmark | | |
| 846 | WPZX292 | | O Fallon | CBR | O Fallon, City of | | |
| 847 | WIA924 | MONSANTO CO KRUMMERICH | SAUGET | CBR | Solutia, Inc. | | |
| 848 | WQIL360 | 81 LUDWIG DRIVE | FAIRVIE | CBR | GORDMANS | | |
| 849 | WPSG791 | 8895 CALIFORNIA DR | CASEYV | CBR | STONE WHEEL | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|--------------------------------------|-------------|--------------|----------------|-----------------|------------------|
| 850 | WPSG791 | | CASEYV | CBR | STONE WHEEL | | |
| 851 | WNFD514 | 2901 MISSOURI AVE | EAST | CBR | UPCHURCH OIL | | |
| 852 | WMQ576 | 100 LUDWIG DR | FAIRVIE | CBR | CYBERTEL | | |
| 853 | WQIE243 | 10373 N Rieder Road (East O' Fallon | O' Fallon | CBR | METROPOLITAN | | |
| 854 | WNNO713 | MONSANTO DR | SAUGET | CBR | Afton Chemical | | |
| 855 | WPKW387 | 3126 MISSOURI AVE | EAST | CBR | METRO EAST | | |
| 856 | WPKW387 | | EAST | CBR | METRO EAST | | |
| 857 | KTS202 | 100 Ludwig Drive | FAIRVIE | CBR | American | | |
| 858 | WPYU685 | 200 W. SCHUETZ ST. | LEBANON | CBR | LEBANON | | |
| 859 | WPYU685 | | LEBANON | CBR | LEBANON | | |
| 860 | WRB354 | IL RT 3 & MONSANTO AVE | SAUGET | CBR | BIG RIVER ZINC | | |
| 861 | WPYW797 | | FAIRVIE | CBR | FOUR POINTS | | |
| 862 | WRB354 | IL RT 3 & MONSANTO AVE | SAUGET | CBR | BIG RIVER ZINC | | |
| 863 | WRB354 | | | CBR | BIG RIVER ZINC | | |
| 864 | WNKK860 | 2 MONSANTO DR | SAUGET | CBR | CAHOKIA | | |
| 865 | WNKK860 | | | CBR | CAHOKIA | | |
| 866 | KNHQ462 | 1362 PORTER RD | OFALLO | CBR | KOMBRINK | | |
| 867 | WPPQ451 | 40 SPIVEY LN A | FAIRVIE | CBR | NEXTEL | | |
| 868 | WPPQ451 | | FAIRVIE | CBR | NEXTEL | | |
| 869 | KNIZ465 | 312 W ST LOUIS STREET | LEBANON | CBR | LEBANON, CITY | | |
| 870 | KNIZ465 | | LEBANON | CBR | LEBANON, CITY | | |
| 871 | WPGV960 | 312 W ST LOUIS ST | LEBANON | CBR | LEBANON, CITY | | |
| 872 | WPGV960 | | LEBANON | CBR | LEBANON, CITY | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|------------------------------------|-------------|--------------|-------------------|-----------------|------------------|
| 873 | WPHW804 | | | CBR | LEBANON, CITY | | |
| 874 | KNJC605 | 312 W ST LOUIS ST | LEBANON | CBR | | | |
| 875 | KNJC605 | | LEBANON | CBR | | | |
| 876 | KSF299 | 312 W ST LOUIS ST | LEBANON | CBR | Lebanon-Emerald | | |
| 877 | WPSW632 | 1600 NORTH 89TH ST | FAIRVIE | CBR | NEXTEL | | |
| 878 | WPSW632 | | FAIRVIE | CBR | NEXTEL | | |
| 879 | WNTW418 | VARIOUS LOCATIONS | LEBANON | CBR | Ameren Services | | |
| 880 | WPLF293 | | | CBR | MC DONALDS | | |
| 881 | WQIN634 | 1402 2ND AVE | FAIRVIE | CBR | FRENCH | | |
| 882 | WQIN634 | | FAIRVIE | CBR | FRENCH | | |
| 883 | WPGK511 | | | CBR | ELEMENTIS | | |
| 884 | KRJ621 | 330 N 29TH ST | EAST | CBR | Ameren Services | | |
| 885 | WQGP353 | | Fairview | CBR | Holy Trinity | | |
| 886 | WQGZ291 | End of Huntleigh Dr at Estella Ln | Fairview | CBR | Caseyville | | |
| 887 | WPTC487 | 419 N. 35th Street | Centrevill | CBR | CyberTel Cellular | | |
| 888 | WQGZ214 | Seagate Dr at Lowe Ln | O Fallon | CBR | Caseyville | | |
| 889 | WJD60 | RR YD SE ON BROADWAY | EAST | CBR | NORFOLK | | |
| 890 | KSF817 | .6 MI. SW OF INT. OF 18TH ST. & SR | E. ST. | CBR | SAINT CLAIR, | | |
| 891 | WQAH920 | 18TH STREET & BROADWAY | EAST | CBR | SAINT CLAIR, | | |
| 892 | WQAJ442 | 18TH STREET & BROADWAY | ST | CBR | SAINT CLAIR, | | |
| 893 | WQCQ940 | .6 MI. SW OF INT. OF 18TH ST. & SR | E. ST. | CBR | ST. CLAIR, | | |
| 894 | WPZZ236 | Missouri Avenue RR crossing @ MP | E St. | CBR | Norfolk Southern | | |
| 895 | WQFU980 | | East | CBR | Missouri RSA 8 | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|------------------------------------|-------------|--------------|-------------------|-----------------|------------------|
| 896 | WQIH709 | ST. Louis Ave RD crossing @ RR MP | East St. | CBR | Norfolk Southern | | |
| 897 | WQGZ290 | Pleasant Ridge at E O Fallon Dr | Fairview | CBR | Caseyville | | |
| 898 | WNHL492 | HWY 50 2 MI W & 1.5 MI N | O FALLON | | CBR | KOMBRINK, | |
| 899 | WNHL492 | | O FALLON | | CBR | KOMBRINK, | |
| 900 | WQDN870 | 2708 State Street | East | CBR | East Saint Louis, | | |
| 901 | WQDN870 | | East | CBR | East Saint Louis, | | |
| 902 | WQDN870 | | East | CBR | East Saint Louis, | | |
| 903 | WQIE203 | 1500 Walnut St. | East | CBR | METROPOLITAN | | |
| 904 | WQAT702 | 144 N 16TH ST | EAST ST. | CBR | FCI 900, INC. | | |
| 905 | WQAT702 | | EAST ST. | CBR | FCI 900, INC. | | |
| 906 | WQGZ290 | 450 Wiegerstown Dr | O Fallon | CBR | Caseyville | | |
| 907 | WNKK323 | MILBURN RD & PAUSCH RD | CASEYV | CBR | FEIG FARMS | | |
| 908 | WNKK323 | | CASEYV | CBR | FEIG FARMS | | |
| 909 | WXC629 | MILBRUN RD & PAUSCH RD | CASEYV | CBR | MUNIE, FRED | | |
| 910 | WNBS242 | MILBURN RD & PAUSCH RD | CASEYV | CBR | OBERNUEFERM | | |
| 911 | WNBS242 | | CASEYV | CBR | OBERNUEFERM | | |
| 912 | WNBL692 | SR 159 AT MILBURN RD | CASEYV | CBR | Ridge Prairie | | |
| 913 | WNBL692 | | CASEYV | CBR | Ridge Prairie | | |
| 914 | WPYS893 | | CASEYV | CBR | HARDEE'S | | |
| 915 | WNPM798 | 6200 ROCK SPRINGS RD | EAST | CBR | WEISSERT, CARL | | |
| 916 | WNPM798 | | EAST | CBR | WEISSERT, CARL | | |
| 917 | WDP949 | 1/4 MI N MILBURN RD 1/2 MI E IL RT | CASEYV | CBR | MUNIE, FRED | | |
| 918 | WPKI282 | 701 COLLEGE AVE | LEBANON | | CBR | MCKENDREE | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|-------------------------------|-------------|--------------|-------------------|-----------------|------------------|
| 919 | WPKI282 | | LEBANON | | CBR | MCKENDREE | |
| 920 | WQGN649 | 701 COLLEGE RD | LEBANON | | CBR | MCKENDREE | |
| 921 | WQGN649 | | LEBANON | | CBR | MCKENDREE | |
| 922 | WPGZ824 | 950 KINGSHIGHWAY | EDGEMO | CBR | ILLINOIS, STATE | | |
| 923 | WPHB835 | 950 KINGSHIGHWAY | EDGEMO | CBR | ILLINOIS, STATE | | |
| 924 | WPLL921 | | | CBR | FAR OAKS GOLF | | |
| 925 | WPTS560 | 801 N 47th St | East St. | CBR | Bi-State | | |
| 926 | WPTS560 | | East St. | CBR | Bi-State | | |
| 927 | WQCE583 | ROUTE 3 & MONSANTO AVE. | SAUGET | CBR | BIG RIVER ZINC | | |
| 928 | WPQI870 | | | CBR | BIG RIVER ZINC | | |
| 929 | WMN399 | 6150 BUNKHAM RD | WASHIN | CBR | New Cingular | | |
| 930 | WQAM346 | 601 J.R. THOMPSON DRIVE | EAST ST. | CBR | SOUTHERN | | |
| 931 | WQAM346 | | EAST ST. | CBR | SOUTHERN | | |
| 932 | WQGZ290 | Far Oaks Dr S of Champions Ct | Fairview | CBR | Caseyville | | |
| 933 | WPZK319 | 419 OLD COLLINSVILLE ROAD | CASEYV | CBR | ProLink Solutions | | |
| 934 | WQDK244 | | East St | CBR | Southern Illinois | | |
| 935 | KIZ303 | 129 N 8TH ST | EAST | CBR | ST MARYS | | |
| 936 | WQCM581 | 129 NORTH 8TH STREET | EAST ST | CBR | KENNETH HALL | | |
| 937 | WQCM581 | | EAST ST | CBR | KENNETH HALL | | |
| 938 | WPSU598 | 4000 BUNKUM RD | WASHIN | CBR | NEXTEL | | |
| 939 | WPSU598 | | WASHIN | CBR | NEXTEL | | |
| 940 | WPSU973 | 4000 BUNKUM RD | WASHIN | CBR | NEXTEL | | |
| 941 | WPSU973 | | WASHIN | CBR | NEXTEL | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|--------------------------------|-------------|--------------|-----------------|-----------------|------------------|
| 942 | WPOE609 | | | CBR | Cargill, | | |
| 943 | WQAH920 | .5KM SO.OF O'FALLON TROY RD ON | O'FALLON | | CBR | SAINT CLAIR, | |
| 944 | WQAJ442 | .5KM SO.OF O'FALLON TROY ROAD | O'FALLON | | CBR | SAINT CLAIR, | |
| 945 | KNEQ760 | 417 MISSOURI AVE | EAST | CBR | ILLINOIS, STATE | | |
| 946 | KSA317 | 111 N MAIN ST | EAST | CBR | EAST SAINT | | |
| 947 | KUQ659 | 111 NORTH MAIN ST | EAST | CBR | EAST SAINT | | |
| 948 | WPRF728 | .2 MI SE OF INT OF SOUTH AND E | CASEYV | CBR | CSX | | |
| 949 | WQHP244 | 917 N SEVEN HILLS ROAD | O' | CBR | USCOC OF | | |
| 950 | WPLB523 | 723 W BROADWAY | EAST | CBR | NEXTEL | | |
| 951 | WPLB523 | | EAST | CBR | NEXTEL | | |
| 952 | WPLB757 | 723 WEST BROADWAY | E. ST. | CBR | NEXTEL | | |
| 953 | WPLB757 | | E. ST. | CBR | NEXTEL | | |
| 954 | WPPQ447 | 623 N B ST A | EAST | CBR | NEXTEL | | |
| 955 | WPPQ447 | | EAST | CBR | NEXTEL | | |
| 956 | WPCT492 | | | CBR | CASINO QUEEN | | |
| 957 | WPDJ308 | 200 S FRONT ST | EAST | CBR | CASINO QUEEN | | |
| 958 | WPDJ308 | | EAST | CBR | CASINO QUEEN | | |
| 959 | WPDJ308 | | EAST | CBR | CASINO QUEEN | | |
| 960 | WPUR555 | 805 East OFallon Dr | Caseyville | CBR | Ameren Services | | |
| 961 | WPUR555 | | Caseyville | CBR | Ameren Services | | |
| 962 | WQAH920 | 805 EAST O'FALON ROAD | CASEYV | CBR | SAINT CLAIR, | | |
| 963 | WQAJ442 | 805 EAST O'FAOOLON ROAD | CASEYV | CBR | SAINT CLAIR, | | |
| 964 | WPMX342 | 805 EAST O FALLON DR | CASEYV | CBR | WARNER | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|---------------------------------|-------------|--------------|----------------|-----------------|------------------|
| 965 | WPMX342 | | CASEYV | CBR | WARNER | | |
| 966 | WMF310 | 805 E O'FALLON DR | CASEYV | CBR | WPXS, INC. | | |
| 967 | WPMN820 | 1.1 MI SE OF RT 157 AND FALLOW | CASEYV | CBR | BARCOM INC | | |
| 968 | WPMN820 | | CASEYV | CBR | BARCOM INC | | |
| 969 | WNGC361 | 1.1 MI SE INT IL ST RT 157 & O | CASEYV | CBR | Nextel License | | |
| 970 | WNGC361 | | CASEYV | CBR | Nextel License | | |
| 971 | WPDU557 | 1.1 MI SE INT IL ST RT 157 | CASEYV | CBR | Nextel License | | |
| 972 | WPDU557 | | CASEYV | CBR | Nextel License | | |
| 973 | WPDV261 | 1.1 MI SE INT IL SR157 | CASEYV | CBR | Nextel License | | |
| 974 | WPDV261 | | CASEYV | CBR | Nextel License | | |
| 975 | WPEN395 | 1.1 MI SE INT IL ST RT 157 | CASEYV | CBR | Nextel License | | |
| 976 | WPEN395 | | CASEYV | CBR | Nextel License | | |
| 977 | WPPV536 | 805 EAST OFALLON DRIVE | CASEYV | CBR | Sitco, Inc | | |
| 978 | WPPV536 | | CASEYV | CBR | Sitco, Inc | | |
| 979 | WPPX529 | 805 EAST OFALLON DRIVE | CASEYV | CBR | Sitco, Inc | | |
| 980 | WPPX529 | | CASEYV | CBR | Sitco, Inc | | |
| 981 | WPMW392 | 1/5 MI E OF RT 157 | CASEYV | CBR | WARNER | | |
| 982 | WPMW392 | | CASEYV | CBR | WARNER | | |
| 983 | WPMW403 | 1/2 MI E OF RT 157 | CASEYV | CBR | WARNER | | |
| 984 | WPMW403 | | CASEYV | CBR | WARNER | | |
| 985 | WPPU245 | 1/2 MI E OF RTE 157 | CASEYV | CBR | WARNER | | |
| 986 | WPPU245 | | CASEYV | CBR | WARNER | | |
| 987 | WQGZ214 | End of Forest Oaks Dr at Shadow | Fairview | CBR | Caseyville | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|------------------------------|-------------|--------------|--------------------|-----------------|------------------|
| 988 | KD49140 | | | CBR | ILLINOIS, STATE | | |
| 989 | KGK824 | SOUTHERN ILLINOIS UNIVERSITY | EAST | CBR | ILLINOIS, STATE | | |
| 990 | WPVY306 | MP 281.0 Along KCS Tracks | East St. | CBR | Kansas City | | |
| 991 | WPRR686 | 728 EXCHANGE AVE | EAST | CBR | State of Illinois- | | |
| 992 | WQIU455 | 7th and Bowman Sts | East | CBR | Ameren Services | | |
| 993 | WQCK458 | 728 EXCHANGE AVENUE | ST | CBR | ILLINOIS, STATE | | |
| 994 | WQCK458 | | ST | CBR | ILLINOIS, STATE | | |
| 995 | WRH48 | 7TH AND BOWMAN | EAST | CBR | State of Illinois- | | |
| 996 | WPFZ285 | 2760 N 45TH ST | FAIRMO | CBR | B GARCIA | | |
| 997 | WPFZ285 | | FAIRMO | CBR | B GARCIA | | |
| 998 | WNBV250 | 309 ST CLAIR AVE | EAST | CBR | CSX | | |
| 999 | WPUT434 | 321 S MAIN ST / FIRE STATION | CASEYV | CBR | CASEYVILLE | | |
| 1000 | WPUT434 | | CASEYV | CBR | CASEYVILLE | | |
| 1001 | KRP729 | 1214 HOLLYWOOD HEIGHTS ROAD | CASEYV | CBR | HOLLYWOOD | | |
| 1002 | KRP729 | | CASEYV | CBR | HOLLYWOOD | | |
| 1003 | WQEQ700 | 8490 FOREST BLVD | CASEYV | CBR | MCMILLAN, | | |
| 1004 | WQEQ700 | | CASEYV | CBR | MCMILLAN, | | |
| 1005 | WPBR409 | INT I55 & US 40 | EAST | CBR | GATEWAY | | |
| 1006 | KLZ995 | VILLAGE HALL 10 WEST MORRIS | CASEYV | CBR | CASEYVILLE, | | |
| 1007 | KNIT599 | 10 W MORRIS VILLAGE HALL | CASEYV | CBR | CASEYVILLE, | | |
| 1008 | WPZY489 | 5621 FOREST BLVD | WASHIN | CBR | WASHINGTON | | |
| 1009 | WPZY489 | | WASHIN | CBR | WASHINGTON | | |
| 1010 | KGL512 | 5621 FOREST BLVD | WASHIN | CBR | WASHINGTON | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|-------------------------------------|-------------|--------------|-------------------|-----------------|------------------|
| 1011 | KNED360 | 5500 BUNKUM RD | WASHIN | CBR | CANTEEN, | | |
| 1012 | KNED360 | | WASHIN | CBR | CANTEEN, | | |
| 1013 | WPUT434 | 10 WEST MORRIS ST / POLICE | CASEYV | CBR | CASEYVILLE | | |
| 1014 | WLK827 | 819 OLD CASEYVILLE RD | CASEYV | CBR | CYBERTEL | | |
| 1015 | WPRF728 | 206 FT S OF INT OF N 38TH ST AND | EAST | CBR | CSX | | |
| 1016 | KFE712 | CR ROSE LAKE YD OFC BLDG SE | EAST | CBR | CSX | | |
| 1017 | WNDZ393 | CR ROSELAKE YARD AT PARSEC T L | EAST | CBR | CSX | | |
| 1018 | WNDZ393 | | EAST | CBR | CSX | | |
| 1019 | KFE712 | CR ROSE LAKE YD NEAR SE COR | EAST | CBR | CSX | | |
| 1020 | KFE712 | | EAST | CBR | CSX | | |
| 1021 | WNDZ393 | CR ROSELAKE YARD OFC BLDG | EAST | CBR | CSX | | |
| 1022 | WNWV377 | 800 N FRONT ST | EAST | CBR | Illinois-American | | |
| 1023 | WYG960 | 800 N FRONT ST | EAST | CBR | Illinois-American | | |
| 1024 | WNTQ550 | 800 FRONT ST | EAST | CBR | Illinois-American | | |
| 1025 | KFE712 | RR HN CABIN | EAST | CBR | CSX | | |
| 1026 | WPRF728 | .7 MI E OF SR 111 XING CSXT | FAIRMO | CBR | CSX | | |
| 1027 | WQFM737 | On CR 1.4 Air MI SE Jct US Hwy 40 & | Caseyville | CBR | CENTERPOINT | | |
| 1028 | WQFM737 | | Caseyville | CBR | CENTERPOINT | | |
| 1029 | WNEV644 | COLLINSVILLE TWR SITE ON CR 1.4 | CASEYV | CBR | CENTERPOINT | | |
| 1030 | WPQY683 | 2201 S MORRISON | COLLINS | CBR | COLLINSVILLE | | |
| 1031 | KAZ722 | ON CR 1.4 AIR MI SE JCT US HWY 40 | CASEYV | CBR | CENTERPOINT | | |
| 1032 | WNTP518 | COLLINSVILLE TWR 2.3 KM SE JCT | CASEYV | CBR | CENTERPOINT | | |
| 1033 | WNTP518 | COLLINSVILLE TWR 2.3 KM SE JCT | CASEYV | CBR | CENTERPOINT | | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Owner | Function | ReplaCost |
|-----------|-------------|---------------------------------|-------------|--------------|-----------------|-----------------|------------------|
| 1034 | WXY328 | RR HN CABIN | EAST | CBR | CSX | | |
| 1035 | KNJM324 | 2.64KM W OF BLACK LANE RD XING, | FAIRMO | CBR | CSX | | |
| 1036 | WNGP934 | 2601 N 41ST ST | FAIRMO | CBR | FAIRMONT CITY, | | |
| 1037 | WNGP934 | | FAIRMO | CBR | FAIRMONT CITY, | | |
| 1038 | KLI254 | 2601 N 41ST ST | FAIRMO | CBR | FAIRMONT CITY, | | |
| 1039 | KTR723 | VILLAGE HALL 2601 N 41ST ST | FAIRMO | CBR | FAIRMONT CITY, | | |
| 1040 | WPRF728 | .7 MI NE OF SR 111 XING CSXT | FAIRMO | CBR | CSX | | |
| 1041 | KDE937 | 2728 CLIFF DR | FAIRVIE | CBR | MOBILE AIRE | | |
| 1042 | WPYI873 | | FAIRMO | CBR | FLORIDA RSA #8 | | |
| 1043 | WQFU980 | | FAIRMO | CBR | Missouri RSA 8 | | |
| 1044 | WQBT339 | | FAIRMO | CBR | NEATT Wireless, | | |
| 1045 | WPYI873 | | FAIRMO | CBR | USCOC OF | | |
| 1046 | WQAY464 | | FAIRMO | CBR | USCOC OF | | |
| 1047 | WQBT344 | | FAIRMO | CBR | USCOC OF | | |
| 1048 | WPPQ453 | 5525 CONGRESS PL | FAIRMO | CBR | NEXTEL | | |
| 1049 | WPPQ453 | | FAIRMO | CBR | NEXTEL | | |
| 1050 | WPQF250 | 2949 NORTH 63RD. STREET | FAIRMO | CBR | PENNY, SCOTT | | |
| 1051 | WPQF250 | | FAIRMO | CBR | PENNY, SCOTT | | |
| 1052 | KNNS333 | HIGHWAY 111 & MARYLAND AVE | FAIRMO | CBR | PAR | | |
| 1053 | KNNS333 | | FAIRMO | CBR | PAR | | |
| 1054 | WQFU980 | | Collinsvill | CBR | Missouri RSA 8 | | |
| 1055 | WQFU979 | | COLLINS | CBR | Missouri RSA 8 | | |
| 1056 | WQFU979 | | COLLINS | CBR | Missouri RSA 8 | | |

Dams Report

| ID | Name | River | City | Owner | Purpose | Height (ft) | ReplaCost |
|-----------|---------------------------|----------------------|-------------|----------------------|----------------|--------------------|------------------|
| 1 | HEITMANS POND DAM | TRIB NEGRO HOLLOW | EAST LOUIS | Heitman's Poultry | R | 30 | |
| 2 | LAKE STOLBERG DAM | TRIB RICHLAND CREEK | BELLEVILLE | Lakeside Terrace | R | 16 | |
| 3 | MCGRAW LAKE DAM | TRIB SILVER CREEK | NEW | L. McGraw | R | 12 | |
| 4 | BEIL LAKE 1 (EAST DAM 1) | TRIB DOUGALS CREEK | DOUGLAS | Charles Beil | R | 31 | |
| 5 | LAKE CHRISTINE DAM | TRIB RICHLAND CREEK | BELLEVILLE | Lake Christine | R | 20 | |
| 6 | TURKEY HILL LAKE DAM | HAZEL CREEK | NEW | St. Clair Associated | R | 28 | |
| 7 | JUSTAMIR ASSOCIATION LAKE | TRIB PRAIRIE DU LONG | EVANSVILLE | Unknown | R | 11 | |
| 8 | BAUERS LAKE DAM | TRIB LITTLE CANTEEN | CASEYVILLE | Mr. & Mrs. William | R | 26 | |
| 9 | BEIL LAKE 2 DAM | TRIB DOUGLAS CREEK | DOUGLAS | Charles Beil | R | 29 | |
| 10 | MILLSTADT SPORTSMAN CLUB | TRIB DOUGLAS CREEK | DOUGLAS | Millstadt Sportsman | R | 15 | |
| 11 | ILONAME 362 | TRIB DOUGLAS CREEK | DOUGLAS | Vernon Elkhart | R | 21 | |
| 12 | BIEBELL LAKE DAM | TRIB SILVER CREEK | NEW | Armin Reinhardt | R | 9 | |
| 13 | MARISSA RESERVOIR DAM | TRIB MUD CREEK | NEW | Village of Marissa | SR | 22 | |
| 14 | SCOTT AIR FORCE BASE | TRIB SILVER CREEK | STILLMAN | Scott Air Force | R | 13 | |
| 15 | LAKE LORRAINE DAM (YOCH | TRIB RICHLAND CREEK | BELLEVILLE | Lake Lorraine | R | 17 | |
| 16 | WESLAKE DAM | TR NEGRO | FAIRVIEW | Wes Lake Property | R | 48 | |
| 17 | SMITHTON SPORTSMANS | TRIB WEST FORK | NO TOWN | Smithton | R | 26 | |
| 18 | PEABODY/RIVER KING/LAKE | HEBERERS BRANCH | NEW | Peabody Coal | O | 13 | |
| 19 | SCHWEBEL BROTHERS DAM | TRIB KASKASKIA RIVER | NEW | Unknown | R | 11 | |
| 20 | NEW WEST FORK CLUB LAKE | TRIB WEST FORK | HECKER- | New West Fork | R | 15 | |
| 21 | ARENAS DAM | TRIB WOLF BRANCH | BELLEVILLE | Ms. Joan Arenas | R | 20 | |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | River | City | Owner | Purpose | Height (ft) | ReplaCost |
|----|---------------------------|-----------------------|--------------|----------------------|---------|-------------|-----------|
| 22 | ECKERT LAKE DAM | TRIB PRAIRIE DUPONT | FRENCH | Mr. Vernon Lairer | R | 42 | |
| 23 | CLOVERTOWNE LAKE DAM | TRIB NEGRO HOLLOW | BELLEVILLE | Clovertowne Farms | R | 32 | |
| 24 | LAWRENCE LAKE DAM | TRIB NEGRO HOLLOW | BELLEVILLE | Lake Lawrence | R | 24 | |
| 25 | BEIL LAKE 1 (NORTH DAM 2) | TRIB DOUGLAS CREEK | DOUGLAS | Charles Beil | R | 31 | |
| 26 | FAIRWOOD LAKE DAM | ENGLE CREEK | LEBANON | Fairwood Lake | R | 27 | |
| 27 | KAPES LAKE DAM | TRIB OGLES CREEK | LEBANON | Jerry Kapes | R | 26 | |
| 28 | KASKASKIA ISLAND WILDLIFE | TRIB KASKASKIA RIVER | KASKASKIA | Illinois Department | R | 24 | |
| 29 | PETERSON POND DAM | TRIB POWDERMILL CREEK | | Mr. William | R | 17 | |
| 30 | ARROWWOOD LAKE DAM | TRIB WEST FORK | | Leland & Bernice | R | 28 | |
| 31 | RAVENWOOD LAKE DAM | TRIB RICHLAND CREEK | O'FALLON | Ravenwood Lake | R | 15 | |
| 32 | STONEWOLF GOLF COURSE | TRIB LITTLE CANTEEN | CASEYVILLE | Stonewolf L.L.C. | R | 72 | |
| 33 | DAVIS LAKE DAM | TRIB PRAIRIE DUPONT | FRENCH | Davis Lake | R | 37 | |
| 34 | PEABODY/RIVER KING | TRIB SILVER CREEK | FAYETTEVILL | Peabody Coal | O | 32 | |
| 35 | PEABODY/RIVER KING 1/DAM | TRIB SILVER CREEK | FREEBURG | Peabody Coal | O | 67 | |
| 36 | PEABODY/RIVER KING | TRIB SILVER CREEK | FAYETTEVILLE | Peabody Coal | O | 36 | |
| 37 | MUETH LAKE DAM | TRIB PRAIRIE DU LONG | NONE | Mr. Cletus Mueth | R | 30 | |
| 38 | ST. CLAIR COUNTY | WOLF BRANCH CREEK | BELLEVILLE | St. Clair Co., Dept. | R | 31 | |
| 39 | PEABODY/RANDOLPH | TRIB DOZA CREEK | ST.LIBORY | Peabody Coal | O | 45 | |
| 40 | RIVER KING PREP | | FREEBURG | PEABODY COAL | S | 20 | |
| 41 | ROACHTOWN LAKE DAM | DOUGLAS CREEK | DOUGLAS | ST. CLAIR CO. | RFO | 25 | |
| 42 | MARISSA REC. ASSOC. | TRIB-MUD CREEK | NEW | WILLAGE OF | R | 25 | |
| 43 | MARISSA REC. ASSOC. | TRIB-MUD CREEKNEW | Marissa | | RFO | 25 | |

Electric Power Facilities Report

| ID | Name | Address | City | Class | Function | Stories | YearBuilt | ReplaCost |
|----|---------------------|-----------------------|-----------|-------|----------|---------|-----------|-----------|
| 1 | MASCOUTAH POWER | 40 W UNION | MASCOUTAH | EDFLT | | | | 122100 |
| 2 | SMITHTON-WILDWOOD | WILDWOOD LAKE ESTATES | SMITHTON | EDFLT | | | | 122100 |
| 3 | VILLAGE OF FREEBURG | 412 W HIGH ST | FREEBURG | EDFLT | | | | 122100 |

EOC Facilities Report

| ID | Name | Address | City | Class | YearBuilt | ShelterCap | Stories | ReplaCost |
|----|----------------------------|------------------|---------------|-------|-----------|------------|---------|-----------|
| 1 | Dupo Village Civil Defense | 100 N 2nd St | Dupo | EFEO | | | | \$1,110 |
| 2 | US Civil Defense | 3 W Main St | Mascoutah | EFEO | | | | \$1,110 |
| 3 | Civil Defense | 301 Riverpark Dr | East St Louis | EFEO | | | | \$1,110 |
| 4 | ST CLAIR EMA AND | 110 W WASHINGTON | BELLEVILLE | EFEO | | | | \$1,110 |

FireStation Facilities Report

| ID | Name | Address | City | Class | Stories | YearBuilt | ReplaCost |
|----|----------------------------|---------------------------|------------|-------|---------|-----------|-----------|
| 1 | Alorton Volunteer Fire | 4821 Bond Avenue | Alorton | EFFS | 1 | | 812 |
| 2 | Belleville Fire Department | 213 South Illinois Street | Belleville | EFFS | 1 | | 812 |
| 3 | Brooklyn Volunteer Fire | 312 South 5th Street | Brooklyn | EFFS | 1 | | 812 |
| 4 | Cahokia Volunteer Fire | 1499 Doris Avenue | Cahokia | EFFS | 1 | | 812 |
| 5 | Camp Jackson Fire | 3201 Camp Jackson Road | Cahokia | EFFS | 1 | | 812 |

St. Clair County Multi-Hazard Mitigation Plan

| | | | | | | |
|----|-------------------------------|-----------------------------|----------------|------|---|-----|
| 6 | Caseyville Volunteer Fire | 11 n Main Street | Caseyville | EFFS | 1 | 812 |
| 8 | Dupo Volunteer Fire | 501 Columbia Road | Dupo | EFFS | 1 | 812 |
| 10 | East St Louis Fire | 301 Riverpark Drive | East St. Louis | EFFS | 1 | 812 |
| 11 | East St Louis Fire | 1712 Lincoln Avenue | East St. Louis | EFFS | 1 | 812 |
| 44 | Signal Hill Fire Department | 329 Hazel Ave | Belleville | EFFS | 1 | 812 |
| 14 | Fairmont City Fire | 2601 North 41st Street | Fairmont City | EFFS | 1 | 812 |
| 15 | Fairview - Caseyville | 626 Lincoln Highway | Fairview | EFFS | 1 | 812 |
| 19 | Freeburg Fire Protection | 410 West High Street | Freeburg | EFFS | 1 | 812 |
| 21 | French Village Volunteer Fire | 1406 2nd Avenue | Fairview | EFFS | 1 | 812 |
| 22 | Golden Garden Volunteer Fire | 413 Jackson St | East St. Louis | EFFS | 1 | 812 |
| 23 | Hollywood Heights Volunteer | 1214 Hollywood Heights Road | Caseyville | EFFS | 1 | 812 |
| 24 | Lebanon - Emerald Mound | 312 West St. Louis | Lebanon | EFFS | 1 | 812 |
| 25 | Lenzburg Fire Department | 320 North Charles | Lenzburg | EFFS | 1 | 812 |
| 26 | Marissa Volunteer Fire | 200 West Railroad Street | Marissa | EFFS | 1 | 812 |
| 28 | Midamerica Airport Fire | 8849 Air Service Drive | Mascoutah | EFFS | 1 | 812 |
| 30 | Millstadt Fire Protection | 114 South Jefferson Street | Millstadt | EFFS | 1 | 812 |
| 31 | New Athens Fire Protection | 909 Sportsylvania Street | New Athens | EFFS | 1 | 812 |
| 32 | Northwest St Clair County | 3407 South Belt West | Belleville | EFFS | 1 | 812 |
| 35 | Prairie - DuPont Fire | 2117 Short Street | East | EFFS | 1 | 812 |
| 36 | Sauget Fire Department | 2897 Falling Spring Road | Sauget | EFFS | 1 | 812 |
| 38 | Smithton Volunteer Fire Co | 2 North Main Street | Smithton | EFFS | 1 | 812 |
| 40 | St Libory Volunteer Fire | 741 Rutter Street | St Libory | EFFS | 1 | 812 |
| 41 | Swansea Volunteer Fire | 1400 N Illinois St | Swansea | EFFS | 1 | 812 |
| 42 | Villa Hills Fire Department | 100 Conniston Drive | Belleville | EFFS | 1 | 812 |
| 43 | Washington Park Fire | 5621 Forest Boulevard | Washington | EFFS | 1 | 812 |

Hazardous Materials

| ID | Name | Address | City | Class | EPAID | ChemicalName |
|-----------|--------------------------|------------------------------|-------------|--------------|--------------|---------------------|
| 1 | U.S. AIR FORCE SCOTT AIR | 701 HANGAR RD. 375TH CES/CEV | SCOTT AFB | HDFLT | | CHLORINE |
| 2 | BIG RIVER ZINC CORP. | 2401 MISSISSIPPI AVE. | SAUGET | HDFLT | ILD062444435 | ARSENIC |
| 3 | BIG RIVER ZINC CORP. | 2401 MISSISSIPPI AVE. | SAUGET | HDFLT | ILD062444435 | COPPER |
| 4 | BIG RIVER ZINC CORP. | 2401 MISSISSIPPI AVE. | SAUGET | HDFLT | ILD062444435 | CADMIUM |
| 5 | BIG RIVER ZINC CORP. | 2401 MISSISSIPPI AVE. | SAUGET | HDFLT | ILD062444435 | LEAD |
| 6 | BIG RIVER ZINC CORP. | 2401 MISSISSIPPI AVE. | SAUGET | HDFLT | ILD062444435 | "SULFURIC ACID |
| 7 | BIG RIVER ZINC CORP. | 2401 MISSISSIPPI AVE. | SAUGET | HDFLT | ILD062444435 | ZINC (FUME OR |
| 8 | BIG RIVER ZINC CORP. | 2401 MISSISSIPPI AVE. | SAUGET | HDFLT | ILD062444435 | ZINC COMPOUNDS |
| 9 | BIG RIVER ZINC CORP. | 2401 MISSISSIPPI AVE. | SAUGET | HDFLT | ILD062444435 | MANGANESE |
| 10 | GENERAL CHEMICAL CORP. - | 2500 KINGS HWY. | EAST SAINT | HDFLT | ILT180010605 | "SULFURIC ACID |
| 11 | GENERAL CHEMICAL CORP. - | 2500 KINGS HWY. | EAST SAINT | HDFLT | ILT180010605 | "HYDROCHLORIC |
| 12 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | AMMONIA |
| 13 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | BARIUM |
| 14 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | BENZENE |
| 15 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | N-BUTYL |
| 16 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | CARBON |
| 17 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | CHLORINE |
| 18 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | COPPER |
| 19 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | DICYCLOPENTAD |
| 20 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | N-HEXANE |
| 21 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | "HYDROCHLORIC |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | EPAID | ChemicalName |
|-----------|--------------------|-------------------|-------------|--------------|--------------|---------------------|
| 22 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | MALEIC |
| 23 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | METHANOL |
| 24 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | ZINC COMPOUNDS |
| 25 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | NAPHTHALENE |
| 26 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | NITRATE |
| 27 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | DIPHENYLAMINE |
| 28 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | FORMIC ACID |
| 29 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | HYDRAZINE |
| 30 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | CERTAIN GLYCOL |
| 31 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | TRIETHYLAMINE |
| 32 | ETHYL PETROLEUM | 501 MONSANTO AVE. | SAUGET | HDFLT | ILD055871370 | DIETHANOLAMINE |
| 33 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | FREON 113 |
| 34 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "1,2- |
| 35 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "1,4-DIOXANE" |
| 36 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "2,4-D" |
| 37 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | 2- |
| 38 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ACETONITRILE |
| 39 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ACRYLIC ACID |
| 40 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ACRYLONITRILE |
| 41 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ALACHLOR |
| 42 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ATRAZINE |
| 43 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | BENZENE |
| 44 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | BENZOIC |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | EPAID | ChemicalName |
|-----------|--------------------|----------------|-------------|--------------|--------------|---------------------|
| 45 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | BENZOYL |
| 46 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | CARBON |
| 47 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | CHLOROENZEN |
| 48 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | CHLOROFORM |
| 49 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | CRESOL (MIXED |
| 50 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | CYCLOHEXANE |
| 51 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | DIAZINON |
| 52 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | DICAMBA |
| 53 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | DICHLOROMETHA |
| 54 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ETHYLBENZENE |
| 55 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ETHYLENE |
| 56 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | FORMALDEHYDE |
| 57 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | FORMIC ACID |
| 58 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | HYDRAZINE |
| 59 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | METHANOL |
| 60 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | METHYL ETHYL |
| 61 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | METHYL |
| 62 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | NAPHTHALENE |
| 63 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | N-BUTYL |
| 64 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | N-HEXANE |
| 65 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | PENDIMETHALIN |
| 66 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | PHENOL |
| 67 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | PHTHALIC |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | EPAID | ChemicalName |
|-----------|--------------------|----------------|-------------|--------------|--------------|---------------------|
| 68 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | PYRIDINE |
| 69 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | SODIUM AZIDE |
| 70 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | STYRENE |
| 71 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | TETRACHLOROET |
| 72 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | TOLUENE |
| 73 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | TRICHLOROETHY |
| 74 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | XYLENE (MIXED |
| 75 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ANTIMONY |
| 76 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | CHROMIUM |
| 77 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | COPPER |
| 78 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | LEAD |
| 79 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | MANGANESE |
| 80 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ZINC COMPOUNDS |
| 81 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | CYANIDE |
| 82 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | DIISOCYANATES |
| 83 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | NITRIC ACID |
| 84 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "SULFURIC ACID |
| 85 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | HYDROGEN |
| 86 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "HYDROCHLORIC |
| 87 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "1,1,1- |
| 88 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "1,1-DIMETHYL |
| 89 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "1,3- |
| 90 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "1-CHLORO-1,1- |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | EPAID | ChemicalName |
|-----------|--------------------|----------------|-------------|--------------|--------------|---------------------|
| 91 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "2,4,5- |
| 92 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "2,4- |
| 93 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "2,4- |
| 94 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "2,4- |
| 95 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "2,4- |
| 96 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "2,4-DP" |
| 97 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | 2- |
| 98 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | 2- |
| 99 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | 2- |
| 100 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | 2- |
| 101 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | 2-NITROPROPANE |
| 102 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "3,3'- |
| 103 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "3,3'- |
| 104 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "3,3'- |
| 105 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | 3- |
| 106 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ACETALDEHYDE |
| 107 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "4,6-DINITRO-O- |
| 108 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ALDICARB |
| 109 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ALLYL ALCOHOL |
| 110 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ALPHA- |
| 111 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | AMITROLE |
| 112 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | BENZIDINE |
| 113 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | BENZYL |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | EPAID | ChemicalName |
|-----------|--------------------|----------------|-------------|--------------|--------------|---------------------|
| 114 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | BIS(CHLOROMET |
| 115 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | BRUCINE |
| 116 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | C.I. SOLVENT |
| 117 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | CHLOROMETHYL |
| 118 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | CROTONALDEHY |
| 119 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | CUMENE |
| 120 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | CUMENE |
| 121 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | CYCLOHEXANOL |
| 122 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | DI(2- |
| 123 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | DIALLATE |
| 124 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | DIHYDROSAFROL |
| 125 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | DIAMINOTOLUEN |
| 126 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | DIMETHOATE |
| 127 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | DIMETHYL |
| 128 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | DIMETHYLAMINE |
| 129 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | DIMETHYLCARBA |
| 130 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | EPOCHLOROHYD |
| 131 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ETHYL ACRYLATE |
| 132 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ETHYLENE |
| 133 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "ETHYLENEBISDIT |
| 134 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ETHYLENEIMINE |
| 135 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | HEXACHLOROPH |
| 136 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | LINDANE |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | EPAID | ChemicalName |
|-----------|--------------------|----------------|-------------|--------------|--------------|---------------------|
| 137 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | MALEIC |
| 138 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | MALONONITRILE |
| 139 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | M-CRESOL |
| 140 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | M- |
| 141 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | MECOPROP |
| 142 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | METHOXONE |
| 143 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | METHYL |
| 144 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | METHYL |
| 145 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | METHYL |
| 146 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | METHYL |
| 147 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | METHYL TERT- |
| 148 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "N,N- |
| 149 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | NICOTINE AND |
| 150 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | NITROGLYCERIN |
| 151 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | NITRATE |
| 152 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | N- |
| 153 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | N-NITROSO-N- |
| 154 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | N-NITROSO-N- |
| 155 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | O-CRESOL |
| 156 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | O-TOLUIDINE |
| 157 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | O-TOLUIDINE |
| 158 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | PARALDEHYDE |
| 159 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | P-CRESOL |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | EPAID | ChemicalName |
|-----------|--------------------|----------------|-------------|--------------|--------------|---------------------|
| 160 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | PENTACHLOROP |
| 161 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | PHOSGENE |
| 162 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | PHOSPHINE |
| 163 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | POLYCYCLIC |
| 164 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | PROPANE |
| 165 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | PROPARGYL |
| 166 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | PROPYLENEIMIN |
| 167 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | QUINONE |
| 168 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | SODIUM |
| 169 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | STRYCHNINE |
| 170 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | THIOACETAMIDE |
| 171 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | THIOSEMICARBAZ |
| 172 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | THIOUREA |
| 173 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "TOLUENE-2,4- |
| 174 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | TOLUENE |
| 175 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "TOLUENE-2,6- |
| 176 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | "TRANS-1,4- |
| 177 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | TRIALATE |
| 178 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | THIRAM |
| 179 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | TRYPAN BLUE |
| 180 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | URETHANE |
| 181 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | WARFARIN AND |
| 182 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | MOLINATE |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | EPAID | ChemicalName |
|-----------|-------------------------|-----------------------|-------------|--------------|--------------|---------------------|
| 183 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ALUMINUM OXIDE |
| 184 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ARSENIC |
| 185 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | BARIUM |
| 186 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | CADMIUM |
| 187 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | MERCURY |
| 188 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | NICKEL |
| 189 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | MOLYBDENUM |
| 190 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | SELENIUM |
| 191 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | SILVER |
| 192 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | THALLIUM |
| 193 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | ALUMINUM |
| 194 | ONYX ENVIRONMENTAL | 7 MOBILE AVE. | SAUGET | HDFLT | ILD098642424 | PHOSPHORUS |
| 195 | SOLVAY FLUORIDES INC. | 3500 MISSOURI AVE. | ALORTON | HDFLT | ILD083042663 | AMMONIA |
| 196 | SOLVAY FLUORIDES INC. | 3500 MISSOURI AVE. | ALORTON | HDFLT | ILD083042663 | HYDROGEN |
| 197 | CERRO COPPER PRODS. CO. | 3000 MISSISSIPPI AVE. | SAUGET | HDFLT | ILD080018914 | COPPER |
| 198 | CERRO COPPER PRODS. CO. | 3000 MISSISSIPPI AVE. | SAUGET | HDFLT | ILD080018914 | CHROMIUM |
| 199 | CERRO COPPER PRODS. CO. | 3000 MISSISSIPPI AVE. | SAUGET | HDFLT | ILD080018914 | TRICHLOROETHY |
| 200 | CERRO COPPER PRODS. CO. | 3000 MISSISSIPPI AVE. | SAUGET | HDFLT | ILD080018914 | ZINC COMPOUNDS |
| 201 | CERRO COPPER PRODS. CO. | 3000 MISSISSIPPI AVE. | SAUGET | HDFLT | ILD080018914 | NICKEL |
| 202 | CERRO COPPER PRODS. CO. | 3000 MISSISSIPPI AVE. | SAUGET | HDFLT | ILD080018914 | SILVER |
| 203 | CERRO COPPER PRODS. CO. | 3000 MISSISSIPPI AVE. | SAUGET | HDFLT | ILD080018914 | LEAD |
| 204 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | ETHYLBENZENE |
| 205 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | STYRENE |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | EPAID | ChemicalName |
|-----------|-------------------------|--------------------|-------------|--------------|--------------|---------------------|
| 206 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | XYLENE (MIXED |
| 207 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | N-BUTYL |
| 208 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | SEC-BUTYL |
| 209 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | PHTHALIC |
| 210 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | "1,2,4- |
| 211 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | METHYL |
| 212 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | METHYL |
| 213 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | TOLUENE |
| 214 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | TOLUENE |
| 215 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | BUTYL ACRYLATE |
| 216 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | ETHYLENE |
| 217 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | MALEIC |
| 218 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | ETHYL ACRYLATE |
| 219 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | ACRYLIC ACID |
| 220 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | "4,4'- |
| 221 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | VINYL ACETATE |
| 222 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | METHYL |
| 223 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | NAPHTHALENE |
| 224 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | METHYL ETHYL |
| 225 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | CUMENE |
| 226 | AKZO NOBEL RESINS | 2904 MISSOURI AVE. | EAST SAINT | HDFLT | ILD040125080 | CUMENE |
| 227 | ELEMENTIS PIGMENTS INC. | 2001 LYNCH AVE. | EAST SAINT | HDFLT | ILD006317119 | ETHYLENE |
| 228 | ELEMENTIS PIGMENTS INC. | 2001 LYNCH AVE. | EAST SAINT | HDFLT | ILD006317119 | CHROMIUM |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | EPAID | ChemicalName |
|-----------|--------------------------|-------------------|-------------|--------------|--------------|---------------------|
| 229 | ELEMENTIS PIGMENTS INC. | 2001 LYNCH AVE. | EAST SAINT | HDFLT | ILD006317119 | "HYDROCHLORIC |
| 230 | ELEMENTIS PIGMENTS INC. | 2001 LYNCH AVE. | EAST SAINT | HDFLT | ILD006317119 | AMMONIA |
| 231 | OCCIDENTAL CHEMICAL | 520 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | CHLORINE |
| 232 | OCCIDENTAL CHEMICAL | 520 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | AMMONIA |
| 233 | FLEXSYS AMERICA L.P. - | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | ANILINE |
| 234 | FLEXSYS AMERICA L.P. - | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | FORMIC ACID |
| 235 | FLEXSYS AMERICA L.P. - | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | METHYL ETHYL |
| 236 | FLEXSYS AMERICA L.P. - | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | METHYL |
| 237 | FLEXSYS AMERICA L.P. - | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | P-NITROANILINE |
| 238 | FLEXSYS AMERICA L.P. - | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | 4-NITROPHENOL |
| 239 | FLEXSYS AMERICA L.P. - | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | O-XYLENE |
| 240 | FLEXSYS AMERICA L.P. - | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | SEC-BUTYL |
| 241 | SOLUTIA INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | BENZENE |
| 242 | SOLUTIA INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | CHLORINE |
| 243 | SOLUTIA INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | "SULFURIC ACID |
| 244 | SOLUTIA INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | "HYDROCHLORIC |
| 245 | SOLUTIA INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | NITRIC ACID |
| 246 | SOLUTIA INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | CHLOROENZEN |
| 247 | SOLUTIA INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | "1,3- |
| 248 | SOLUTIA INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | AMMONIA |
| 249 | SOLUTIA INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | "1,2- |
| 250 | SOLUTIA INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | 2-NITROPHENOL |
| 251 | SOLUTIA INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | P-NITROANILINE |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | EPAID | ChemicalName |
|-----------|---------------------------|------------------------------|-------------|--------------|--------------|---------------------|
| 252 | SOLUTION INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | PHOSPHORUS |
| 253 | SOLUTION INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | "1,4- |
| 254 | SOLUTION INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | 4-NITROPHENOL |
| 255 | SOLUTION INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | "1,2,4- |
| 256 | SOLUTION INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | NITRATE |
| 257 | SOLUTION INC. - KRUMMRICH | 500 MONSANTO AVE. | SAUGET | HDFLT | ILD000802702 | ETHYLENE |
| 258 | PHILLIPS PETROLEUM CO. | 3300 MISSISSIPPI AVE. | CAHOKIA | HDFLT | ILD053981601 | BENZENE |
| 259 | PHILLIPS PETROLEUM CO. | 3300 MISSISSIPPI AVE. | CAHOKIA | HDFLT | ILD053981601 | ETHYLBENZENE |
| 260 | PHILLIPS PETROLEUM CO. | 3300 MISSISSIPPI AVE. | CAHOKIA | HDFLT | ILD053981601 | N-HEXANE |
| 261 | PHILLIPS PETROLEUM CO. | 3300 MISSISSIPPI AVE. | CAHOKIA | HDFLT | ILD053981601 | METHYL TERT- |
| 262 | PHILLIPS PETROLEUM CO. | 3300 MISSISSIPPI AVE. | CAHOKIA | HDFLT | ILD053981601 | TOLUENE |
| 263 | PHILLIPS PETROLEUM CO. | 3300 MISSISSIPPI AVE. | CAHOKIA | HDFLT | ILD053981601 | "1,2,4- |
| 264 | PHILLIPS PETROLEUM CO. | 3300 MISSISSIPPI AVE. | CAHOKIA | HDFLT | ILD053981601 | XYLENE (MIXED |
| 265 | PHILLIPS PETROLEUM CO. | 3300 MISSISSIPPI AVE. | CAHOKIA | HDFLT | ILD053981601 | PROPYLENE |
| 266 | TURNER ELECTRIC L.L.C. | 9510 ST. CLAIR AVE. | FAIRVIEW | HDFLT | 1630525003IL | COPPER |
| 267 | BELLEVILLE SHOE MFG. CO. | 100 PREMIER DR. | BELLEVILLE | HDFLT | ILD006277974 | METHYL ETHYL |
| 268 | MARCONI DATA SYS. INC. | 1 MARSH DR. BELLE VALLEY | BELLEVILLE | HDFLT | ILD980702252 | XYLENE (MIXED |
| 269 | MARCONI DATA SYS. INC. | 1 MARSH DR. BELLE VALLEY | BELLEVILLE | HDFLT | ILD980702252 | METHYL ETHYL |
| 270 | MARCONI DATA SYS. INC. | 1 MARSH DR. BELLE VALLEY | BELLEVILLE | HDFLT | ILD980702252 | CERTAIN GLYCOL |
| 271 | ROESCH INC. | 100 N. 24TH ST. | BELLEVILLE | HDFLT | ILD006292122 | "SULFURIC ACID |
| 272 | U.S. AIR FORCE SCOTT AIR | 701 HANGAR RD. 375TH CES/CEV | SCOTT AFB | HDFLT | | CHLORINE |
| 273 | CENTURY CASTING CORP. | 1300 N. ILLINOIS ST. | SWANSEA | HDFLT | | COPPER |
| 274 | CENTURY CASTING CORP. | 1300 N. ILLINOIS ST. | SWANSEA | HDFLT | | ZINC COMPOUNDS |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | EPAID | ChemicalName |
|-----|----------------------------|---------------------------|------------|-------|--------------|----------------|
| 275 | CENTURY CASTING CORP. | 1300 N. ILLINOIS ST. | SWANSEA | HDFLT | | LEAD |
| 276 | ROHO WEST | 1501 WESTFIELD PLAZA PKY. | BELLEVILLE | HDFLT | | ZINC COMPOUNDS |
| 277 | SAFETY-KLEEN SYS. (516002) | 20 TUCKER DR. | CASEYVILLE | HDFLT | ILD980613913 | ETHYLENE |
| 278 | VERTEX CHEMICAL CORP. | 3101 CARONDELET AVE. | DUPO | HDFLT | | CHLORINE |
| 279 | KEMPEN PAINT CO. | 2500 STATE ST. | EAST | HDFLT | ILD006273562 | TOLUENE |
| 280 | KEMPEN PAINT CO. | 2500 STATE ST. | EAST | HDFLT | ILD006273562 | N-BUTYL |
| 281 | KEMPEN PAINT CO. | 2500 STATE ST. | EAST | HDFLT | ILD006273562 | "1,2,4- |
| 282 | KEMPEN PAINT CO. | 2500 STATE ST. | EAST | HDFLT | ILD006273562 | XYLENE (MIXED |
| 283 | WIEGMANN | 501 W. APPLE ST. | FREEBURG | HDFLT | ILD006302764 | NICKEL |
| 284 | WIEGMANN | 501 W. APPLE ST. | FREEBURG | HDFLT | ILD006302764 | CHROMIUM |
| 285 | CUSTOM MARBLE INC. | 850 S. MULBERRY | MILLSTADT | HDFLT | ILD094393980 | STYRENE |
| 286 | PACTIV CORP. | 11620 OLD HWY. 50 W. | TRENTON | HDFLT | IL0001272053 | PHENOL |

Medical Care Facilities Report

| ID | Name | Address | City | Class | Function | Beds | Stories | ReplaCost |
|----|--------------------|-----------------------|-------------|-------|------------|------|---------|-----------|
| 1 | ST. ELIZABETH'S | 211 SOUTH 3RD STREET | BELLEVILLE | EFHL | GENERAL | 190 | | 13500 |
| 2 | KENNETH HALL | 129 NORTH 8TH STREET | EAST ST. | EFHL | GENERAL | 190 | | 13500 |
| 3 | TOUCHETTE REGIONAL | 5900 BOND AVENUE | CENTREVILLE | EFHL | GENERAL | 190 | | 13500 |
| 4 | MEMORIAL HOSPITAL | 4500 MEMORIAL DRIVE | BELLEVILLE | EFHL | GENERAL | 190 | | 13500 |
| 5 | SCOTT AFB MEDICAL | 310 WEST LOSEY STREET | SCOTT AIR | EFHL | MILITARY H | 190 | | 13500 |
| 6 | BOHANNON NURSING | 1201 N ALTON | LEBANON | EFHM | NURSING | 90 | | 13500 |
| 7 | CAHOKIA NURSING 7 | 2 ANNABEL COURT | CAHOKIA | EFHM | NURSING | 150 | | 13500 |

St. Clair County Multi-Hazard Mitigation Plan

| | | | | | | | |
|----|--------------------|----------------------------|------------|------|-----------|-----|-------|
| 8 | CALVIN JOHNSON | 727 N 17TH ST | BELLEVILLE | EFHL | NURSING | 180 | 13500 |
| 9 | CASEYVILLE NURSING | 601 W LINCOLN AVE | OFALLON | EFHL | NURSING | 150 | 13500 |
| 10 | CEDA RIDGE HELATH | 1 PERRYMAN ST | LEBANON | EFHL | NURSING | 116 | 13500 |
| 11 | CEREBRAL PALSRY | 210 LEBANON AVE | BELLEVILLE | EFHS | CARE CTR | 5 | 13500 |
| 12 | DON BOSCO | 300 N CHURCH | BELLEVILLE | EFHS | CHILDRENS | 12 | 13500 |
| 13 | FOUR FOUNTAINS | 101 S BELT WEST | BELLEVILLE | EFHL | NURSING | 156 | 13500 |
| 14 | FREEBURG CARE | 746 URBANNA DR | FREEBURG | EFHM | NURSING | 118 | 13500 |
| 15 | GRANGE NURSING | 901 N 10th ST | MASCOUTAH | EFHM | NURSING | 55 | 13500 |
| 16 | MAR KA NURSING | 201 S 10th ST | MASCOUTAH | EFHM | NURSING | 76 | 13500 |
| 17 | MEMORIAL | 4315 MEMORIAL DR | BELLEVILLE | EFHM | NURSING | 108 | 13500 |
| 18 | PARK HAVEN CARE | 207 L LINCOLN | SMITHTON | EFHM | NURSING | 101 | 13500 |
| 19 | ST PAUL'S HOME | 1021 WEST E ST | BELLEVILLE | EFHL | NURSING | 175 | 13500 |
| 20 | SWANSEA CARE | 1405 N 2ND ST | SWANSEA | EFHM | NURSING | 94 | 13500 |
| 21 | THE LINCOLN HOME, | 150 N 27TH STREET | BELLEVILLE | EFHL | NURSING | 152 | 13500 |
| 22 | THE RENAISSANCE AT | 900 ROYAL HEIGHTS RD | BELLEVILLE | EFHL | NURSING | 234 | 13500 |
| 23 | DAMMERT GEROATRIC | 726 COMMUNITY DR | BELLEVILLE | EFHM | NURSING | 95 | 13500 |
| 24 | ATRIUM HEALTHCARE | 3354 JEROME LANE | CAHOKIA | EFHM | NURSING | 130 | 13500 |
| 25 | ROSEWOOD CARE | 100 ROSEWOOD VILLAGE DRIVE | SWANSEA | EFHM | NURSING | 120 | 13500 |
| 26 | VIRGIL CALVERT | 5050 SUMMIT AVENUE | EAST SAINT | EFHL | NURSING | 150 | 13500 |

Oil Facilities Report

| ID | Name | Address | City | Class | Function | Capacity | YearBuilt | ReplaCost |
|----|--------------------|---------------------|------------|-------|----------|----------|-----------|-----------|
| 1 | STEIN BROTHERS OIL | 326 CENTERVILLE AVE | BELLEVILLE | ODFLT | Refinery | 111 | | |

Police Station Facilities Report

| ID | Name | Address | City | Class | Stories | ShelterCap | YearBuilt | ReplaCost |
|-----------|------------------------------|-------------------------|---------------|--------------|----------------|-------------------|------------------|------------------|
| 2 | Caseyville Police Dept | 10 W Morris St | Caseyville | EFPS | | | | 1554 |
| 3 | Dupo Police Dept | 100 N 2nd St | Dupo | EFPS | | | | 1554 |
| 5 | Fairview Heights Police Dept | 10027 Bunkum Rd | Fairview | EFPS | | | | 1554 |
| 6 | Smithton Police Dept | 101 S Main St | Smithton | EFPS | | | | 1554 |
| 7 | O'Fallon City Police Dept | 118 E Washington St | O Fallon | EFPS | | | | 1554 |
| 8 | Freeburg Police Dept | 14 Southgate Ctr | Freeburg | EFPS | | | | 1554 |
| 9 | Sauget Police Dept | 2897 Falling Springs Rd | East St Louis | EFPS | | | | 1554 |
| 10 | Mascoutah Police Dept | 3 W Main St | Mascoutah | EFPS | | | | 1554 |
| 11 | East St Louis Police Dept | 301 Riverpark Dr | East St Louis | EFPS | | | | 1554 |
| 12 | Brooklyn Police Dept | 312 S 5th St | Lovejoy | EFPS | | | | 1554 |
| 13 | Lebanon Police Dept | 312 W Saint Louis St | Lebanon | EFPS | | | | 1554 |
| 14 | Marissa Police Dept | 0 E Spring St | Marissa | EFPS | | | | 1554 |
| 18 | Alorton Police Dept | 4821 Bond Ave | Alorton | EFPS | | | | 1554 |
| 19 | Washington Park Police Dept | 5621 Forest Blvd | Washington | EFPS | | | | 1554 |
| 20 | Centreville Police Dept | 5800 Bond Ave | East St Louis | EFPS | | | | 1554 |
| 22 | New Athens Police Dept | 905 Spotsylvania St | New Athens | EFPS | | | | 1554 |
| 23 | East Carondelet Police Dept | 950 State St | East | EFPS | | | | 1554 |
| 24 | Fairmont City Police Depart | 2601 N 41st Street | Fairmont City | EFPS | | | | 1554 |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Stories | ShelterCap | YearBuilt | ReplaCost |
|----|-----------------------------|----------------------|--------------|-------|---------|------------|-----------|-----------|
| 25 | Fayetteville Police Depart | 2212 Main Avenue | Fayetteville | | | | | 1554 |
| 26 | Lenzburg Police Department | 215 N Charles Street | Lenzburg | | | | | 1554 |
| 27 | Millstadt Police Department | 3 W Main Street | 3 W Main | | | | | 1554 |

Port Facilities Report

| ID | Name | Address | City | Class | Function | Berths | YearBuilt | ReplaCost |
|----|-------------------------------------|-------------------------|----------------|-------|----------|--------|-----------|-----------|
| 1 | Kaskaskia Regional Port District | | Kaskaskia | PDFL | 10 | | | 2245.4 |
| 2 | St. Louis Auto Shredding, Inc. | 1200 North First Street | East St. Louis | PDFL | 44 | | | 2245.4 |
| 3 | Mobil Oil Corp., Sauget Terminal | | Cahokia | PDFL | 20 | | | 2245.4 |
| 4 | American Milling Co., Fox Terminal | | Cahokia | PDFL | 99 | | | 2245.4 |
| 5 | Reidy Terminal, East Side Fleet | | Cahokia | PDFL | | | | 2245.4 |
| 6 | Midway Marine, Inc., Phillips Fleet | | Cahokia | PDFL | | | | 2245.4 |
| 7 | Eagle Marine Industries, Riverport | | Cahokia | PDFL | | | | 2245.4 |
| 8 | Peavey/Conagra Inc., Sauget | 10 Pitzman St. | East St. Louis | PDFL | 99 | | | 2245.4 |
| 9 | Midway Marine, Inc., Monsanto | | Cahokia | PDFL | | | | 2245.4 |
| 10 | Cahokia Marine Service Dock. | 2 Monsanto Avenue | Sauget | PDFL | 99 | | | 2245.4 |
| 11 | Eagle Marine Industries, Cahokia | | East St. Louis | PDFL | | | | 2245.4 |
| 12 | The Valley Line Co., Poplar Street | | East St. Louis | PDFL | | | | 2245.4 |
| 13 | Peavey/Conagra Inc., East St. | 1200 North Front Street | East St. Louis | PDFL | 99 | | | 2245.4 |
| 14 | Continental Grain Co., East St. | 430 South Front Street | East St. Louis | PDFL | 60 | | | 2245.4 |
| 15 | Apex Oil Co., East St. Louis Dock. | 8182 Maryland Avenue | East St. Louis | PDFL | 22 | | | 2245.4 |
| 16 | Eagle Marine Industries, Arsenal | | Cahokia | PDFL | | | | 2245.4 |
| 17 | Riverway Repair Dock. | Carondelet | PDFL | | | | | 2245.4 |

Potable Water Facilities Report

| ID | Name | Address | City | Class | Function | Stories | YearBuilt | ReplaCost |
|-----------|------------------------|-------------------------|-------------|--------------|-----------------|----------------|------------------|------------------|
| 1 | IDOT-DIST 8 BOWMAN AVE | 7TH AND BOWMAN | E ST LOUIS | | | | | 36963 |
| 2 | ILLINOIS AMER WATER | 800 N. FRONT ST. | E ST LOUIS | | | | | 36963 |
| 3 | KASKASKIA WTP | 700 SOUTH MARKET STREET | NEW ATHENS | | | | | 36963 |
| 4 | ST. CLAIR ASSOC. | 3001 SAVE ROAD | BELLEVILLE | | | | | 36963 |
| 5 | ST. LIBORY WTP | P.O. BOX 79 | SAINT | | | | | 36963 |
| 6 | SUMMERFIELD LEBANON | SOUTH END OF HIGHBANKS | MASCOUTAH | | | | | 36963 |

Rail Facilities Report

| ID | Name | Address | City | Class | Function | DailyTraffic | YearBuilt | ReplaCost |
|-----------|--------------------------|----------------|-------------|--------------|-----------------|---------------------|------------------|------------------|
| 1 | UP Dupo TOFC/COFC | | | RDF | Cargo | | | 2419.8 |
| 2 | CR E St Louis Rose | | | RDF | Cargo | | | 2419.8 |
| 3 | SP E St Louis | | | RDF | Cargo | | | 2419.8 |
| 4 | East St Louis Terminal & | | | RDF | Cargo | | | 2419.8 |
| 5 | GWRR East St Louis | | | RDF | Cargo | | | 2419.8 |
| 6 | Cahokia Marine Service: | | | RDF | Cargo | | | 2419.8 |
| 7 | Kaskaskia Regional Port | | | RDF | Cargo | | | 2419.8 |
| 8 | American Milling Co: | | | RDF | Cargo | | | 2419.8 |
| 9 | Peavey/ConAgra Sauget | | | RDF | Cargo | | | 2419.8 |
| 10 | Peavey/ConAgra: East | | | RDF | Cargo | | | 2419.8 |
| 11 | Continental Grain Co: E | | | RDF | Cargo | | | 2419.8 |
| 12 | St Louis Auto Shredding: | | | RDF | Cargo | | | 2419.8 |

School Facilities Report

| ID | Name | Address | City | Class | Students | Stories | YearBuilt | ReplaCost |
|-----------|-----------------------|-----------------------|---------------|--------------|-----------------|----------------|------------------|------------------|
| 1 | HOLY CHILDHOOD SCHOOL | 215 NORTH JOHN STREET | MASCOUTAH | EFS1 | 155 | | | 555 |
| 2 | ST JAMES ELEMENTARY | 412 W WASHINGTON | MILLSTADT | EFS1 | 148 | | | 555 |
| 3 | ST AGATHA ELEMENTARY | 207 SOUTH MARKET | NEW ATHENS | EFS1 | 65 | | | 555 |
| 4 | ST JOHN THE BAPTIST | 10 S LINCOLN ST | SMITHTON | EFS1 | 90 | | | 555 |
| 5 | ST JOSEPH SCHOOL | 2 NORTH ALTON ST | FREEBURG | EFS1 | 101 | | | 555 |
| 7 | HOLY ROSARY | 2727 N 43RD STREET | EAST ST LOUIS | EFS1 | 116 | | | 555 |
| 10 | ST TERESA ELEMENTARY | 1108 LEBANON AVE | BELLEVILLE | EFS1 | 314 | | | 555 |
| 11 | ST HENRY ELEMENTARY | 5303 W MAIN ST | BELLEVILLE | EFS1 | 132 | | | 555 |
| 12 | ST AUGUSTINE OF | 1900 W BELLE ST | BELLEVILLE | EFS1 | 103 | | | 555 |
| 149 | ESTELLE SAUGET ACAD | 1700 JEROME LN | CAHOKIA | EFS1 | 204 | | | 555 |
| 151 | FREEBURG PRIMARY | 650 S State St | FREEBURG | EFS1 | 240 | | | 555 |
| 152 | GORDON BUSH ELEM | 1516 GROSS AVE | EAST ST LOUIS | EFS1 | | | | 555 |
| 154 | HOLY TRINITY CATHOLIC | 504 FOUNTAINS PKWY | FAIRVIEW | EFS1 | 179 | | | 555 |
| 155 | JOSEPH ARTHUR MIDDLE | 160 ST ELEEN MINE RD | OFALLON | EFS1 | | | | 555 |
| 162 | SUMMERFIELD GRADE | 100 W LOOKING GLASS | SUMMERFIEL | EFS1 | 94 | | | 555 |
| 163 | SW ILLINOIS COLLEGE | 2500 CARLYLE AVE | BELLEVILLE | EFS2 | 6000 | | | 555 |
| 13 | OUR LADY QUEEN OF | 5915 N BELT WEST | BELLEVILLE | EFS1 | 246 | | | 555 |
| 14 | CATHEDRAL GRADE | 200 S SECOND STREET | BELLEVILLE | EFS1 | 316 | | | 555 |
| 15 | BLESSED SACRAMENT | 8809 WEST MAIN STREET | BELLEVILLE | EFS1 | 199 | | | 555 |
| 16 | ALTHOFF CATHOLIC HIGH | 5401 WEST MAIN STREET | BELLEVILLE | EFS1 | 761 | | | 555 |
| 17 | ST CLARE CATHOLIC | 214 W THIRD ST | O'FALLON | EFS1 | 465 | | | 555 |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Students | Stories | YearBuilt | ReplaCost |
|-----------|-----------------------|-----------------------|---------------|--------------|-----------------|----------------|------------------|------------------|
| 18 | MAMIE STOOKEY SCHOOL | 1306 WABASH AVENUE | BELLEVILLE | EFS1 | 43 | | | 555 |
| 19 | ILLINOIS CENTER FOR | 548 S RUBY LANE | FAIRVIEW | EFS1 | 103 | | | 555 |
| 20 | ZION LUTHERAN SCHOOL | 1810 MCCLINTOCK AVE | BELLEVILLE | EFS1 | 265 | | | 555 |
| 21 | ST CATHERINE LABOURE | 1820 JEROME LANE | CAHOKIA | EFS1 | 150 | | | 555 |
| 22 | APOSTOLIC LEARNING | 400 LOUISA AVE | DUPO | EFS1 | 10 | | | 555 |
| 23 | ST MARY ELEMENTARY | 1722 W MAIN ST | BELLEVILLE | EFS1 | 82 | | | 555 |
| 24 | GOVERNOR FRENCH | 219 W MAIN ST | BELLEVILLE | EFS1 | 220 | | | 555 |
| 25 | HOPE CHRISTIAN SCHOOL | 4101 EAST HIGHWAY 161 | BELLEVILLE | EFS1 | 17 | | | 555 |
| 26 | SR THEA BOWMAN | 8213 CHURCH LN | EAST ST LOUIS | EFS1 | 93 | | | 555 |
| 27 | WHITE OAK ACADEMY | 463 N 88TH ST | EAST ST LOUIS | EFS1 | 17 | | | 555 |
| 28 | CHILDRENS CENTER FOR | 353 N 88TH STREET | CENTREVILLE | EFS1 | 70 | | | 555 |
| 31 | DISCOVERY SCHOOL | 810 OBERNUEFEMANN RD | O'FALLON | EFS1 | 172 | | | 555 |
| 33 | HAZEL BLAND PROMISE | 2900 STATE ST | EAST ST LOUIS | EFS1 | 50 | | | 555 |
| 34 | CALVARY BAPTIST | 423 LUCINDA AVENUE | BELLEVILLE | EFS1 | 40 | | | 555 |
| 35 | FAITH BAPTIST SCHOOL | 405 EAST MAIN | BELLEVILLE | EFS1 | 39 | | | 555 |
| 36 | CROSSROADS | 1052 STATE ST | EAST ST LOUIS | EFS1 | 14 | | | 555 |
| 37 | MONTESSORI SCHOOL ST | 2360 COUNTRY ROAD | BELLEVILLE | EFS1 | 50 | | | 555 |
| 38 | SOUTHWESTERN IL | 950 KINGSHWY ST | E ST LOUIS | EFS1 | 179 | | | 555 |
| 147 | CORPUS CHRIST | 116 CHURCH | CAHOKIA | EFS1 | | | | 555 |
| 148 | DELORES MOYE ELEM | 1010 MOYE SCHOOL RD | OFALLON | EFS1 | 789 | | | 555 |
| 153 | HARMONY PRESCHOOL | 500 Wilshire | BELLEVILLE | EFS1 | | | | 555 |
| 40 | SAFE SCHOOL PROGRAM | 25 BELLEVUE PARK PLZ | BELLEVILLE | EFS1 | 32 | | | 555 |
| 41 | BELLE VALLEY ELEM | 100 ANDORA DR | BELLEVILLE | EFS1 | 490 | | | 555 |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Students | Stories | YearBuilt | ReplaCost |
|-----------|------------------------|-----------------------|-------------|--------------|-----------------|----------------|------------------|------------------|
| 42 | BELLE VALLEY ELEM | 1901 MASCOUTAH ROAD | BELLEVILLE | EFS1 | 417 | | | 555 |
| 43 | ABRAHAM LINCOLN ELEM | 820 ROYAL HEIGHTS RD | BELLEVILLE | EFS1 | 440 | | | 555 |
| 44 | CENTRAL JR HIGH SCHOOL | 1801 CENTRAL SCH RD | BELLEVILLE | EFS1 | 422 | | | 555 |
| 45 | DOUGLAS ELEM SCHOOL | 125 CARLYLE AVE | BELLEVILLE | EFS1 | 295 | | | 555 |
| 46 | FRANKLIN ELEM SCHOOL | 301 N 2ND ST | BELLEVILLE | EFS1 | 278 | | | 555 |
| 47 | HENRY RAAB ELEM | 1120 UNION AVE | BELLEVILLE | EFS1 | 172 | | | 555 |
| 48 | JEFFERSON ELEM | 1400 N CHARLES ST | BELLEVILLE | EFS1 | 376 | | | 555 |
| 49 | ROOSEVELT ELEM SCHOOL | 700 W CLEVELAND AVE | BELLEVILLE | EFS1 | 362 | | | 555 |
| 50 | UNION ELEM SCHOOL | 20 S 27TH ST | BELLEVILLE | EFS1 | 390 | | | 555 |
| 51 | WEST JR HIGH SCHOOL | 840 ROYAL HEIGHTS RD | BELLEVILLE | EFS1 | 402 | | | 555 |
| 52 | WESTHAVEN ELEMENTARY | 118 WESTHAVEN SCH RD | BELLEVILLE | EFS1 | 531 | | | 555 |
| 53 | WASHINGTON SCHOOL | 400 S CHARLES ST | BELLEVILLE | EFS1 | 131 | | | 555 |
| 54 | BELLEVILLE HIGH | 2555 WEST BLVD | BELLEVILLE | EFS1 | 2674 | | | 555 |
| 55 | BELLEVILLE HIGH | 4063 FRANK SCOTT PARK | BELLEVILLE | EFS1 | 2335 | | | 555 |
| 57 | CAHOKIA HIGH SCHOOL | 800 RANGE LN | CAHOKIA | EFS1 | 1248 | | | 555 |
| 58 | CENTERVILLE ELEM | 3429 CAMP JACKSON RD | CAHOKIA | EFS1 | 384 | | | 555 |
| 59 | PENNIMAN ELEM SCHOOL | 300 ANNUNCIATION CT | CAHOKIA | EFS1 | 355 | | | 555 |
| 60 | HUFFMAN ELEM SCHOOL | 600 ST ROBERT DR | CAHOKIA | EFS1 | 410 | | | 555 |
| 61 | LALUMIER ELEM SCHOOL | 6702 BOND AVE | EAST SAINT | EFS1 | 366 | | | 555 |
| 62 | MAPLEWOOD ELEM | 600 JEROME LN | CAHOKIA | EFS1 | 340 | | | 555 |
| 63 | ELIZABETH MORRIS ELEM | 1500 ANDREWS DR | CAHOKIA | EFS1 | 330 | | | 555 |
| 64 | WIRTH PARK MIDDLE | 1900 MOUSETTE LN | CAHOKIA | EFS1 | 913 | | | 555 |
| 145 | BLUFFVIEW ELEM SCHOOL | 905 BLUFFVIEW ELEM | DUPO | EFS1 | | | | 555 |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Students | Stories | YearBuilt | ReplaCost |
|-----------|-------------------------|---------------------|---------------|--------------|-----------------|----------------|------------------|------------------|
| 66 | FORT BOWMAN ACADEMY | 2734 CALVIN BLVD | CAHOKIA | EFS1 | 274 | | | 555 |
| 67 | JEROME EARLY | 1825 JEROME LN | CAHOKIA | EFS1 | 220 | | | 555 |
| 68 | EARLY LEARNING | 3431 MISSISSIPPI | CAHOKIA | EFS1 | 196 | | | 555 |
| 69 | CENTRAL SCHOOL | 309 HARTMAN LN | OFALLON | EFS1 | 359 | | | 555 |
| 70 | COLLINSVILLE HIGH | 2201 S MORRISON AVE | COLLINSVILL | EFS1 | 2040 | | | 555 |
| 71 | HOLLYWOOD HEIGHTS | 6 N OAKLAND DR | CASEYVILLE | EFS1 | 118 | | | 555 |
| 72 | JEFFERSON ELEM | 152 BOSKYDELLS | COLLINSVILL | EFS1 | 114 | | | 555 |
| 73 | TWIN ECHO ELEM SCHOOL | 1937 S MORRISON AVE | COLLINSVILL | EFS1 | 241 | | | 555 |
| 74 | CASEYVILLE ELEMENTARY | 433 S 2ND ST | CASEYVILLE | EFS1 | 174 | | | 555 |
| 76 | DUPO JR HIGH SCHOOL | 600 LOUISA AVE | DUPO | EFS1 | 179 | | | 555 |
| 77 | DUPO HIGH SCHOOL | 600 LOUISA AVE | DUPO | EFS1 | 340 | | | 555 |
| 156 | LINDENWOOD | 2600 W Main St | Belleville | EFS2 | | | | 555 |
| 157 | MCKINDREE COLLEGE | 701 College Street | LEBANON | EFS2 | | | | 555 |
| 79 | EAST CARONDELET ELEM | 115 S 7TH ST | EAST | EFS1 | 125 | | | 555 |
| 80 | EAST ST LOUIS-LINCOLN | 1211 BOND AVE | EAST SAINT | EFS1 | 714 | | | 555 |
| 84 | EAST ST LOUIS SENIOR | 4901 STATE ST | EAST SAINT | EFS1 | 1925 | | | 555 |
| 85 | CLARK MIDDLE SCHOOL | 3310 STATE ST | EAST SAINT | EFS1 | 479 | | | 555 |
| 86 | WYVETTER YOUNGE | 3939 CASEYVILLE AVE | EAST SAINT | EFS1 | 581 | | | 555 |
| 87 | ALTA SITA ELEM SCHOOL | 2601 BOND AVE | EAST SAINT | EFS1 | 264 | | | 555 |
| 89 | DUNBAR ELEM SCHOOL | 1835 TUDOR AVE | EAST SAINT | EFS1 | 433 | | | 555 |
| 143 | AVANT ELEM SCHOOL | 1915 N 55TH | EAST ST LOUIS | EFS1 | | | | 555 |
| 144 | BELLEVILLE AREA SPECIAL | 2411 PATHWAYS CROS | BELLEVILLE | EFS1 | | | | 555 |
| 158 | MILLSTADT PRIMARY | 105 W PKW DR | MIDDSTADT | EFS1 | | | | 555 |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Students | Stories | YearBuilt | ReplaCost |
|-----------|-------------------------|---------------------|---------------|--------------|-----------------|----------------|------------------|------------------|
| 159 | SIUE E ST LOUIS CHARTER | 601 JMS R THOMPSON | EAST SAINT | EFS1 | 107 | | | 555 |
| 160 | SHILOH MIDDLE SCHOOL | 1 WILDCAT CROSS | SHILOH | EFS1 | 266 | | | 555 |
| 90 | EDGEMONT ELEM SCHOOL | 8601 WASHINGTON ST | EAST SAINT | EFS1 | 247 | | | 555 |
| 91 | HARDING ELEM SCHOOL | 731 N 74TH ST | EAST SAINT | EFS1 | 346 | | | 555 |
| 92 | JACKSON ELEM SCHOOL | 1798 COLLEGE AVE | EAST SAINT | EFS1 | 265 | | | 555 |
| 93 | NELSON MANDELLA | 1800 N 25TH ST | EAST SAINT | EFS1 | 252 | | | 555 |
| 94 | LILLY-FREEMAN ELEM | 1236 E BROADWAY | EAST SAINT | EFS1 | 296 | | | 555 |
| 95 | LUCAS ELEM SCHOOL | 1620 RUSSELL AVE | EAST SAINT | EFS1 | 194 | | | 555 |
| 96 | MANNERS ELEM SCHOOL | 1516 GROSS AVE | EAST SAINT | EFS1 | 349 | | | 555 |
| 97 | BILLY JONES | 1601 CLEVELAND | EAST ST LOUIS | EFS1 | 154 | | | 555 |
| 98 | MORRISON ELEM SCHOOL | 630 N 59TH ST | EAST SAINT | EFS1 | 356 | | | 555 |
| 99 | JOHN ROBINSON | 1435 MARKET AVE | EAST SAINT | EFS1 | 238 | | | 555 |
| 100 | PARK ANNEX ELEMENTARY | 525 NORTH 25TH ST | EAST ST LOUIS | EFS1 | 185 | | | 555 |
| 169 | KATE HARPER WRIGHT | 7710 STATE ST | EAST ST LOUIS | EFS1 | 533 | | | 555 |
| 102 | HAWTHORNE ELEM | 1600 N 40TH ST | EAST SAINT | EFS1 | 318 | | | 555 |
| 103 | DONALD MCHENRY | 2700 SUMMIT AVE | EAST SAINT | EFS1 | 254 | | | 555 |
| 104 | MILES D DAVIS ELEM | 725 N 15TH ST | EAST SAINT | EFS1 | 312 | | | 555 |
| 105 | VERNICE G NEELEY | 4400 GRAND ST | ALORTON | EFS1 | 153 | | | 555 |
| 106 | ALTERNATIVE HIGH | 4400 GRAND ST | ALORTON | EFS1 | 237 | | | 555 |
| 108 | BROWN ELEM SCHOOL | 4850 MARKET ST | EAST SAINT | EFS1 | 178 | | | 555 |
| 109 | ELLIS ELEM SCHOOL | 250 ILLINI DR | BELLEVILLE | EFS1 | 478 | | | 555 |
| 110 | EMGE JUNIOR HIGH | 7401 WESTCHESTER DR | BELLEVILLE | EFS1 | 372 | | | 555 |
| 111 | FREEBURG ELEM SCHOOL | 408 S BELLEVILLE ST | FREEBURG | EFS1 | 518 | | | 555 |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Students | Stories | YearBuilt | ReplaCost |
|-----------|-----------------------|----------------------|---------------|--------------|-----------------|----------------|------------------|------------------|
| 112 | FREEBURG COMMUNITY | 401 S MONROE ST | FREEBURG | EFS1 | 730 | | | 555 |
| 113 | GRANT MIDDLE SCHOOL | 10110 OLD LINCOLN TR | FAIRVIEW | EFS1 | 395 | | | 555 |
| 164 | TOMORROWS BUILDERS | 1405 STATE ST | EAST ST LOUIS | EFS1 | 126 | | | 555 |
| 165 | VINCENT GRAY ACADEMY | 402 B 9TH ST | EAST ST LOUIS | EFS1 | 40 | | | 555 |
| 166 | VIVIAN ADAMS CENTER | 501 N 10TH ST | EAST ST LOUIS | EFS1 | 440 | | | 555 |
| 114 | ILLINI ELEM SCHOOL | 21 CIRCLE DR | FAIRVIEW | EFS1 | 386 | | | 555 |
| 115 | HIGH MOUNT ELEM | 1721 BOUL AVE | SWANSEA | EFS1 | 469 | | | 555 |
| 116 | LEBANON ELEM SCHOOL | 102 W SCHUETZ ST | LEBANON | EFS1 | 368 | | | 555 |
| 117 | LEBANON HIGH SCHOOL | 200 W SCHUETZ ST | LEBANON | EFS1 | 223 | | | 555 |
| 118 | MARISSA JR & SR HIGH | 300 SCHOOL VIEW DR | MARISSA | EFS1 | 268 | | | 555 |
| 119 | MARISSA ELEM SCHOOL | 206 E FULTON ST | MARISSA | EFS1 | 366 | | | 555 |
| 120 | MASCOUTAH HIGH SCHOOL | 1313 W MAIN ST | MASCOUTAH | EFS1 | 836 | | | 555 |
| 121 | MASCOUTAH MIDDLE | 846 N 6TH ST | MASCOUTAH | EFS1 | 610 | | | 555 |
| 122 | MASCOUTAH ELEM SCHOOL | 533 N 6TH ST | MASCOUTAH | EFS1 | 763 | | | 555 |
| 123 | SCOTT ELEM SCHOOL | 4732 PATRIOTS DR | SCOTT A F | EFS1 | 618 | | | 555 |
| 124 | MILLSTADT ELEM SCHOOL | 211 W MILL ST | MILLSTADT | EFS1 | 850 | | | 555 |
| 125 | NEW ATHENS HIGH | 501 HANFT ST | NEW ATHENS | EFS1 | 186 | | | 555 |
| 126 | NEW ATHENS ELEM | 501 HANFT ST | NEW ATHENS | EFS1 | 288 | | | 555 |
| 127 | NEW ATHENS JR HIGH | 501 HANFT ST | NEW ATHENS | EFS1 | 149 | | | 555 |
| 128 | ESTELLE KAMPMEYER | 707 N SMILEY ST | OFALLON | EFS1 | 465 | | | 555 |
| 129 | J EMMETT HINCHCLIFFE | 1050 OGLE RD | OFALLON | EFS1 | 420 | | | 555 |
| 130 | LAVERNA EVANS ELEM | 802 DARTMOUTH DR | OFALLON | EFS1 | 425 | | | 555 |
| 132 | EDWARD FULTON JR HIGH | 307 KYLE RD | OFALLON | EFS1 | 789 | | | 555 |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Class | Students | Stories | YearBuilt | ReplaCost |
|-----------|-----------------------|----------------------|---------------|--------------|-----------------|----------------|------------------|------------------|
| 133 | MARIE SCHAEFER | 505 S CHERRY ST | OFALLON | EFS1 | 445 | | | 555 |
| 134 | O FALLON HIGH SCHOOL | 600 S SMILEY ST | OFALLON | EFS1 | 2404 | | | 555 |
| 135 | PONTIAC JR HIGH | 400 ASHLAND PL | FAIRVIEW | EFS1 | 163 | | | 555 |
| 136 | WILLIAM HOLLIDAY ELEM | 400 JOSEPH DR | FAIRVIEW | EFS1 | 563 | | | 555 |
| 137 | SHILOH VILLAGE ELEM | 125 DIAMOND COURT | OFALLON | EFS1 | 317 | | | 555 |
| 138 | SIGNAL HILL ELEM | 40 SIGNAL HILL PL | BELLEVILLE | EFS1 | 435 | | | 555 |
| 139 | WHITESIDE ELEM SCHOOL | 2028 LEBANON AVE | BELLEVILLE | EFS1 | 804 | | | 555 |
| 161 | SMITHTON ELEM SCHOOL | 316 S HICORY | SMITHTON | EFS1 | 465 | | | 555 |
| 140 | WOLF BRANCH ELEM | 125 HUNTWOOD RD | SWANSEA | EFS1 | 545 | | | 555 |
| 141 | PATHWAYS SCHOOL | 2401 PATHWAYS CRSSNG | BELLEVILLE | EFS1 | 58 | | | 555 |
| 142 | ANNETTE OFFICER ELEM | 558 N 27TH ST | EAST ST LOUIS | EFS1 | 344 | | | 555 |
| 167 | WHITESIDE MIDDLE | 111 WARRIOR WAY | BELLEVILLE | EFS1 | 594 | | | 555 |
| 168 | WOLF BRANCH MIDDLE | 410 HUNTWOOD RD | SWANSEA | EFS1 | 357 | | | 555 |

WasteWater Facilities Report

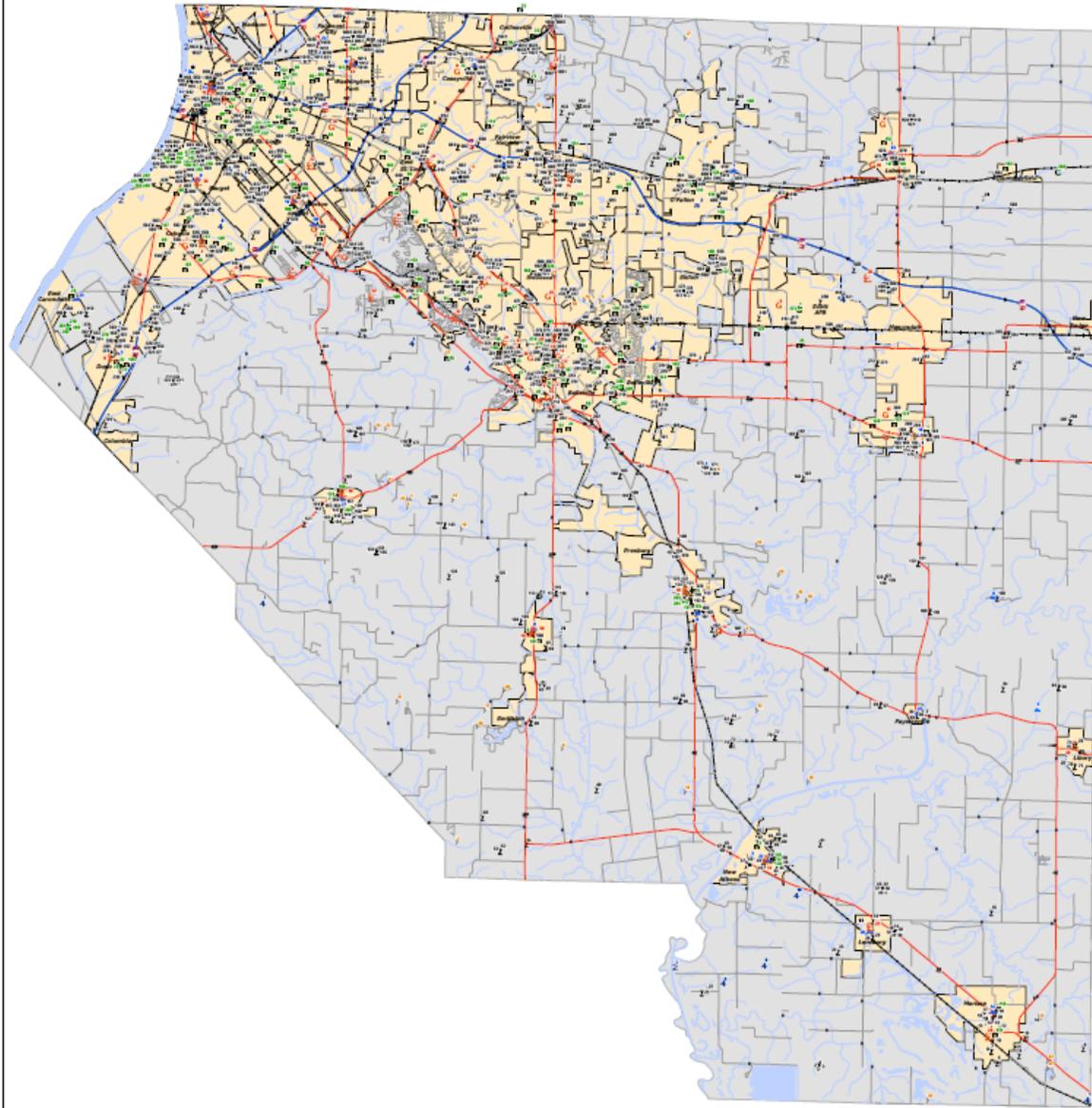
| ID | Name | Address | City | Function | Class | Stories | YearBuilt | ReplaCost |
|-----------|-------------------|---------------------------|-------------|-----------------|--------------|----------------|------------------|------------------|
| 1 | AMER BOTTOMS | 13 MOBILE STREET | SAUGET | | WDF | | | 73926 |
| 2 | BELLEVILLE SEWAGE | 101 SOUTH ILLINOIS STREET | BELLEVILLE | | WDF | | | 73926 |
| 3 | BELLEVILLE STP #2 | 6000 WEST ILLINOIS RTE 15 | BELLEVILLE | | WDF | | | 73926 |
| 4 | CASEYVILLE | EAST STP | O FALLON | | WDF | | | 73926 |
| 5 | CASEYVILLE | WEST SEWAGE TREATMENT | O FALLON | | WDF | | | 73926 |
| 6 | DUPO WWTP | 100 NORTH 2ND STREET | DUPO | | WDF | | | 73926 |

St. Clair County Multi-Hazard Mitigation Plan

| ID | Name | Address | City | Function | Class | Stories | YearBuilt | ReplaCost |
|-----------|-------------------|----------------------------|--------------|-----------------|--------------|----------------|------------------|------------------|
| 7 | FAYETTEVILLE STP | 1ST AND WATER STREET | FAYETTEVILLE | | WDF | | | 73926 |
| 8 | FREEBURG EAST STP | STATE ROUTE 15 | FREEBURG | | WDF | | | 73926 |
| 9 | FREEBURG WEST | 14 SOUTHGATE CENTER | FREEBURG | | WDF | | | 73926 |
| 10 | ILLINOIS AMER | 800 N. FRONT ST. | E ST LOUIS | | WDF | | | 73926 |
| 11 | JOINT AMERICAN | #1 AMERICAN BOTTOMS RD | SAUGET | | WDF | | | 73926 |
| 12 | LEBANON STP | R.R. #1 BOX 137A | LEBANON | | WDF | | | 73926 |
| 13 | LENZBURG STP | GOLDEN RULE MINE ROAD | LENZBURG | | WDF | | | 73926 |
| 14 | MARISSA STP | WEST 8TH STREET | MARISSA | | WDF | | | 73926 |
| 15 | MILLSTADT STP | S. KOSSUTH STREET | MILLSTADT | | WDF | | | 73926 |
| 16 | NEW ATHENS WWTP | 2615 RIVER ROAD | NEW ATHENS | | WDF | | | 73926 |
| 17 | O'FALLON STP | 255 SOUTH LINCOLN AVENUE | O'FALLON | | WDF | | | 73926 |
| 18 | SAINT CLAIR TWP | 201 SERVICE STREET | BELLEVILLE | | WDF | | | 73926 |
| 19 | SAUGET ABRTF | #1 AMERICAN BOTTOMS ROAD | SAUGET | | WDF | | | 73926 |
| 20 | SAUGET | ONE MOBILE AVE | SAUGET | | WDF | | | 73926 |
| 21 | SMITHTON STP | 101 SOUTH MAIN | SMITHTON | | WDF | | | 73926 |
| 22 | ST. LIBORY STP | VILLAGE HALL | SAINT LIBORY | | WDF | | | 73926 |
| 23 | STOOKEY WASTE | 7800 WEST ILLINOIS HIGHWAY | BELLEVILLE | | WDF | | | 73926 |
| 24 | SUMMERFIELD STP | COUNTY HIGHWAY SOUTH | SUMMERFIELD | | WDF | | | 73926 |
| 25 | SWANSEA SEWAGE | 1400 NORTH ILLINOIS STREET | SWANSEA | | WDF | | | 73926 |

Appendix G: Critical Facilities Maps

Please See also PDF Files on Disk or Attached Maps



St. Clair County Pre-Disaster Mitigation Plan

Critical Facilities Map

2

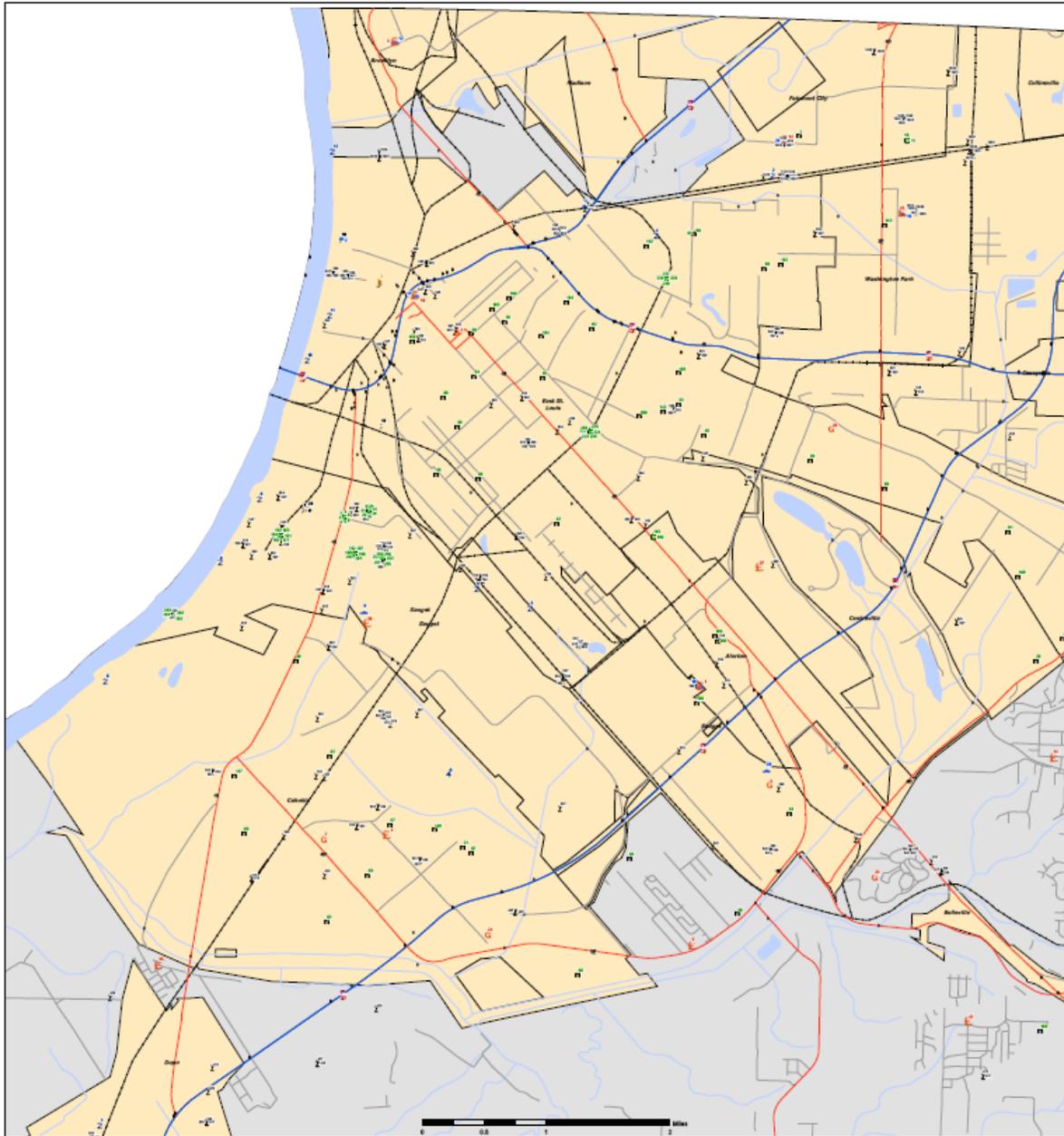
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|---|---|--|--|--|
| C Care Facility | 4 Airport | C Hazardous Material | — Interstate | • Bridge |
| J Emergency Operation Center | • Bus Facility | — Potable Water Facility | — State Road | ~ River |
| E Fire Station | Z Communication Facility | Z Rail Facility | — Local Road | ● Lake |
| — Police Station | D Dam | W Wastewater Facility | — Railroad | ● City |
| ■ School | ⊙ Electric Power Facility | | | |

Southwestern Illinois Metropolitan
& Regional Planning Commission
2511 Vandalia Street
Collinsville, IL 62234
Phone: (618) 344-4250

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Data Sources: Geographic Names Information System (GNIS), HAZUS-ME, Illinois Department of Health, Illinois State Fire Marshal, Environmental Protection Agency (EPA), Illinois Emergency Management Agency (IEMA)



St. Clair County Pre-Disaster Mitigation Plan

Critical Facilities Map

2

Legend

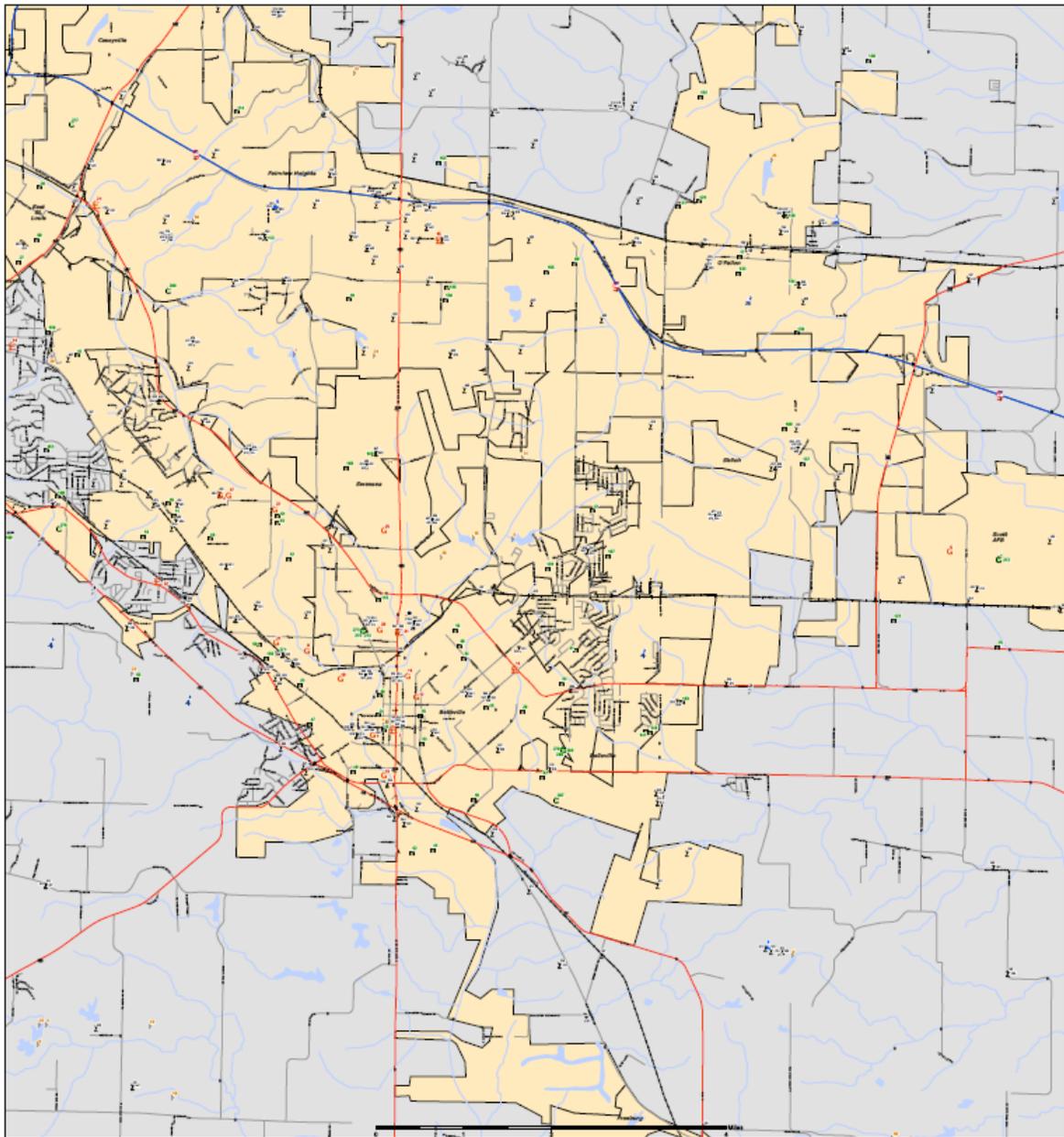
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|------------------------------|---------------------------|--------------------------|--------------|--------------------------|
| ○ Care Facility | ✈ Airport | ⊙ Hazardous Material | — Interstate | — Bridge |
| ⌚ Emergency Operation Center | 🚌 Bus Facility | ⌚ Potable Water Facility | — State Road | — River |
| 🚒 Fire Station | 📡 Communication Facility | 🚂 Rail Facility | — Local Road | 🌊 Lake |
| 👮 Police Station | 🏰 Dams | ⌚ Wastewater Facility | 🚊 Railroad | 🏘 Incorporated Community |
| 🎓 School | ⚡ Electric Power Facility | | | |

Southwestern Illinois Metropolitan
& Regional Planning Commission
2511 Vandalla Street
Collinsville, IL 62234
Phone: (618) 344-4250
Fax: (618) 344-4253

Data Sources: U.S. Geologic Survey; HA220-MR; Illinois Department of Health; Illinois State Fire Marshal; Environmental Protection Agency (EPA); Illinois Department of Transportation (IDOT)

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St. Clair County Multi-Hazard Mitigation Plan



St. Clair County Pre-Disaster Mitigation Plan

Critical Facilities Map

2

Legend

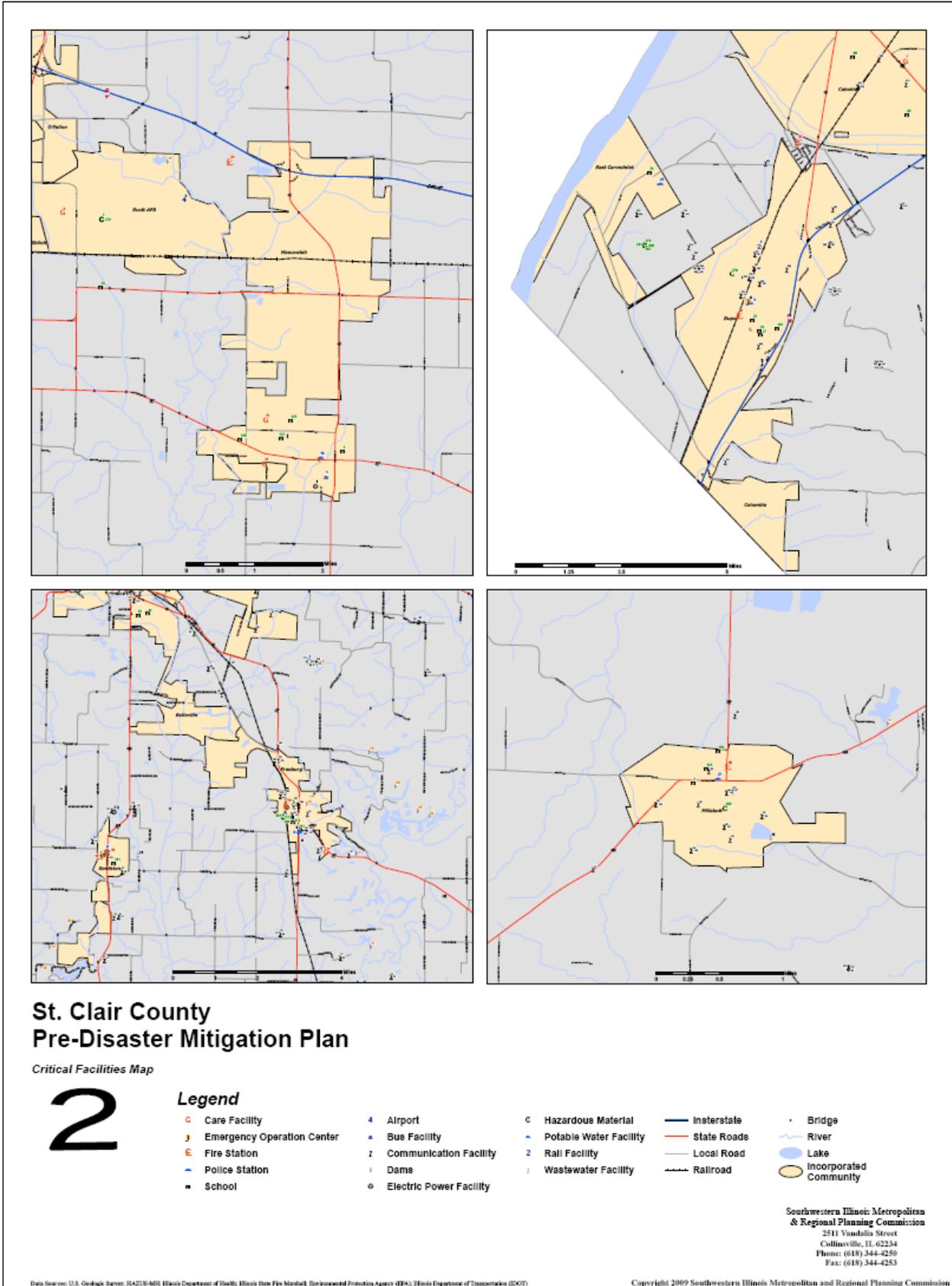
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|------------------------------|---------------------------|--------------------------|---------------|--------------------------|
| ○ Care Facility | ✈ Airport | ● Hazardous Material | — Interstate | • Bridge |
| ■ Emergency Operation Center | ■ Bus Facility | ▲ Potable Water Facility | — State Roads | — River |
| ▲ Fire Station | ■ Communication Facility | ■ Rail Facility | — Local Road | ● Lake |
| ▲ Police Station | ■ Dams | ■ Wastewater Facility | — Railroad | ○ Incorporated Community |
| ■ School | ○ Electric Power Facility | | | |

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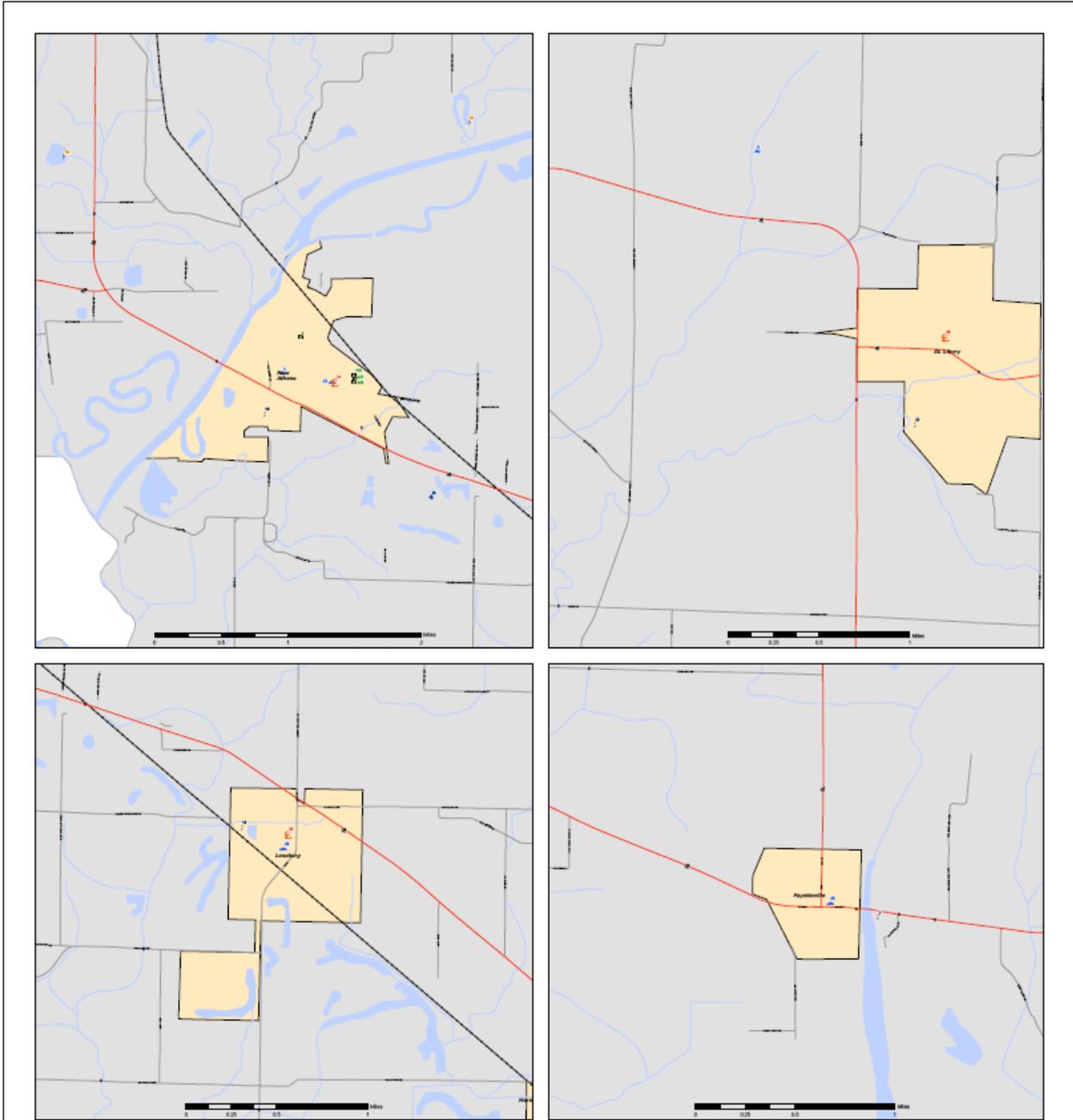
Data Sources: U.S. Geologic Survey; HAZUS-ME; Illinois Department of Health; Illinois State Fire Marshal; Environmental Protection Agency (EPA); Illinois Department of Transportation (IDOT)

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St. Clair County Multi-Hazard Mitigation Plan



St. Clair County Multi-Hazard Mitigation Plan



St. Clair County Pre-Disaster Mitigation Plan

Critical Facilities Map

2

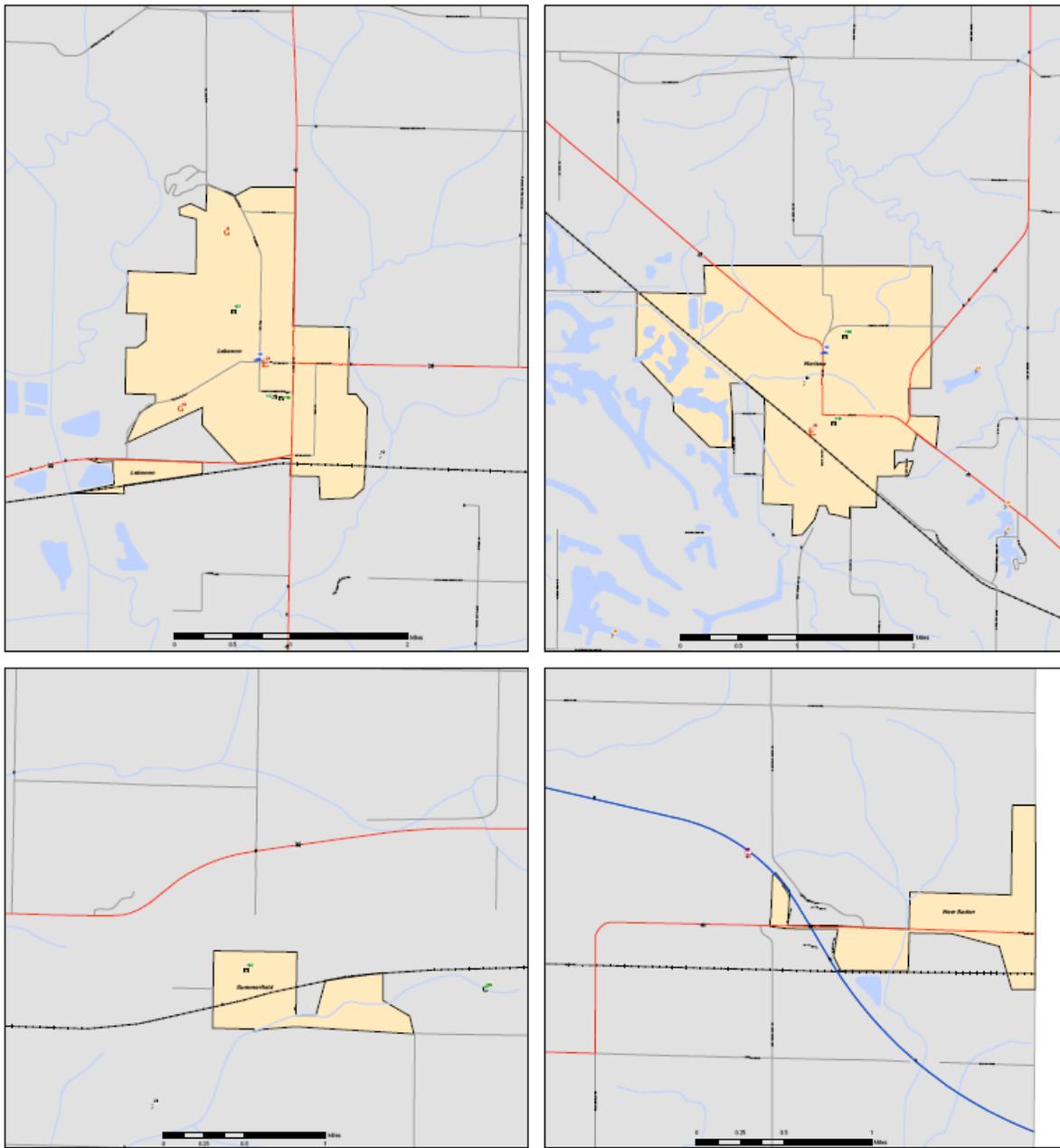
Legend

- | | | | | |
|---|---|--|--|--|
| C Care Facility | A Airport | C Hazardous Material | — Interstate | — Bridge |
| J Emergency Operation Center | B Bus Facility | P Potable Water Facility | — State Roads | ~ River |
| E Fire Station | Z Communication Facility | R Rail Facility | — Local Road | L Lake |
| P Police Station | D Dams | W Wastewater Facility | — Railroad | O Incorporated Community |
| S School | E Electric Power Facility | | | |

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Data Source: U.S. Census Bureau; HAZUS-MH; Illinois Department of Transportation; Illinois State Police; Illinois Environmental Protection Agency; Illinois State Police; Illinois Department of Transportation (IDOT)

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St. Clair County Pre-Disaster Mitigation Plan

Critical Facilities Map

2

Legend

- | | | | | |
|--|---|--|---|--|
| <ul style="list-style-type: none"> ● Care Facility ● Emergency Operation Center ● Fire Station ● Police Station ■ School | <ul style="list-style-type: none"> ● Airport ● Bus Facility ● Communication Facility ● Dams ● Electric Power Facility | <ul style="list-style-type: none"> ● Hazardous Material ● Potable Water Facility ● Rail Facility ● Wastewater Facility | <ul style="list-style-type: none"> — Interstate — State Road — Local Road — Railroad | <ul style="list-style-type: none"> ● Bridge — River — Lake ● Incorporated Community |
|--|---|--|---|--|

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Data Source: U.S. Geologic Survey; HAZUS-ME; Illinois Department of Health; Illinois State Fire Marshal; Environmental Protection Agency (EPA); Illinois Department of Transportation (IDOT)

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Appendix H - NOAA Flood Data: USGS Stream Gage Data

St. Clair County Multi-Hazard Mitigation Plan

Top ten flood flows from the USGS Stream Gage Data

| County Station | St Clair Near Caseyville, IL Canteen Creek | St Clair Near New Athens, IL Kaskaskia River | St Clair Near Collinsville, IL Little Canteen Creek Tributary | | | |
|------------------|--|--|--|--------------------|------------|--------------------|
| Period of Record | 1939-1984 | 1908-1971 | 1959-1972 | | | |
| Latitude | 38°38'35" | 38°19'11" | 38°37'38" | | | |
| Longitude | 90°01'00" | 89°53'19" | 89°59'04" | | | |
| Rank | Date | Discharge (cfs) | Date | Discharge (cfs) | Date | Discharge (cfs) |
| 1 | 06/15/1957 | 10,200 | 05/23/1943 | 83,000 | 06/30/1960 | 613 |
| 2 | 08/16/1946 | 10,000 | 08/19/1946 | 71,700 | 03/19/1970 | 579 |
| 3 | 05/08/1961 | 5,100 | 05/13/1961 | 66,600 | 05/07/1961 | 513 |
| 4 | 07/09/1942 | 4,640 | 08/26/1915 | 63,100 | 07/07/1962 | 402 |
| 5 | 07/04/1956 | 3,650 | 05/11/1908 | 62,800 | 09/21/1972 | 328 |
| 6 | 02/09/1966 | 3,630 | 01/10/1950 | 60,200 | 07/07/1969 | 310 |
| 7 | 07/26/1948 | 3,290 | 03/30/1913 | 56,600 | 03/06/1964 | 155 |
| 8 | 07/07/1965 | 3,000 | 02/03/1916 | 54,800 | 05/25/1968 | 124 |
| 9 | 06/20/1951 | 2,970 | 06/20/1957 | 48,700 | 01/02/1966 | 109 |
| 10 | 04/11/1979 | 2,720 | 04/05/1938 | 44,000 | 08/17/1959 | 83 |

| County Station | St Clair Near Marissa, IL Mud Creek | St Clair Near Hecker, IL Richland Creek | St Clair Near Freeburg, IL Silver Creek | | | |
|------------------|---|---|---|--------------------|------------|--------------------|
| Period of Record | 1971-1982 | 1970-2007 | 1971-2007 | | | |
| Latitude | 38°15'47" | 38°19'26" | 38°24'22" | | | |
| Longitude | 89°43'54" | 89°58'14" | 89°52'26" | | | |
| Rank | Date | Discharge (cfs) | Date | Discharge (cfs) | Date | Discharge (cfs) |
| 1 | 03/12/1979 | 5,520 | 04/29/1996 | 23,400 | 05/19/1995 | 15,300 |
| 2 | 03/28/1977 | 4,900 | 11/02/1972 | 14,900 | 01/07/2007 | 11,900 |
| 3 | 01/31/1982 | 3,940 | 05/17/1995 | 13,700 | 03/14/1994 | 11,300 |
| 4 | 04/25/1975 | 2,550 | 05/16/1990 | 9,970 | 05/17/1990 | 11,000 |
| 5 | 03/11/1973 | 2,050 | 09/23/1993 | 9,020 | 04/14/1979 | 9,200 |
| 6 | 12/25/1973 | 1,680 | 07/28/1979 | 8,980 | 02/03/1986 | 8,570 |
| 7 | 04/22/1972 | 1,460 | 11/14/1993 | 8,970 | 12/27/1982 | 7,890 |
| 8 | 05/19/1981 | 1,290 | 11/19/1986 | 8,410 | 04/14/1994 | 7,860 |
| 9 | 03/08/1978 | 1,270 | 02/07/1999 | 7,990 | 04/27/1975 | 7,750 |
| 10 | 03/29/1980 | 1,170 | 12/24/1982 | 7,770 | 05/11/2002 | 7,750 |

St. Clair County Multi-Hazard Mitigation Plan

| | | | |
|-----------------------------|--|--------------|------------------------|
| County Station River | St. Louis St. Louis, MO Mississippi River | | |
| Period of Record | 1971-1982 | | |
| Latitude | 38°37'44.4" | | |
| Longitude | 90°10'47.2" | | |
| Rank | Date | Stage | Discharge (cfs) |
| 1 | Aug. 01, 1993 | 49.58 | 1,070,000 |
| 2 | Jun. 10, 1903 | 38 | 1,020,000 |
| 3 | Jun. 27, 1844 | 41.32 | 1,000,000 |
| 4 | Feb. 18, 1899 | | 970,000 |
| 5 | May 19, 1892 | | 926,000 |
| 6 | Apr. 26, 1927 | 36.1 | 889,300 |
| 7 | Jun. 25, 1883 | | 863,000 |
| 8 | Jul. 15, 1909 | 35.25 | 861,000 |
| 9 | Apr. 28, 1973 | 43.23 | 852,000 |
| 10 | Jun. 20, 1908 | 34.95 | 850,000 |