MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

MADISON COUNTY, ILLINOIS

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APPENDIX A

Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

March 26, 2024

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	Callie Smith	AEC	Environmental Analyst
2.	Fred Patterson	EMA	Director
3.	Gabrielle Riggs	EMA	Emergency Preparedness Planner
4.	Donald Watkins	Venice Williamson PD	Chief
5.	Duane Teke	Village of Alhambra	Supt.
6.	TODD SHAW	FORT RUSSELL TWP	HIGHWAY COMMISSIONER
7.	Clayton Loraine	Madison County GIS	Manager of GIS
8.	JOHN UHL	VILLAGE OF GODFREY	ENGINEER TECHNICIAN
9.	DOUG DANKENBRING	MARYVILLE FIRE DEPT	FIRE CHIEF
10.	Walt Bloevogel	Worden Fire Prot. Dist / Village of Worden PW	Village Engineer
11.	JASON WHITAKER	GLEN CARBON FPD	FIRE CHIEF
12.	MATT Heathers	Wood River township	Stormwater
13.	ANDY Cheatham	Wood River Township	
14.	RICH MOORE	GRANITE CITY EMA/FD	FIRE CHIEF
15.	Tricia Blackwood	ROE	Assistant Sup
16.	Kimberly Willis	ROE	Office Manager

Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

March 26, 2024

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	DENNIS STANFORD	O SF SAHC	EMS COORDINATOR
2.	Justin Roehr	MESD	Superintendent
3.	Mike Nordstrom	MESD	Executive Director
4.	Erin Boester	Madison Co Health Dept.	Health Protection Division
5.	Mary Rivera	St. Mary's Cath. - Alton	Principal
6.	Rob Hancock	City of Troy	Public Works Director
7.	NATE KAMP	WOOD RIVER	DEPUTY FIRE CHIEF
8.	KEVIN WILLIAMS	WOOD RIVER D+LD	EXECUTIVE DIRECTOR
9.	Phil Shell	America's Central Port	Project Manager
10.	JAMES WHITEFORD	EDWARDSVILLE FIRE	FIRECHIEF
11.	Timothy Harmon	Marquette Catholic H.S. - Alton	Principal
12.	Mark Gerniqiq	Wood River TWP Road	commissioner
13.	Rocky Mc Donald	" "	Foreman
14.	Tim Dyer	Roxana School Dist / SRFPD	Maint / Dep. Chief
15.	ADAM WALDEN	MADISON CO. HIGHWAY	COUNTY ENGINEER
16.	BRAD TONSOR	Kinder Morgan	Terminal Manager

Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

March 26, 2024

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	MATT FISCHER	AFD	DEP. CHIEF
2.	JESSE L. JEMISON, JR	ALTON FIRE DEPT	CHIEF
3.	Ken Rupkle	AEC	RISK ASSESSOR
4.	Barbara Wheat	~~Worden~~ Worden PD	Chief
5.	~~Captain~~ Sean Grey	The Salvation Army	Captain
6.	MARK FOLEY	Collinsville School District	Security
7.	Tim Quibley	East Alton Fire Dept	Chief
8.	Kevin Rutz	Leef TWR	Road Comm.
9.	George May	Troy Fire Prot. Dist.	Fire Chief
10.	RICH BERAN	VILLAGE OF GODFREY	VILLAGE ENGINEER /
11.	Don GRIMM	Village of Hamel	Public Works
12.	Kathy Trucano-Hoelscher	Collinsville Township	Highway Commissioner
13.	Shane Fulton	maryville B+Z	Building Dept.
14.	Jordan Schnette	Glen Carbon PD	Police Operations Asst.
15.	DAVID McCLINTOCK	Alton Community School Dist	Facility Director
16.	Mike Sutton	Highland CUSD No. 5	Supt.

Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

March 26, 2024

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	Jay Kleven	City of Troy	City Administrator
2.	Nick Koeller	Madison County Farm Bureau	Board Member
3.	Carnie Farrell	Eville Township	Hwy Administrator
4.	Adam Thiel	TSA Madison County Coord. EDS	Youth Dir
5.	Bob Neubauer	ROXANA FIRE DEPT	CHIEF
6.	GREG SCHUETTE	MAD. CO. HWY DEPT	ASST. CO. ENGR.
7.	John Barlot	Collinsville	Fire Chief
8.	Brad Rollins	William M. Bedell arc	Executive Director
9.	SCOTT SLEMER	GLEN CARBON	PUBLIC WORKS DIRECTOR
10.	DAVID LAMBIE	NWRT	TERMINAL MANAGER
11.	Tina Davis	Red Cross	Disaster Program Mgr.
12.	Nick Koeller	Fosterburg Fire Prot Dist	Captain
13.	Don Grimm	Hamel FIRE Dist	-
14.	Walter Blotevogel	Worden Fire Prot. Dist.	Coordinator
15.	Duane Tack	Alhambra Fire Prot. Dist.	trustee
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Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

March 26, 2024

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	Blake Cosley	Kinder Morgan	EHS Specialist
2.	DAVID Goodwin	SIUE Police	Chief of police
3.	Paul Lege	SIUE EHS/Facilities	EHS Mgr
4.	Joe Sinicola	Illinois Dept. Nat. Res.	V.P
5.	Richard Schaefer	Village of St Jacob	MAYOR
6.	Wade Stahlhut	Upper River FD	Fire Chief
7.	Chamaine Stelle	Red Cross	Disaster Program Specialist
8.	STEVEN BRENDEL	VILLAGE OF GRANITE CITY	MAYOR
9.	Chris Staats	HIGHLAND F.D.	Chief
10.	Eric Brandmeyer	Anderson Hospital	Director, EMS/Emr Preps
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Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

March 26, 2024

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	Bryan Rutz	Salvie Township	Highway Commissioner
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Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

March 26, 2024

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	Joe Jureau	Venice	Engineers
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Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

July 30, 2024

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	Callie Smith	AEC	Environmental Analyst
2.	Andrea Bestwick-Campbell	American Environmental	EMS Manager
3.	Chad Jureen	Pontoon Beach / Venice / Madison	City Engineer
4.	GREG SCHUETTE	MAD. CO. HWY DEPT.	ASST. CO. ENGINEER
5.	Jacob Sanders	South Roxana Fire Protection Dist.	Captain
6.	MATT Heathcock	wood River township	
7.	JOHN UHL	VILLAGE OF GODFREY	VILLAGE ENGINEER TECHNICIAN
8.	Tim Quibley	EAST ALTON FIRE DEPT	FIRE CHIEF
9.	KEVIN WILLIAMS	WOOD RIVER D+LD	EXEC. DIRECTOR
10.	Danny Pizarelle	Edwardsville township	
11.	Mike Parsons	City of Alton	Public Works Director
12.	BRAD RAISIN	Lewis + Clark	Dir public SAFETY
13.	Pam Kraigher	New Douglas / New Douglas Fire Protection	Trustee / Representative
14.	JASON WHITAKER	Glen Carbon FPD	Fire Chief
15.	RICHARD SCHIEFER	ST. JACOB	MAYOR
16.	Nick Timmons	St. Jacob	Public Works Supervisor

Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

July 30, 2024

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	Duane Tate	Village of Alhambra	Supt.
2.	Fred Patterson	EMA Director	—
3.	Gabrielle Riggs	Mad Co EMA	Planner
4.	Austin Sandel	Olive Five, Village of Livingston	Captain, Public Safety Committee
5.	Ronald Root	ST. MARYS ALTON	MAintenance
6.	ADAM WALDEN	MAD. CO. HIGHWAY	CO. ENGINEER
7.	NATHAN LARSON	MAD. CO. HIGHWAY	TOWNSHIP ENGINEER
8.	Rocky McDonald	Wood River Township	Foreman
9.	RICH BERAN	VILLAGE OF GODFREY	VILLAGE ENGINEER
10.	Chris Straub	City of Highland	Fire Chief
11.	John BALOT	City of Collinsville	Fire Chief / EM Director
12.	Darren Davis	Troy Fire Protection District	Chief
13.	DAVID McCLINTOCK	Alton School Dist #11	Facility Director
14.	NATE KAMP	CITY OF WOOD RIVER	DEPUTY CHIEF - FD
15.	Shane Fulton	village of maryville	Building & Zoning
16.	DOUG DANKENBRINK	VILLAGE OF MARYVILLE	FIRE DEPT

Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

July 30, 2024

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	Kathy Trucano-Hoelscher	Collinsville Township	Highway Commissioner
2.	AARON D. ROGERS	ALTON MEMORIAL HOSP.	Mgr ER
3.	DUANE L. AMISTADI	WOOD RIVER-HARTFORD SD #15	Buildings/Grounds
4.	Kevin Rutz	Leef Twp	Road Comm
5.	Rob Hancock	City of Troy	Public Works Director
6.	Tim Dyer	SRFD + Roxana School Dist	Fire Chief / Dir. Bldgs + Grnds
7.	Barbara Wheat	Worden	Chief
8.	Blake Marth	Marquette Catholic High School	Dean of Students
9.	BOB NEWSOME	VILLAGE OF ROXANA	FIRE CHIEF
10.	WADE STAHLHUT	WOOD RIVER FD	~~FIRE CHIEF~~
11.	Justin Rottmann	Grantfork PD	Chief of Police
12.	Justin Roelle	MESD	~~MESD~~ Director of Ops
13.	Eric Brandmeyer	Anderson Hosp.	Director, EMS/EmPrep
14.	JASON S MOOR	Village of Marine	Water
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Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

July 30, 2024

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	Ned Miller	Glen Carbon	Lieutenant
2.	Marc Holt	Madison County	Stormwater coordinator
3.	Philip Shell	America's Central Port	Senior Project Manager
4.	Robert Morgan	City of Edwardsville Fire Dept.	Asst. Fire Chief
5.	Kimberly Willis	Madison County ROE	Office Manager
6.	Dennis STANFORD	OSF SAINT	EMS COORDINATOR
7.	MATT DOGGETT	SELF	
8.	MATT FISCHER	ALTON FIRE DEPT.	DEPUTY CHIEF
9.	Paul Lega	SIUE	EHS Mgr
10.	JUSTIN LIEBERMAN	SIUE	DEPUTY CHIEF POLICE
11.	Michele Milton	Madison Co health Dept	Emergency preparedness Director
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Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

January 14, 2025

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	KEN RUNKLE	AEC	RISK ASSESSOR
2.	Duane Teke	Village of Alhambra	Supt.
3.	Chris Straub	City of Highland	Fire Chief
4.	Michael Perlak	Metro Sanitary Dist.	
5.	Blake Marth	Marquette Catholic High School	Dean of Students
6.	Tim Quigley	EASY Alton Fire Dept	Fire Chief
7.	Nick Timmons	Village of St Jacob	Superintendent Public Works
8.	Darren Davis	Troy Fire Protection District	Chief
9.	RICHARD SCHIEFER	VILLAGE OF ST. JACOB	MAYOR
10.	DOUG DANKENBRINK	MARYVILLE FD	FIRE CHIEF
11.	Tonya Flannery	Village Admin / Maryville	Village Admin.
12.	Josh Ferry	Edwardsville School District	Dir. Bldg. Grounds
13.	Mary Rivera	St. Mary's School - Alton	Principal
14.	Gabrielle Riggs	Madison County EMA	Planner
15.	John Barbot	Collinsville	Fire Chief
16.	Kathy Trucano-Haelsdo	Collinsville Township	Commissioner

Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

January 14, 2025

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	Callie Smith	AEC	Environmental Analyst
2.	JOHN UHL	VILLAGE OF GODFREY	ENG. TECH
3.	Jared Runyan	IEMA - OHS	Disaster Services Planner
4.	Fred Patterson	EMA - Director	—
5.	KEVIN WILLIAMS	WOOD RIVER DRAINAGE + LEVEE	EX. DIRECTOR
6.	STEVEN BRENDEL	VILLAGE OF GRANTFORK	MAYOR
7.	DENNIS STANFORD	OSF SAINT	EMS COORDINATOR
8.	George Korenyi	EMA	Logistics Coordinator
9.	Rob Hancock	City of Troy	Public Works Dir.
10.	Eric Brandmeyer	Anderson Hospital	Em Prep.
11.	Sean Grey	The Salvation Army	Captain
12.	Shane Fulton	village of Maryville	B+Z
13.	Robert Morgan	City of Edwardsville FD.	~~A~~ Deputy Chief/fire marshal
14.	Chad Juneau	Nameoki Twp / Pontoon Beach / Madison Venice	Juneau Associates
15.	JASON WHITAKER	Glen Carbon FPD	Fire Chief
16.	Carrie Farrell a Danny Picarella	Eville Township	Administrator and Highway Com.

Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

January 14, 2025

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	ADAM WALDEN	MAD CO HIGHWAY	CO. ENGINEER
2.	RICH BERAN	VILLAGE OF GODFREY	VILLAGE ENGINEER
3.	DAVID McCLintock	Alton CUSD #11	Facility Director
4.	Jason S Moore	Village of Marine	W&S
5.	Marc Hahlt	Mad Co B&Z	Stormwater Coordinator
6.	MARK FOLEY	Collinsville School Dist	Security
7.	Chris Wasser	Troy P.D	Police
8.	Andy Evans	Troy P.D.	Police
9.	DAVID Goodwin	SIUE PD	Police
10.	ROGER POWLESS	AMERICAS CENTRAL PORT	CONTRACT ADMIN
11.	Jeff Blind	Glen Carbon P.D.	Police
12.	Don Grimm	Hamel Village	Public works
13.	Kimberly Willis	Regional Office of Education	Office Manager
14.	Dale Hendricks	Olive Fire Dist, Livingston	Asst. Chief
15.	Steve Stuart	Edw. School	Executive Director
16.			

Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

January 14, 2025

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	Paul Legh	SIUE	EHS Manager
2.	Daniel Lipe	Troy Police	Lieutenant
3.	NATE KAMP	WOOD RIVER FD	DEPUTY CHIEF
4.	JESSE JEMISON	ALTON FIRE	CHIEF
5.	Tricia Blackwood	ROE 41 Bethalto Edwardsville	Regional Asst Sup
6.	Adam Thiel	The Salvation Army Madison City Corps.	Youth Dir.
7.	MATT FISCHER	ALTON FIRE	DEPUTY CHIEF
8.	Don Grimm	Village of Worden	Public Works
9.	Todd Richey	Granite City EMA	EMA Coordinator
10.	Michele Milton	Madison Co. Health Dept.	Emerg. Prep. Director
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Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

June 25, 2025

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	Fred Patterson	MC EMA	Director
2.	KEVIN WILLIAMS	WOOD RIVER D+LD	EXEC. DIRECTOR
3.	JOHN UHL	VILLAGE OF GODFREY	ENG. TECH
4.	Shane Fulton	Village of Maryville	B+Z Director
5.	JEFF ALFORD	Village of moRine	Village Employee
6.	RICH BOLAN	VILLAGE OF GODFREY	VILLAGE ENGINEER
7.	Philip Shell	America's Central Port	Senior Project Manager
8.	Kathy Trucano-Haelsch	Collinsville Twsp	Highway Commissioner
9.	CHRIS STRAUB	City of HIGHLAND	Fire Chief
10.	Kevin J Reis	City of Collinsville FD	D/C ops.
11.	Walter Blotevogel	Village of Worden Worden	Village Engineer
12.	DAVID GOODWIN	Fire Protection Dist. SIUE Police Dept	chief of Police
13.	Tricia Blackard	ROE 41 + all school districts	Regional Asst Supt
14.	Danny Picarello	TWP - Edwardsville	Road Commissioner
15.	Josh Ferry	ECUSD #7	Dir. Buildings + Grounds
16.	Rob Hancock	City of Troy	Public Works Director

Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

June 25, 2025

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	Ned Miller	Glen Carbon PD	Lieutenant
2.	Darren Davis	Troy Fire	Chief
3.	Marc Hohlt	Madison County BPZ	stormwater coordinator
4.	Paul Leyh	Stue	EHS
5.	RICHARD SCHIEFER	VILLAGE ST. JACOB	MAYOR
6.	MATT FISCHER	ALTON FIRE	DEP. CHIEF
7.	~~JOE~~ STAUDACHER	WOOD RIVER FD	~~FIRE CHIEF~~
8.	Robert Morgan	Edwardsville FD	Dept. Fire Chief
9.	Justin Rothwell	Granite PD	Chief
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Attendance Sheet

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee Meeting

June 25, 2025

	Name (Please Print)	Representing (Jurisdiction/Organization)	Title
1.	Gabrielle Riggs	Madison County EMA	Planner
2.	Duane Taky	village of Alhambra	Supt.
3.	PATTY TAKE	Public	Public
4.	Daniel Lipe	Troy Police	Lieutenant
5.	DAVID McClintock	Alton School Dist #11	Facility Director
6.	Andrea Campbell	AEC, LLC	EMS Manager
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APPENDIX B

Meeting Minutes

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee

March 26, 2024
10 a.m.
Madison County EOC
101 E. Edwardsville Road, Wood River

Committee Members

Alhambra, Village of
Alhambra Community FPD
Alton CUSD #11
Alton, City of
American Central Port
Anderson Hospital
Collinsville, City of
Collinsville Township
Collinsville CUSD #10
East Alton, Village of
Edwardsville, City of
Edwardsville Township
Fort Russell Township
Farm Bureau
Fosterburg FPD
Glen Carbon FPD
Glen Carbon, City of
Godfrey, Village of
Granite City, City of
Grantfork, Village of
Hamel, Village of
Hamel Community FPD
Highland CUSD #5
Highland, City of
HWRT Oil Company LLC
Juneau Associates, Inc.
Kinder Morgan
Leef Township
Madison County
- EMA
- GIS
- Health Department
- Highway Department

Madison County *(cont.)*
Madison County ROE 41
Marquette Catholic HS – Alton
Maryville, Village of
Metro East Sanitary District
OSF Saint Anthony's Health Center
Roxana, Village of
Roxana CUSD #1
Red Cross
Saline Township
Salvation Army
SIUE
South Roxana FPD
St. Jacob, Village of
St. Mary's Catholic School – Alton
Troy, City of
Troy FPD
Venice, City of
William BeDell ARC
Williamson, Village of
Wood River, City of
Wood River D&LD
Wood River Township
Worden, Village of
Worden Fire Department
American Environmental Corp.

Welcome and Introductions

Gabrielle Riggs, Madison County Emergency Management Agency Emergency Preparedness Planner, welcomed attendees. She indicated that the purpose of this

Committee is to update the Madison County All Hazards Mitigation Plan. She introduced Ken Runkle and Callie Smith of American Environmental Corporation (AEC).

Handout materials were distributed to each member. A link to a citizen questionnaire was provided to potential members via email as well. The questionnaire will help gauge residents and committee member understanding of the natural hazards that impact the County and also identifies communication preferences.

Ken began the meeting by providing background information on the planning grant and the planning process. Madison County EMA applied for and received a planning grant from FEMA to update the County's hazard mitigation plan. This grant is administered through the Illinois Emergency Management Agency Office of Homeland Security (IEMA-OHS) and pays for 90% of the planning cost. The remaining 10% will be met through in-kind services. The goal of the grant is to obtain a FEMA-approved hazard mitigation plan. The process generally takes about 16 to 18 months from start to finish.

What is Mitigation?

Ken explained that for the purpose of this process, mitigation is any sustained action that reduces the long-term risk to people and property from natural and man-made hazards and their impacts. Sustained actions can include projects and activities such as building a community safe room or establishing warming and cooling centers. Mitigation is one of the phases of emergency management and is an important component in creating hazard-resistant communities.

What is an All Hazards Mitigation Plan?

Ken then explained that an All Hazards Mitigation Plan details the natural and man-made hazard events that have previously impacted the County and identifies activities and projects that reduce the risk to people and property from these hazards before an event occurs. A hazard mitigation plan is different from the County's Emergency Operations Plan/ Emergency Response Plan (EOP/ERP) because it identifies actions that can be taken before a disaster strikes whereas the EOP/ERP identifies how the County will respond during and immediately after an event occurs.

The natural and man-made hazards that will be included in the Plan are severe summer storms (including thunderstorms with damaging winds, hail, lightning, and heavy rain events); severe winter storms (including ice and snowstorms); floods (both flash flood and riverine floods); tornadoes; excessive heat; extreme cold; drought;; earthquakes; mine subsidence; landslides; levee failures; dam failures; transportation, generation, and storage of hazardous substances; hazardous materials incidents; waste disposal; and remediation activities.

Why Update an All Hazards Mitigation Plan?

Since the early 1990s damages caused by weather extremes have risen substantially. In 2023 the U.S. experienced $93.1 billion in severe storm damages from 28 severe weather and natural hazard events. 2023 shattered the record set in 2020 for billion dollar events, with a new record of 28. In addition, the losses experienced in 2023 were the among the top 10 years with highest total losses recorded since records started being kept in 1980.

The top two years are 2017 (Harvey, Irma, Maria, and California Wildfires) and 2005 (Katrina, Rita, & Wilma). In the last decade, the U.S. has experienced the top three years with the highest total number of billion-dollar events (2023, 2021, 2020) and two of the top three years with the highest total losses ever recorded (2022 & 2017). Consequently, the Federal Emergency Management Agency (FEMA) continues to encourage counties throughout the U.S. to prepare and develop hazard mitigation plans because what they've found is that for every dollar spent on mitigation, $6 dollars can be reaped in savings.

Updating this plan provides several major benefits:

1. Access to federal mitigation assistance funds. Specific projects and activities will be developed and updated through the planning process to help each participating jurisdiction reduce damages. By including these actions in this Plan, the participating jurisdictions will either remain or become eligible to receive state and federal funds to implement the actions.
2. Increased awareness of the impacts associated with natural hazards. Verifiable information about the natural hazards that occur in Madison County will be gathered to help local officials make decisions about how to better protect citizens and property from storm damages.

The Planning Process

The goal of the Committee meetings is to update the Plan to meet state and federal requirements so that it can be approved by the IEMA and FEMA. The Planning Committee is an integral part of the planning process and ensures that the Plan is tailored to the needs of the County and participating jurisdictions.

A four meeting process has been developed to achieve this goal. Specific activities for the Committee meetings include:

1st Committee meeting	Orientation to the Planning Process Required Information Needed to Participate
2nd Committee meeting	Discuss the Risk Assessment Approve Mission Statement, Goals, and Prioritization Methodology Participants Return Required Forms Begin discussing Mitigation Projects and Activities
3rd Committee meeting	Review Vulnerability Analysis Finish discussing Mitigation Projects and Activities Committee discusses approval/adoption and maintenance of the plan
4th Committee meeting (Public Forum)	Present the Plan for public review Committee helps answer questions from the public

Jurisdictions who wish to be part of the Plan must meet certain participation requirements that include:

- Participating in the planning meetings and public forum;
- Completing required forms;
- Coordinating with their constituents and the public; and
- Adopting the Plan once it's completed.

Information Needed from the Committee

As part of the Plan's update, Ken indicated that there is information that will be needed from each participating jurisdiction. The information provided will be used to meet FEMA plan requirements. He then talked about each of the forms that must be completed at the beginning of the planning process. These Include:

Critical Facilities. Completed lists of Critical Facilities will be used to identify facilities vulnerable to natural hazards and will be provided to IEMA-OHS and FEMA as a separate supplement. Copies of the Plan made available to the public will not include these lists for security reasons.

Capability Assessment: Each jurisdiction has a unique set of capabilities and resources available to accomplish hazard mitigation and reduce long-term vulnerabilities to hazard events. As part of the update of the Plan, the existing capabilities of each jurisdiction need to be identified and described.

Shelter Surveys. Identifies locations designated as severe weather shelters within each jurisdiction including warming centers, cooling centers and community safe rooms.

Drinking Water Supply Worksheet: Information on the drinking water supplies that serve the participating communities needs to be identified to assist in assessing drought vulnerability.

Changes in Land Use and Development Worksheet: Information on the changes in development that have occurred in the previous Plan participants needs to be identified. This could be recent development, potential development, or changes in local policies, codes, etc.

Roadway Overtopping Survey: Information on areas prone to flooding needs to be identified to assist in assessing flood and heavy rain vulnerability, especially in rural areas.

Ken and Callie passed out the forms and fielded questions. Ken asked participants to complete the forms and return them by the next meeting if possible and to let him know if they had any questions.

Severe Weather Events

Ken told the Committee that, while AEC will review multiple data sources, including NOAA, NWS, and state and federal databases, these sources don't always include every event nor do they always include damage information, especially dollar amounts. In many cases, individuals at the local level are our best resource for this kind of information.

He then asked Committee members to share their memories of hazardous events that have occurred in the County including any damages to critical infrastructure and facilities.

Hazard events related include:

- ❖ Hail Storm in Leef Township and Edwardsville – golf ball sized (March 14, 2024)
- ❖ Tornado hits Amazon Building in Edwardsville (December 2021)
- ❖ Oil Spill on Bond/Madison County Line got out of the berm and spread into ditches and creek in Leef Township, controlled before reaching Highland Lake (July 2020)

Ken asked participants to identify any hazard events that have impacted their jurisdiction by completing the form titled, "Hazard Event Questionnaire". The information provided will help supplement the information included in the risk assessment.

He also asked Committee members to please provide any storm damage photos they would be willing to share for inclusion in the Plan.

Community Participation

Ken stressed the importance of attending each committee meeting and indicated that member participation helps the County meet its 10% match for this grant in addition to assuring that member jurisdictions are eligible for IEMA-OHS/FEMA funds. He indicated that tag-teaming and designating substitute representatives is permissible when other obligations arise. He also pointed out that a designated substitute representative does not have be an official or employee of the jurisdiction.

Ken requested that each jurisdiction consider sharing meeting information with their boards, councils, etc. at regularly scheduled meetings and consider posting the press release or adding a calendar item to their web pages. He also asked jurisdictions who are on Facebook to consider posting about the Plan on their pages as well.

Ken reminded the committee that the link to a Citizen Questionnaire was provided to potential members via email prior to the meeting. The questionnaire will help gauge residents and committee member understanding of the natural hazards that impact the County and also identifies communication preferences. He indicated that another opportunity to include the public in the process is to post the link to the Citizen Questionnaire on their web pages or Facebook pages. The more individuals who complete the survey, the better our understanding will be of the public's perception of the hazards that impact the County.

He also asked the participants to consider posting or making available at their offices the "Frequently Asked Questions" document in their meeting packet. It provides a quick summary of what the Plan is and why it's important to participate.

Asset Vulnerability Survey

As part of the Plan development, Ken indicated that vulnerable community assets need to be identified for the participating jurisdictions. FEMA requires that the Plan include a summary, such as a list of key issues or problem statements, which describes the effects the hazards have on each participating jurisdiction and their assets. Assets include people, structures (including critical facilities, infrastructure, and community lifelines), systems (networks and capabilities such as electrical and communications grids), and natural, historic, and cultural resources. He asked Committee members to complete a

survey distributed to help identify each community's vulnerable assets and the hazards to which they are vulnerable. This information will be used in the vulnerability analysis.

Status of Existing Projects

Callie distributed "Status of Existing Mitigation Actions" forms to each of the previously participating jurisdictions detailing the mitigation projects and activities included in the 2020 Plan. Ken explained that as part of the update process the status of these projects needs to be determined. He described how the form should be completed so that this information can be included in the updated Plan.

Mission Statement & Goals

Copies of the previous mission statement and mitigation goals were distributed in the meeting packet. Committee Members were asked to review these prior to the next meeting. The mitigation goals describe the objectives or end results the Committee would like to accomplish in terms of hazard and loss reduction/prevention. Every project included in the Plan should be aimed at one or more of the goals identified by this Committee. Specific goals related to each jurisdiction can be added to this list as well.

What Happens Next?

The risk assessment will be the main topic of the next committee meeting. The second meeting of the Committee was scheduled for:

Tuesday, July 30, 2024
EOC/County Board Room
County Building
201 W. Washington St., Clinton
10 A.M.

Ken asked Committee members to please review the "Tasks to be Completed" handout before the next meeting and indicated that AECs contact information could be found on the last page of the meeting handout if any questions come up. With no further questions the meeting was adjourned.

Meeting Minutes

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee

July 30, 2024
10 a.m.
Madison County EOC
101 E. Edwardsville Road, Wood River

Committee Members

Alhambra, Village of
Alton, City of
Alton CUSD #11
Alton Memorial Hospital
America's Central Port
Anderson Hospital
Collinsville, City of
Collinsville Township
East Alton, Village of
Edwardsville, City of
Edwardsville Township
Glen Carbon FPD
Glen Carbon, Village of
Godfrey, Village of
Grantfork, Village of
Highland, City of
Leef Township
Lewis & Clark College
Livingston, Village of
Madison County
- EMA
- Health Department
- Highway Department
- Building & Zoning

Madison County ROE 41
Madison, City of
Marine, Village of
Marquette Catholic HS
Maryville, Village of
Metro East Sanitary District
New Douglas, Village of
New Douglas Community FPD
Olive Fire District
OSF Saint Anthony's Health Center
Pontoon Beach, Village of
Roxana, Village of
Roxana CUSD #1
SIUE
South Roxana FPD
St. Jacob, Village of
St. Mary's Catholic School
Troy, City of
Troy FPD
Venice, City of
Wood River, City of
Wood River D&LD
Wood River Township
Wood River-Hartford CUSD #15
Worden, Village of
American Environmental Corp.

<u>Welcome and Introductions</u>

Fred Patterson, Madison County EMA Director, welcomed attendees and introduced Andrea Campbell and Callie Smith of American Environmental Corporation (AEC). Andrea opened the meeting by providing a brief recap to reorient Committee Members as to what has been accomplished to date. Callie distributed handout materials to each committee member. Before beginning the risk assessment presentation, Andrea asked the participating jurisdictions to submit their completed "Critical Facilities", "Capability Assessments", "Drinking Water Worksheets", "Shelter Surveys", and any other completed forms if they hadn't done so already.

Risk Assessment

Andrea shared that there have been sixteen emergency and major federal disaster declarations in Madison County since 1969, with one major disaster declaration and two emergency declarations occurring since the last Plan update. Additionally, the County has been included in 11 state disaster proclamations since 2010. A total of 1,730 verified natural hazard events have been documented over the last 20 to 70 years in Madison County, with 166 events identified since 2019. A minimum of $168.2 million in property damages have resulted from just 119 of these documented natural hazard events. In addition, $46.5 million in insured crop damages were recorded for just 5 events. A minimum of 13 fatalities and 157 injuries were recorded for 29 of the documented natural hazard events; this total does not include IDOT roadway crash data figures, which increase the number of injuries and fatalities.

The damage amounts are actually much higher based on several facts:

1.) damage descriptions for many of the floods, tornadoes and severe storm events did not include dollar amounts;
2.) damages to roads from heat and freeze/thaws conditions were not included; and
3.) crop damage figures were unavailable for a majority of the events.

The frequency, magnitude, and property damages for each category of natural hazard for the County were then described.

Severe Storms

A total of 765 severe storm events have occurred in the County. Four major federal disaster declarations included severe storms, as well as two state disaster proclamations for the County. Approximately $5 million in damages has resulted from 66 events. At least 6 injuries can be attributed to three thunderstorm events and one lightning strike event. IDOT's roadway crash data indicates that from 2018 to 2022 about 15.5% of all vehicular crashes in the County occurred due to wet pavement conditions, resulting in 1,392 injuries and 26 fatalities.

The highest recorded wind speed in the County, not associated with a tornado, is 81 knots (93 mph) recorded at Highland on March 27, 2021. The highest recorded wind speed was previously 80 knots (92 mph), measured on June 14, 1998 at Alton & Godfrey. The largest hail recorded in the County is 3 inches (tea-cup-sized) on November 5, 2017, recorded at Collinsville & Venice. The largest hail recorded since the 2020 Plan was completed was 1.5 inches (ping pong ball- sized) on March 27, 2020, at Wood River, Roxana, Edwardsville, Glen Carbon, & Highland.

Excessive Heat

Additional resources were reviewed to fill historic data gaps, which led to the identification of 163 recorded excessive heat events reported in the County since 1994. There have been 23 verified excessive heat events since 2019. Twelve fatalities and 88 injuries have been recorded for 10 of these events, which constitutes over half of all the injuries and fatalities in the County.

The hottest temperature recorded in the County was 116°F at Melvin Price L&D COOP Station on July 10, 1946. Since 2020, the hottest temperature recorded in the County was 100°F at the Melvin Price L&D COOP Station on August 25 and 26, 2023.

Floods

With the review of additional resources, 129 verified flood events have occurred in the County. Seventy verified general flood events have occurred since 1973, and 59 flash flood events have occurred since 1993. Ten major federal disaster declarations and two state disaster proclamations for the County are related to flooding. At least $50.4 million in damages resulted from just 14 flood events, which is approximately 30% of all property damage recorded in the county. Additionally, $95,000 in crop damage was recorded for just 2 flash flood events. No injuries or fatalities were reported as the result of flood events.

Severe Winter Storms

There have been at least 95 verified events involving severe winter storms (snow and/or ice) since 1950, 4 of these have occurred since 2019. One major federal disaster declaration included a severe winter storm (2006), and there have been four state disaster proclamations that included severe winter storms.

A verified total of $5.1 million in damages and emergency protective measures resulted from four of the severe winter/ice storm events. Two injuries and four fatalities were reported as the result just two of these events. IDOT's roadway crash data indicates that from 2018 to 2022 about 4.7% of all vehicular crashes in the County occurred due to ice and snow-covered roadways, resulting in three fatalities and 247 injuries.

At least 10 severe winter storms have occurred in every decade since 1960. In this decade, 4 severe winter storms have already taken place.

The record maximum 24-hour snowfall in the County is 14.8 inches, which occurred at the Edwardsville COOP Station on November 5 and 6, 1951. Since the 2020 Plan was completed, the maximum 24-hour snowfall in the County was 5.6 inches at the Edwardsville COOP station on February 2, 2022.

Extreme Cold

Additional resources were reviewed to fill historic data gaps, which led to the identification of 37 recorded extreme cold events reported in the County since 1994. There have been 2 verified extreme cold events since 2019. Two state disaster proclamation included extreme cold (2014 & 2019). While no damages were recorded for any of the events, one fatality was reported as the result of an event in December, 2000.

The coldest temperature recorded in the County was -16°F at the Melvin Price L&D COOP Station on 6 separate dates (January 10 & 11, 1982, December 25 & 26, 1983, & December 22 & 23, 1989). Since 2020, the coldest temperature recorded in the County was -4°F at the Melvin Price L&D COOP Station on February 17, 2021, and again on December 23 & 24, 2022.

Tornadoes

Since 1950, 58 tornadoes have been verified in the County, with 3 occurring since 2019. Two emergency & major federal disaster declarations in the County include

tornadoes (1983 & 2021), as well as one state disaster proclamation (2011). At least $72.9 million in property damages has resulted from 33 of these tornadoes, which is over 40% of all the property damage recorded in the County. Six fatalities and 61 injuries have been recorded as a result of 12 separate tornado events comprising a quarter of all the fatalities and almost 40% if all the injuries recorded in the County.

The highest recorded F-Scale rating for a tornado in the County was an F4, which occurred on February 10, 1959, and again on April 3, 1981. The longest tornado in the county was an F2 from June 30, 1960 which traveled a distance of 16.9 miles in the County. The widest tornado was an F3 from May 2, 1983 which was 1,000 yards (a little over half a mile) wide.

Drought

Five major droughts have occurred during the last four decades – 1983, 1988, 2005, 2011, and 2012. No new droughts have occurred in the County since 2019. There has been at least one drought per decade, except for the 1990s when no substantial droughts were recorded. The County was designated a Primary National Disaster Area for two of these events (2005 and 2012). Three of these droughts caused approximately $46.4 million in *insured crop damage,* which is virtually all of the crop damage recorded for the County.

Since comprehensive crop damage figures aren't available for some of the major events, corn and soybean yield reductions associated with drought years were reviewed to determine severity. Following each declared drought, crop yield reductions were generally experienced, some substantial. Corn yield reductions were most severe for the 2012 & 1983 droughts, when there were yield reductions of 53.8% and 52.6%, respectively. Soybean yield reductions were most severe in the 1983 drought, when yields were down by 36.6%.

Earthquakes

In the previous 200 years, 9 earthquakes have originated in the County, with one new earthquake having occurred since 2019. A 2.3 magnitude earthquake originated approximately 3 miles southwest of Hamel on March 25, 2022. Multiple earthquakes have originated in adjacent counties over the last 200 years, with the most intense being in the 4.0 to 4.9 magnitude range (Bond, Clinton, & St. Clair). No damages, injuries, or fatalities have been reported in Madison County for any of these earthquakes. There are no known fault zones or geologic structures within the County, but there are three geologic structures in the immediate region: the Lincoln Fold, the Cap au Gres faulted flexure, and the Waterloo-Dupo anticline.

Mine Subsidence

There are 206 documented underground coal mines located in the County according to the Illinois State Geological Survey's Directory of Coal Mines. According to the Illinois Mine Subsidence Insurance Fund, between 1980 and 2023 there have been 453 confirmed mine subsidence claims, with $34.5 million in damages/reimbursements to insurance companies for mine subsidence in the County, accounting for over 20% of all property damage in the County.

According to the Illinois State Geological Survey, there are 58,522 acres (12.7% of the land area) and 33,608 housing units (31.0% of the total housing units) in Madison

County are located over or adjacent to mapped mines and land that could be affected if the mine boundaries are inaccurate or uncertain.

Landslides

There have been nine documented landslide events in the County since 2009, with two occurring since 2019. Approximately $137,133 in damages were recorded from two separate events in Edwardsville in 2017 & 2019. No injuries or fatalities were recorded as a result any landslide.

Levees

The US Army Corps of Engineers National Levee Database identified five levees of significance in Madison County: Chouteau Island / Chain of Rocks West, Metro East Sanitary District / Chain of Rocks East, Wood River D&LD East & West System, Wood River D&LD Lower System, and Wood River D&LD Upper System. Together, these five levee systems protect approximately 57,392 structures, 143,028 individuals within the leveed area, and $11.6 billion in property. There have been four documented levee failures since 1993, all associated with the Chouteau Island levee system. There have been no levee failures since 2019.

Dams

There are 65 classified dams in the County according to the US Army Corps of Engineers' National Inventory of Dams. Nine dams are publicly-owned, with 6 owned by municipalities. The remaining 56 dams are privately-owned There are 12 "High" hazard dams, 27 dams with a hazard classification of "Significant", 25 classified as "Low", and one dam with an "Undetermined" classification. There have not been any known classified dam failures recorded in the County according to the National Performance of Dams Inventory.

Man-Made Hazards Risk Assessment

Andrea informed the Committee that while the focus of this planning effort is directed at natural hazards, FEMA allows a small portion of the planning process to be devoted to an overview of selected man-made hazards.

Although this overview does not have the same depth as the assessment of natural hazards, it provides useful information to place various man-made hazards in perspective. The man-made hazard risk assessment focused on the following categories of:

- generation, storage/handling, and transportation of hazardous substances;
- waste disposal;
- hazardous materials (hazmat) incidents; and
- waste remediation.

Hazardous substances broadly include flammable, explosive, biological, chemical, or physical material that has the potential to harm public health or the environment. For the purposes of these Plans, the term includes both hazardous product and hazardous waste.

Generation, Storage/Handling, & Transportation

In 2022, there were 25 facilities in the County that generated reportable quantities of hazardous substances according to the USEPA. Based on records obtained from IEMA-OHS's Tier II database, there were 239 stationary facilities within the County that stored

and/or handled hazardous substances. Sixty-eight of these facilities stored and/or handled chemicals identified as “Extremely Hazardous Substances”. This is down from the 80 EHS facilities identified in the previous Plan update.

Waste Disposal

There is one active commercial solid (household) waste landfills operating in the County, Roxana Landfill LLC. There are no facilities within the County permitted to handle Potentially Infectious Medical Waste and no commercial off-site hazardous waste treatment or disposal facilities.

Hazardous Materials (Hazmat) Incidents

A hazardous materials (hazmat) incident refers to any accident involving the release of hazardous substances. Incidents can take place at fixed facilities or as they are being transported. In 2019 and 2023 there were 86 hazmat incidents reported to IEMA-OHS in the County. This is down from thew 103 hazmat incidents identified in the previous plan update for 2015 and 2019. While 70 incidents occurred at fixed facilities, 16 (around 18.6%) occurred during transport. Of the 16 transportation incidents, eleven were roadway incidents, four were rail incidents, and one was a pipeline incident.

Waste Remediation

Waste remediation in Illinois is primarily conducted through three programs: the federal Superfund Program (for sites posing the largest threat to public health and the environment), the Illinois Site Remediation Program (SRP), and the Illinois Leaking Underground Storage Tank (LUST) Program.

Superfund: There are 3 active Superfund sites in the County.

Illinois SRP: There are 90 SRP sites located in the County. This is up from the previous Plan when there were 76 SRP sites. Fifty-six of the sites have received “No Further Remediation” (NFR) or Section 4(y) letters.

Illinois LUST: There are 689 LUST sites located in the County. This is up from the previous Plan when there were 670 LUST sites. Approximately 75% (520 of 689) of these sites have received NFR, Non-Lust Determination or Section 4(y) letters or remediation is virtually complete.

Risk Priority Index Exercise

Following the risk assessment, Andrea led the Committee through a Risk Priority Index (RPI) exercise. Andrea explained that the RPI is a quantitative means of providing guidance for ranking the hazards that have the potential to impact the County. This ranking can assist participants in determining which hazards present the highest risks and therefore which ones to focus on when formulating mitigation projects and activities. Each hazard is scored on three categories: frequency, impacts on life and health and impacts on property and infrastructure based on a scoring system provided. Andrea walked the committee through the scoring system using excessive heat as an example and then provided time for the Committee to fill out the PRI form during the meeting. The results will be compiled, and the findings will be presented at the next meeting.

Mission Statement & Goals

Andrea asked Committee members to review the draft mission statement and updated mitigation goals provided in the meeting materials. Both of these are required elements of the Plan. As part of the Plan update process, both items need to be reviewed and re-evaluated. After reviewing the draft mission statement, the Committee approved it without revision.

Next Andrea discussed the mitigation goals, which are intended to reduce long-term vulnerabilities to natural hazards. Each project included in the updated Plan should be aimed at one or more of the goals developed by the committee. The goals were reviewed, and no revisions were made to the wording. The finalized mission statement and goals will be added to the Plan update.

Mitigation Actions Prioritization Methodology

Andrea shared that the Mitigation Actions Prioritization Methodology outlines the approach used to classify each mitigation action identified by the participating jurisdictions and is a FEMA-required element of the Plan. As part of the update process, the methodology used in the 2019 Plan update needs to be reviewed and evaluated to determine if revisions are needed. She explained that the methodology is based on two key factors:

1) Frequency of hazard – severe storms occur more frequently than earthquakes.
2) Degree of mitigation – some projects will significantly reduce damages while other projects only have the potential to reduce damages.

This methodology helps objectively identify which projects and activities have a greater likelihood to significantly reduce the long-term vulnerabilities associated with the most frequently-occurring hazards. After reviewing the updated methodology, the Committee determined that no changes needed to be made.

Andrea acknowledged that while this methodology does not take cost or politics into consideration, these factors may affect the order in which projects are implemented. She also noted that it is important to keep in mind that implementing all of the mitigation projects is desirable regardless of which prioritization category they fall under.

Community Lifelines

Next, Andrea took a few minutes to discuss the concept of community lifelines. FEMA has identified seven community lifelines that are the most fundamental services in the community that, when stabilized, enable all aspects of society to function. The seven community lifelines include: safety & security; food, water, shelter; health & medical; energy (power & fuel); communications; transportation; and hazardous materials.

While the concept of community lifelines was developed to support emergency response and planning, FEMA has begun applying it to all phases of emergency management. Efforts to protect community lifelines and prevent and mitigate potential impacts to them is one of the focuses of the BRIC grant program. A handout with a brief description of the community lifelines was included in the meeting packet. A column has been added to the mitigation action tables that will identify which community lifelines are being mitigated to create a clear connection to the concept.

Mitigation Actions

Andrea explained that mitigation actions include activities and projects that reduce the long-term risk to people and property from the natural hazards discussed in the risk assessment.

To help the jurisdictions think about and assemble their lists, Andrea provided several examples and referred participants to a two-page list of potential mitigation projects included in the handout material along with mitigation project lists from other jurisdictions. These examples can be used to help Committee members when they prepare their lists.

Status of Existing Projects

At the first meeting, Ken asked those jurisdictions who participated in the last Plan update to identify the status of their existing mitigation projects by completing the supplied form.

New Projects

As part of the meeting packet, Callie supplied the form titled **"Hazard Mitigation Projects"** and Andrea indicated this form should be used to submit new projects and activities for the Plan. She told the Committee that individual mitigation project lists will be developed for each participating jurisdiction and that this is a list of projects each jurisdiction would like to see accomplished if funding becomes available. FEMA is trying to stimulate the implementation of mitigation projects and activities to reduce the extraordinary amount of money being expended on hazard event damages.

The projects and activities included in the Plan should be mitigation-related, not emergency preparedness, response, recovery, or maintenance. Mitigation projects can include studies, regulatory activities, structural and infrastructure projects, and information/education activities. She provided advice for completing the mitigation project list including providing a detailed description of the project, the jurisdiction responsible for the project, and the time frame to complete the project.

Committee members were encouraged to contact Andrea, Callie, or Ken if questions arise before they return to the next Committee meeting.

What Happens Next?

Committee members were reminded to return all completed forms to AEC by Friday, September 27th. The next meeting is scheduled for:

November 19, 2024*
10:00 a.m.
Madison County EOC
101 E. Edwardsville Road, Wood River

With no other questions or comments, Andrea adjourned the meeting.

* Due to unforeseen circumstances experienced by the consulting team, the 3rd meeting scheduled for Tuesday, November 19th was postponed to Tuesday, January 15th.

Meeting Minutes

Madison County Multi-Jurisdictional
All Hazards Mitigation Planning Committee

January 14, 2025
1:00 p.m.
Madison County EOC
101 E. Edwardsville Road, Wood River

Committee Members

Alhambra, Village of
Alhambra Community FPD
Alton, City of
Alton CUSD #11
America's Central Port
Anderson Hospital
Bethalto CUSD #8
Collinsville, City of
Collinsville CUSD #10
Collinsville Township
East Alton, Village of
Edwardsville, City of
Edwardsville CUSD #7
Edwardsville Township
Glen Carbon FPD
Glen Carbon, Village of
Godfrey, Village of
Granite City, City of
Grantfork, Village of
Hamel, Village of
Highland, City of
IEMA-OHS
Madison County
- Building & Zoning
- EMA

(Madison County continued)
- Health Department
- Highway Department

Madison County ROE 41
Madison, City of
Marine, Village of
Marquette Catholic HS
Maryville, Village of
Metro East Sanitary District
Nameoki Township
Olive Fire District
OSF Saint Anthony's Health Center
Pontoon Beach, Village of
SIUE
The Salvation Army (Madison County Corps.)
St. Jacob, Village of
St. Mary's Catholic School
Troy, City of
Troy FPD
Venice, City of
Wood River, City of
Wood River D&LD
Worden, Village of
AEC, LLC

Welcome and Introductions

Fred Patterson, Madison County EMA Director, welcomed attendees and introduced Ken Runkle and Callie Smith of AEC, LLC. Ken opened the meeting by providing a brief recap to reorient Committee Members as to what has been accomplished to date. Callie distributed handout materials to each committee member.

Tornado Vulnerability Analysis

Ken began the tornado vulnerability analysis discussion by noting that this analysis estimates future potential damages in terms of dollar loss to residences, including

contents, for each participating jurisdiction based on FEMA acceptable formulas. The potential damages were calculated on the magnitude most likely to be encountered, not on a worst-case event.

Since 1950, 58 verified tornadoes have occurred in Madison County. While occurring less frequently than severe storms, severe winter storms and floods, tornadoes have caused at least $72.9 million in property damages, almost 43% of all property damage recorded in the County.

Using information from the 58 verified tornadoes, damages were calculated based on an "average" tornado. The average tornado in Madison County impacts approximately 0.21 square miles. Housing densities were calculated from U.S. Census Bureau information for each of the participating jurisdictions. This information, along with a set of assumptions were used to estimate the number of vulnerable residential structures. Potential dollar losses were then calculated for these vulnerable residential structures using the provided tax assessment values and an additional assumption about the degree of damage sustained by the structures and their contents.

Potential dollar losses caused by an average-sized tornado in Madison County to residences and their contents would be expected to exceed at least $11.6 million in any of the participating municipalities. Losses ranged from $11.6 million in Venice to $94.9 million in Godfrey.

Potential dollar losses by township in Madison County would be expected to range from $363,000 in Leef Township to $30.7 million in Edwardsville Township. Ken noted that the damage figure for the most populated townships would only be reached if the tornado's path included a portion of a municipality.

Risk Priority Index Exercise Results

Ken then presented the results of the Risk Priority Index Exercise that was conducted at the July 30th, 2024 meeting. He provided the Committee with a brief recap on what the Risk Priority Index is and how it can help participants determine which hazards present the highest risk and therefore which ones to focus on when formulating mitigation projects and activities.

Based on the Committee's responses, in Madison County, tornadoes scored the highest, followed by thunderstorms with damaging winds, floods, and severe winter storms. The hazards that scored the lowest were mine subsidence, landslides, and drought.

Mitigation Action Tables

Ken then took a few minutes to bring everyone up to speed on the status of informational forms and project lists. He then described how the mitigation projects submitted to AEC, the finalized goals, prioritization methodology, and other information will be used to complete the mitigation action tables for the participation jurisdictions that will be sent out electronically at the end of January. He chose a frequently-requested mitigation project (a community safe room, aka, tornado shelter) as an example to show how a typical project is prioritized and entered into the Plan on a Mitigation Action Table. He described how each column in the Table will be completed for this example.

Participants were reminded that this is a list of projects and activities they would like to see accomplished if the money becomes available. Also, for a jurisdiction to be eligible for a project, it must be on its list.

Since this is a mitigation plan, projects will not be included if they are not considered mitigation. Projects associated with emergency preparedness, response, recovery, and deferred maintenance will not be included in the Plan.

Public Forum and Adoption

Ken laid out the timeline for the remainder of the Plan update process and explained in more detail how the final meeting and adoption process would proceed. The final Committee meeting will be conducted as an open-house style public forum to present the draft Plan for review and comment. A paper copy of the draft Plan will be available for review at the meeting and posted online on the County's website. There will be a two-week public comment period following the public forum.

Unless otherwise specified, Committee members will receive an electronic copy of the draft plan to make available for public comment.

Once the comment period is over, any comments received will be incorporated into the Plan and submitted to IEMA-OHS/FEMA. Following IEMA-OHS and FEMA review, any edits requested will be made and then FEMA will issue an Approval Pending Adoption letter. At this point an email will be sent to all the participating jurisdictions, along with a copy of a model adoption resolution, asking them to formally adopt the Plan by resolution. A copy of the executed resolution should then be provided to AEC. Once all the adoption resolutions are received, AEC will submit them to IEMA-OHS and FEMA. FEMA will then issue the Final Approval letter starting the clock for the five-year update.

Plan Maintenance and Update

Ken described the commitments detailed in a draft of the Plan Maintenance and Update section provided in the meeting handouts for review by the Committee. The Plan will be monitored and evaluated on an annual basis by a Plan Maintenance Subcommittee, which will be made up of the participating jurisdictions and key members of the Planning Committee. The Madison County EMA Office will send out a Plan Maintenance Checklist to each of the participating jurisdictions who will be responsible for providing information to the Subcommittee. This information will include: the status of their mitigation actions; any hazard-related damages to critical facilities and infrastructure; the adoption of any new plans, policies, or regulations; and any significant changes in development. The Subcommittee will also evaluate the Plan to determine its effectiveness at achieving its stated purpose and goals. Participants can also add new mitigation actions during the annual monitoring phase or by contacting the EMA Director.

The EMA Office will then prepare an annual progress report detailing the results of the annual monitoring and evaluation period and provide copies to the Subcommittee. Any modifications or additions to mitigation project lists will require an update of the Mitigation Strategy and a resubmittal of the Plan to IEMA-OHS and FEMA for reference.

At least once every five years, the Plan must be reviewed, revised, and resubmitted to IEMA-OHS/FEMA for the participating jurisdictions to remain eligible for mitigation project

funds. At the five-year update, any jurisdiction that is not already part of this Plan and who wants to become part of the updated Plan may do so. New jurisdictions must supply the same information that all the current jurisdictions supplied.

What Happens Next?

Public Forum

The final Committee meeting will be conducted as an open-house style public forum where the draft Plan will be presented for review and comment. The public forum will be held on:

April 15, 2025*
4:00 – 6:00 p.m.
Madison County EOC
101 E. Edwardsville Road, Wood River

Public Comment

With no additional questions or comments, the meeting was adjourned.

* At the beginning of March 2025 FEMA paused grant funding nationwide. As a result, federally funded projects under the Illinois Emergency Management Agency – Office of Homeland Security were affected and paused, including the Madison County Hazard Mitigation Plan update. The Public Forum scheduled for April 15, 2025 was postponed. In May 2025, Madison County elected to restart the process and complete the Plan update and the Public Forum was rescheduled to June 25, 2025.

APPENDIX C

Madison County Citizen Questionnaire

You can help protect lives and property from natural hazard events in the County by taking a few moments to complete this questionnaire.

Asterisk (*) designates required questions for form completion.

* 1. **Please indicate where you live in the County (please check only one).**

- ☐ Alhambra
- ☐ Alton
- ☐ Bethalto
- ☐ Collinsville
- ☐ East Alton
- ☐ Edwardsville
- ☐ Fairmont City
- ☐ Glen Carbon
- ☐ Godfrey
- ☐ Granite City
- ☐ Grantfork
- ☐ Hamel
- ☐ Hartford
- ☐ Highland
- ☐ Livingston
- ☐ Madison
- ☐ Marine
- ☐ Maryville
- ☐ New Douglas
- ☐ Pontoon Beach
- ☐ Pierron
- ☐ Roxana
- ☐ South Roxana
- ☐ St. Jacob
- ☐ Troy
- ☐ Venice
- ☐ Williamson
- ☐ Wood River
- ☐ Worden
- ☐ Unincorporated County
- ☐ Other (please specify)

* 2. **Please place a checkmark next to each of the natural hazards listed below that you have experienced in the County (please check all that apply).**

- ☐ Severe Summer Storms (thunderstorms, hail, lightning strikes)
- ☐ Floods
- ☐ Severe Winter Storms (snow, sleet, ice)
- ☐ Excessive Heat
- ☐ Extreme Cold

- [ ] Tornadoes
- [ ] Drought
- [ ] Earthquakes
- [ ] Mine/Land Subsidence
- [ ] Landslides
- [ ] Dam Failures
- [ ] Other (please specify)

3. **Which of the natural hazards above have you encountered most frequently?**

4. **Rank the natural hazards listed below in order from 1 to 11 based on which hazard you feel poses the greatest threat. (1 = greatest threat and 11 = least threat)**
Each number should only be used once.

- Severe Summer Storms
- Floods
- Severe Winter Storms
- Excessive Heat
- Extreme Cold
- Tornadoes
- Drought
- Earthquakes
- Mine/Land Subsidence
- Landslides
- Dam Failures

* 5. **What types of mitigation projects or activities are most needed in the County?**
Please check the five you feel are most important

- [ ] Public information fact sheets and brochures describing actions residents can take to protect themselves and their property against natural hazard impacts.
- [ ] Floodplain Ordinances
- [ ] Building Codes and Enforcement
- [ ] Sirens or other Alert Systems
- [ ] Flood or Drainage Protection (i.e., culvert and drainage ditch maintenance, retention pond construction, dam or levee construction/maintenance and/or hydraulic studies to determine cause of drainage problems.)
- [ ] Maintain power during storms by burying power lines, trimming trees and/or purchasing a back-up generator
- [ ] Other (please specify)
- [ ] Tornado Safe Shelters
- [ ] Maintain roadway passage during snow storms and heavy rains
- [ ] Provide sufficient water supply during drought
- [ ] Identify residents with special needs in order to provide assistance during a natural hazard event
- [ ] Retrofit critical infrastructure (public water supplies, schools, sewage treatment facilities, bridges, hospitals and other important services) to reduce potential damages

* 6. **What are the most effective ways *for you* to receive information about how to make your household and property safer from natural hazards (Please check all that apply.)**

- [ ] Newspaper
- [ ] Television
- [ ] Radio
- [ ] Internet
- [ ] Social Media (Facebook, Twitter, etc.)
- [ ] Schools
- [ ] Other (please specify)
- [ ] Mailings
- [ ] Extension Service
- [ ] Public Workshops/Meetings
- [ ] Fire Department/Law Enforcement
- [ ] Public Health Department
- [ ] Municipal/County Offices

Thank you for your time in assisting with the development of the County's Hazard Mitigation Plan.
Madison County Multi-Jurisdictional All Hazards Mitigation Advisory Committee

Done

Powered by SurveyMonkey
See how easy it is to create surveys and forms.

Appendix C

Madison County - IL Emergency Management Agency
Published by Madison Wood · March 20 at 9:49 AM ·

If you saw our last post, you would know that next Tuesday, March 26 at 10:00 AM is our first planning meeting for updating our Multi-jurisdictional Hazard Mitigation Plan. Before we start the planning process, we are asking the citizens of Madison County to complete a survey to gather information and gauge public perception about the natural hazards that impact the County.

Please see the link below for the survey. Thank you!



SURVEYMONKEY.COM

Madison County Citizen Questionnaire

Take this survey powered by surveymonkey.com. Create your own surveys for free.

City News

Madison County Hazard Mitigation Plan Survey

Post Date: 03/21/2024 10:57 AM

The Madison County Multi-Jurisdictional All Hazard Mitigation Plan evaluates damage to life and property from natural and man-made hazards that have impacted the County and identifies projects and activities to reduce these damages. The Plan is considered to be multi-jurisdictional because it includes municipalities and other jurisdictions (townships, fire protection districts, schools, etc.) who want to participate.

Click here to take the survey

Follow the link below to learn more:

https://www.collinsvilleil.org/MadCoHazard-Mitigation-Plan

Return to full list >>

APPENDIX D

Frequently Asked Questions

Madison County Multi-Jurisdictional
All Hazard Mitigation Plan Update

1) What is the Madison County All Hazard Mitigation Plan?

The Madison County Multi-Jurisdictional All Hazard Mitigation Plan evaluates damage to life and property from natural and man-made hazards that have impacted the County and identifies projects and activities to reduce these damages. The Plan is considered to be multi-jurisdictional because it includes municipalities and other jurisdictions (townships, fire protection districts, schools, etc.) who want to participate.

2) What is hazard mitigation?

Hazard mitigation is any action taken to ***reduce*** the long-term risk to people and property from natural and man-made hazards ***before*** an event occurs.

3) Why is this Plan being updated?

The Plan update fulfills federal planning requirements of the Stafford Act as amended by the Disaster Mitigation Act. While meeting federal requirements, this Plan update also provides these benefits:

- Funding for mitigation projects and activities ***before*** disasters occur.
- Funding for projects and activities ***following*** declared disasters.
- Increased awareness about natural hazards and closer cooperation among the various organizations and political jurisdictions involved in emergency planning and response.

4) Who is updating this Plan?

The Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee is updating the Plan with assistance from technical experts in emergency planning, environmental matters, and infrastructure. Stakeholders from education, business and industry, emergency services, municipal, township, and county government, healthcare, nonprofit/community-based organizations, social services, and law enforcement will be invited to serve on the Committee.

5) How can I participate?

You are invited to attend public meetings of the Madison County All Hazards Mitigation Planning Committee. In addition, you are encouraged to provide photographs, other documentation, and anecdotal information about damages you experienced from natural and man-made hazards in Madison County. Surveys will be available at participating jurisdictions and through Madison County to help gather specific information from residents. All of this information will be used to update the Plan. The draft Plan update will be presented at a public forum for further public input.

More information can be obtained by contacting:

Gabrielle Riggs, Emergency Preparedness Planner
Madison County Emergency Management Agency
(618) 296-5907
gkriggs@madisoncountyil.gov

APPENDIX E

MADISON COUNTY EMERGENCY MANAGEMENT AGENCY
Director Frederick G. Patterson
101 E. Edwardsville Road, Suite 260
Wood River, IL 62095
Office (618) 296-4478
fgpatterson@madisoncountyil.gov

FOR IMMEDIATE RELEASE

Contact: Gabrielle Riggs
618-296-5907

Madison County Prepares for Natural and Man-Made Disasters

Edwardsville, IL (March 11, 2024) — Madison County will update its plan to reduce the damages caused by severe weather such as floods, snow and ice storms, thunderstorms, and tornados, among other events. The plan is called a Hazard Mitigation Plan, and the process to update it will be funded through a grant from the Federal Emergency Management Agency (FEMA).

"The Plan describes the natural and man-made hazard events that have impacted the County and identifies activities and projects to reduce the risk to residents, property, and infrastructure," said Gabrielle Riggs, Emergency Preparedness Planner at the Madison County Emergency Management Agency. "By having an updated hazard mitigation plan, the County and participating jurisdictions will remain eligible for federal funds to construct these projects," she added.

The Madison County Hazard Mitigation Planning Committee will hold its first meeting on Tuesday, March 26, 2024, at 10 A.M. The meeting will be held at the Madison County EOC, 101 E. Edwardsville Road, Wood River. The meeting is open to the public.

The Planning Committee includes representatives from the county, townships, municipalities, schools, and fire protection district, as well as technical partners and other stakeholders. Meetings of this committee will be conducted over the next year as working sessions so that any interested residents can attend and ask questions. The purpose of these working sessions is to gather and discuss information that will be used to update the Plan.

"This mitigation plan is different from the County's emergency response plan because it focuses on ways to reduce and prevent damages before they occur," added Riggs.

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Madison County to begin hazard mitigation planning process; public input needed

By Editor (https://www.ibjonline.com/author/editor/) | February 13, 2024 | 0 (https://www.ibjonline.com/2024/02/13/madison-county-to-begin-hazard-mitigation-planning-process-public-input-needed/#respond)

The public is invited to take part in an initial meeting, at which the Madison County Emergency Management Agency will resume the hazard mitigation planning process.

As noted by the Southwestern Madison County Chamber of Commerce, the county has hired American Environmental Corp. (AEC) to assist them in updating its “All Hazards Mitigation Plan.”

An All Hazards Mitigation Plan (HMP) details the natural and man-made hazard events that have previously impacted the county and identifies activities and projects that each participating jurisdiction would like to see implemented to reduce the risk to people and property from these hazards before an event occurs.

There are four possible initial meeting options proposed for public input. The county is now asking for interested participants to complete a very short survey to share availability and attend the meeting.

ADVERTISING

To weigh in on the date and time for the initial meeting, go to https://www.surveymonkey.com/r/Madison-M1 (https://www.surveymonkey.com/r/Madison-M1)

The initial meeting, at which the county will resume its hazard mitigation planning process, will be on one of two dates and times proposed:

- Tuesday, March 26, from 10 to 11:15 a.m.,
- Tuesday, March 26, from 1:30 to 2:45 p.m.,
- Wednesday, March 27, from 10 to 11:15 a.m., or
- Wednesday, March 27, from 1:30 to 2:45 p.m.



Appendix E

City News

Madison County Hazard Mitigation Plan Survey

Post Date: 03/21/2024 10:57 AM

The Madison County Multi-Jurisdictional All Hazard Mitigation Plan evaluates damage to life and property from natural and man-made hazards that have impacted the County and identifies projects and activities to reduce these damages. The Plan is considered to be multi-jurisdictional because it includes municipalities and other jurisdictions (townships, fire protection districts, schools, etc.) who want to participate.

Click here to take the survey

Follow the link below to learn more:

https://www.collinsvilleil.org/MadCoHazard-Mitigation-Plan

Return to full list >>

Appendix E

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Madison County - IL Emergency Management Agency
Published by Madison Wood · March 11 at 3:36 PM ·

We are in the planning stage of updating the Madison County Multi-Jurisdictional Hazard Mitigation Plan. You will see a press release below pertaining to this. The first planning meeting is March 26th, 2024, at 10:00 am at our Emergency Operations Center. The meeting is open to the public if anyone is interested in attending.

MADISON COUNTY EMERGENCY MANAGEMENT AGENCY
Director Frederick G. Patterson
101 E. Edwardsville Road, Suite 260
Wood River, IL 62095
Office (618) 296-4478
fgpatterson@madisoncountyil.gov

FOR IMMEDIATE RELEASE

Contact: Gabrielle Riggs
618-296-5907

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"The Plan describes the natural and man-made hazard events that have impacted the County and identifies activities and projects to reduce the risk to residents, property, and infrastructure," said Gabrielle Riggs, Emergency Preparedness Planner at the Madison County Emergency Management Agency. "By having an updated hazard mitigation plan, the County and participating jurisdictions will remain eligible for federal funds to construct these projects," she added.

The Madison County Hazard Mitigation Planning Committee will hold its first meeting on Tuesday, March 26, 2024, at 10 A.M. The meeting will be held at the Madison County EOC, 101 E. Edwardsville Road, Wood River. The meeting is open to the public.

The Planning Committee includes representatives from the county, townships, municipalities, schools, and fire protection district, as well as technical partners and other stakeholders. Meetings of this committee will be conducted over the next year as working sessions so that any interested residents can attend and ask questions. The purpose of these working sessions is to gather and discuss information that will be used to update the Plan.

"This mitigation plan is different from the County's emergency response plan because it focuses on ways to reduce and prevent damages before they occur," added Riggs.

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Director Frederick G. Patterson
101 E. Edwardsville Road, Suite 260
Wood River, IL 62095
Office (618) 296-4478
fgpatterson@madisoncountyil.gov

FOR IMMEDIATE RELEASE

Contact: Gabrielle Riggs
618-296-5907

Reducing Damages Caused by Severe Weather and Other Hazards

Edwardsville, IL (July 15, 2024) — The frequency of and damages caused by severe storms and other natural and man-made hazards in Madison County will be discussed when the Madison County Hazard Mitigation Planning Committee meets on Tuesday, July 30, 2024 at 10:00 A.M. The meeting will be held at the Madison County EOC, 101 E. Edwardsville Road, Wood River. The meeting is open to the public.

This Committee, comprised of County, municipal, township, fire protection, educational, flood control, and health care representatives, as well as technical partners and other stakeholders, will meet over the next several months to update the Madison County Hazard Mitigation Plan.

"The goal of this Committee Meeting is to identify how often severe weather events occur within the County and what types of damages have resulted. Based on this information we will compile lists of activities and projects to reduce damages caused by these events," said Gabrielle Riggs, Emergency Preparedness Planner at the Madison County Emergency Management Agency.

The focus of this effort is on natural and man-made hazards — severe thunderstorms with damaging winds or hail, tornadoes, snow and ice storms, floods, drought, excessive heat, hazardous materials, and waste disposal. Interested persons can provide input at these meetings or submit their comments and questions to their appropriate representatives.

Plan participants to date include the County, 19 municipalities, seven fire protection districts, seven school districts, and six townships, as well as the American Red Cross, America's Central Port, Anderson Hospital, HWRT Oil Company LLC, Madison County Farm Bureau, Metro East Sanitary District, OSF Saint Anthony's Health Center, the Salvation Army, Southern Illinois University – Edwardsville, and the Wood River Drainage & Levee District. Jurisdictions that have yet to participate in a committee meeting are encouraged to attend.

"This Plan is an important resource for determining how to prepare for storms and other natural and man-made hazards. After the Plan is updated, comprehensive information will be available in one document to help guide those who are making decisions about how to better protect the residents of Madison County," added Riggs.

Madison County - IL Emergency Management Agency
Published by Madison Wood
· July 15 at 3:54 PM ·

As we are in the planning stage of updating the Madison County Multi-Jurisdictional Hazard Mitigation Plan, there will be meetings over the next several months. The next meeting is July 30th at 10:00 am at our Emergency Operations Center. The meeting is open to the public if anyone is interested in attending.

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fgpatterson@madisoncountyil.gov

FOR IMMEDIATE RELEASE

Contact: Gabrielle Riggs
618-296-5907

Reducing Damages Caused by Severe Weather and Other Hazards

Edwardsville, IL (December 30, 2024) — Projects and activities that can protect residents and vital services in Madison County will be the main topic of discussion when the rescheduled meeting of the Madison County Hazard Mitigation Planning Committee occurs on Tuesday, January 14 at 1:00 P.M. The meeting will be held at the Madison County EOC, 101 E. Edwardsville Road, Wood River. The meeting is open to the public.

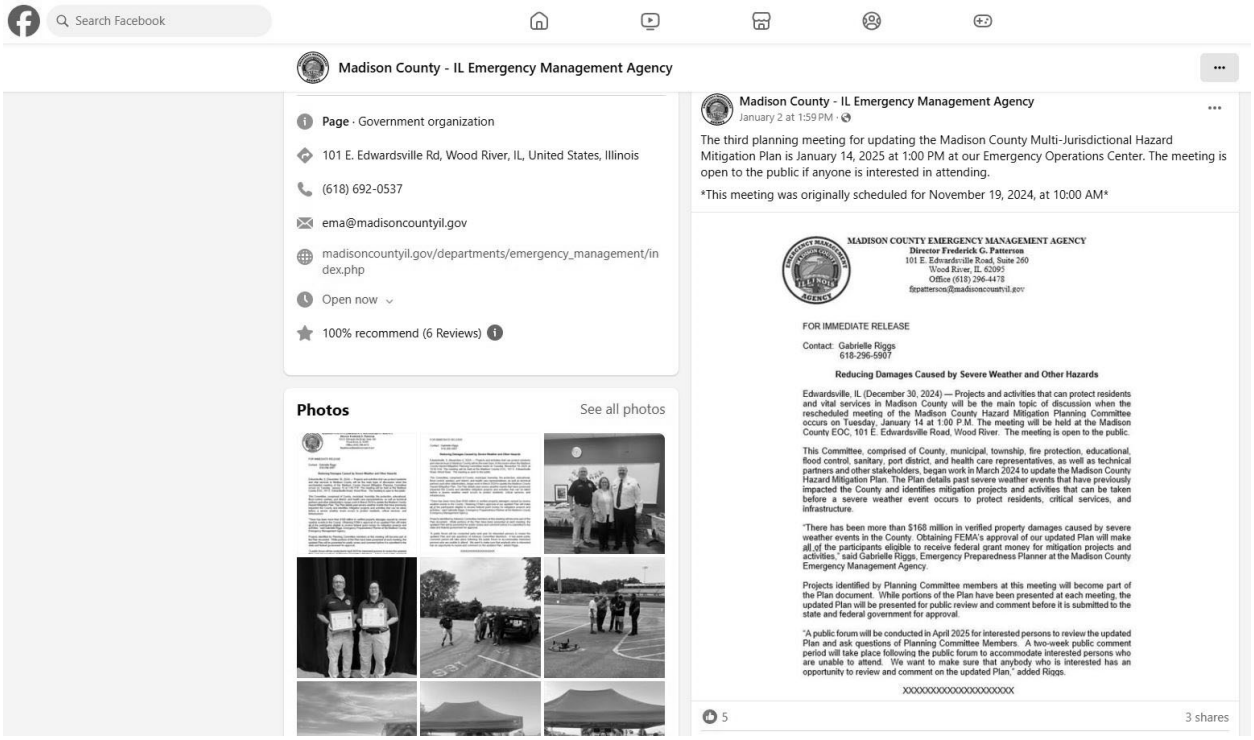
This Committee, comprised of County, municipal, township, fire protection, educational, flood control, sanitary, port district, and health care representatives, as well as technical partners and other stakeholders, began work in March 2024 to update the Madison County Hazard Mitigation Plan. The Plan details past severe weather events that have previously impacted the County and identifies mitigation projects and activities that can be taken before a severe weather event occurs to protect residents, critical services, and infrastructure.

"There has been more than $168 million in verified property damages caused by severe weather events in the County. Obtaining FEMA's approval of our updated Plan will make all of the participants eligible to receive federal grant money for mitigation projects and activities," said Gabrielle Riggs, Emergency Preparedness Planner at the Madison County Emergency Management Agency.

Projects identified by Planning Committee members at this meeting will become part of the Plan document. While portions of the Plan have been presented at each meeting, the updated Plan will be presented for public review and comment before it is submitted to the state and federal government for approval.

"A public forum will be conducted in April 2025 for interested persons to review the updated Plan and ask questions of Planning Committee Members. A two-week public comment period will take place following the public forum to accommodate interested persons who are unable to attend. We want to make sure that anybody who is interested has an opportunity to review and comment on the updated Plan," added Riggs.

XXXXXXXXXXXXXXXXXXX


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Madison County - IL Emergency Management Agency
January 2 at 1:59 PM
The third planning meeting for updating the Madison County Multi-Jurisdictional Hazard Mitigation Plan is January 14, 2025 at 1:00 PM at our Emergency Operations Center. The meeting is open to the public if anyone is interested in attending.
This meeting was originally scheduled for November 19, 2024, at 10:00 AM
MADISON COUNTY EMERGENCY MANAGEMENT AGENCY
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XXXXXXXXXXXXXXXXXXXX
5
3 shares

Appendix E

MADISON COUNTY EMERGENCY MANAGEMENT AGENCY
Director Frederick G. Patterson
101 E. Edwardsville Road, Suite 260
Wood River, IL 62095
Office (618) 296-4478
fgpatterson@madisoncountyil.gov

FOR IMMEDIATE RELEASE

Contact: Gabrielle Riggs
618-296-5907

Plan to Protect Health and Property in Madison County Ready for Public Review

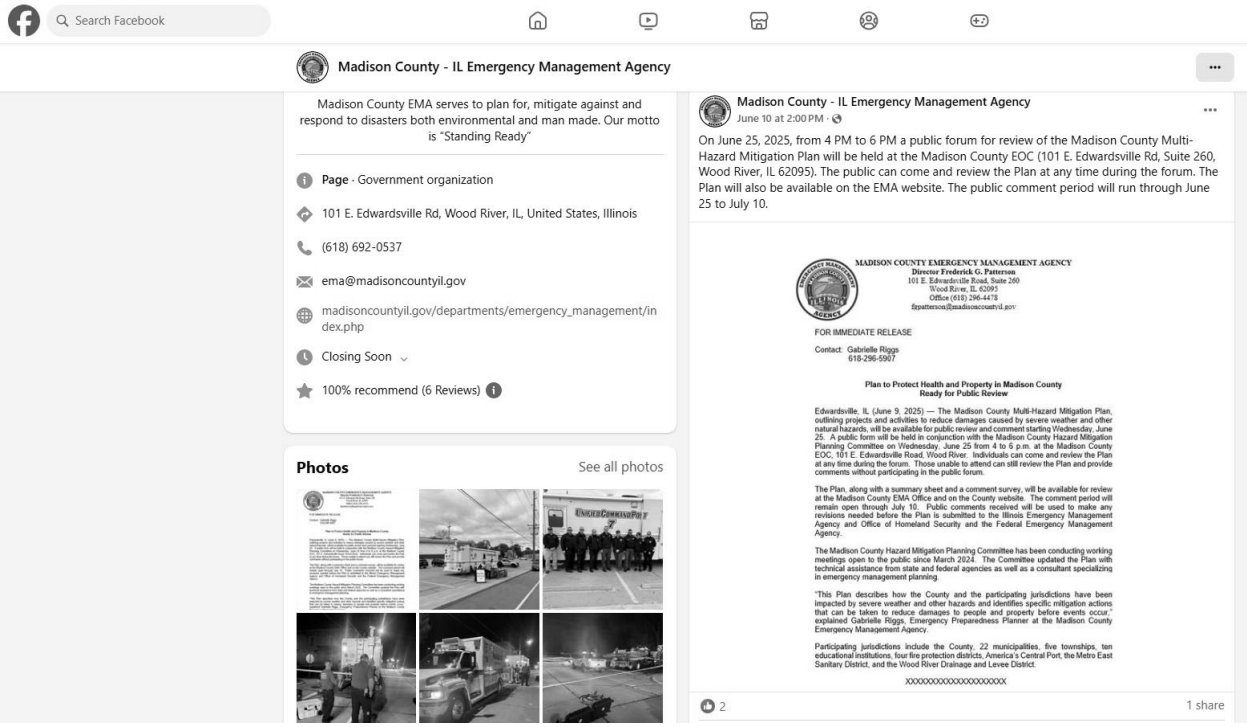
Edwardsville, IL (June 9, 2025) — The Madison County Multi-Hazard Mitigation Plan, outlining projects and activities to reduce damages caused by severe weather and other natural hazards, will be available for public review and comment starting Wednesday, June 25. A public form will be held in conjunction with the Madison County Hazard Mitigation Planning Committee on Wednesday, June 25 from 4 to 6 p.m. at the Madison County EOC, 101 E. Edwardsville Road, Wood River. Individuals can come and review the Plan at any time during the forum. Those unable to attend can still review the Plan and provide comments without participating in the public forum.

The Plan, along with a summary sheet and a comment survey, will be available for review at the Madison County EMA Office and on the County website. The comment period will remain open through July 10. Public comments received will be used to make any revisions needed before the Plan is submitted to the Illinois Emergency Management Agency and Office of Homeland Security and the Federal Emergency Management Agency.

The Madison County Hazard Mitigation Planning Committee has been conducting working meetings open to the public since March 2024. The Committee updated the Plan with technical assistance from state and federal agencies as well as a consultant specializing in emergency management planning.

"This Plan describes how the County and the participating jurisdictions have been impacted by severe weather and other hazards and identifies specific mitigation actions that can be taken to reduce damages to people and property before events occur," explained Gabrielle Riggs, Emergency Preparedness Planner at the Madison County Emergency Management Agency.

Participating jurisdictions include the County, 22 municipalities, five townships, ten educational institutions, four fire protection districts, America's Central Port, the Metro East Sanitary District, and the Wood River Drainage and Levee District.


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Madison County - IL Emergency Management Agency
Madison County EMA serves to plan for, mitigate against and respond to disasters both environmental and man made. Our motto is "Standing Ready"
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June 10 at 2:00 PM ·
On June 25, 2025, from 4 PM to 6 PM a public forum for review of the Madison County Multi-Hazard Mitigation Plan will be held at the Madison County EOC (101 E. Edwardsville Rd, Suite 260, Wood River, IL 62095). The public can come and review the Plan at any time during the forum. The Plan will also be available on the EMA website. The public comment period will run through June 25 to July 10.
MADISON COUNTY EMERGENCY MANAGEMENT AGENCY
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FOR IMMEDIATE RELEASE
Contact: Gabrielle Riggs
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Plan to Protect Health and Property in Madison County
Ready for Public Review
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XXXXXXXXXXXXXXXXXX
2
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Appendix E

MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN – PUBLIC FORUM & COMMENT PERIOD

‹ Previous Next ›

Madison County Multi-Jurisdictional All Hazards Mitigation Plan – Public Forum & Comment Period

On June 25, 2025, there is a Public Forum meeting from 4:00 p.m. to 6:00 p.m. which will kick off a two-week public comment period for the draft Madison County Multi-Jurisdictional All Hazards Mitigation Plan. A paper copy of the Plan will be available at the Madison County EMA Office following the public forum and the Plan will be posted to the County's website and the Village of Godfrey's website. Both versions will be available during the public comment period that starts today and runs through Thursday, July 10, 2025. There is also an attached a 2-page summary sheet that provides information on the draft Plan. The Public Forum Summary Handout, the Draft of the Mitigation Plan and the Appendices links can be found below.

Madison County Multi-Jurisdictional All Hazard Mitigation – Public Forum Summary Handout for June 25, 2025 – Click Here for link

Draft of Madison County Multi-Jurisdictional All Hazard Mitigation Plan – Click Here for Link

Draft of Madison County Multi-Jurisdictional All Hazard Mitigation Appendices – Click Here for Link

If any residents would like to provide comments on the Plan, you can fill out the electronic comment survey found at: Survey Monkey comment link

By John Uhl | June 25th, 2025 | Press Release | 0 Comments

FIND US

Village of Godfrey, Illinois
PO Box 5067
6810 Godfrey Road
Godfrey, IL 62035

MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN UPDATE

Frequently Asked Questions

Madison County Multi-Jurisdictional
All Hazards Mitigation Plan Update

*Madison County will be updating its Multi-Jurisdictional Hazard Mitigation Plan. There will be four (4) planning meetings scheduled to provide basic information needed to update the plan and develop/update the mitigation projects and activities. All meetings are held at the Madison County EOC office at 101 E. Edwardsville Road, Wood River, IL. The first planning meeting was on March 26, 2024. The second planning meeting was on July 30, 2024. The third planning meeting was on January 14, 2025. The fourth and last planning meeting is a Public Forum from 4:00 p.m. to 6:00 p.m. on June 25, 2025. This meeting will kick off a two-week public comment period for the draft plan. A paper copy of the Plan will be available at the Madison County EMA Office following the public forum and the Plan will be posted to the County's website. Both versions will be available during the public comment period that starts today and runs through Thursday, July 10, 2025. There is also an attached a 2-page summary sheet that provides information on the draft Plan. The Public Forum Summary Handout, the Draft of the Mitigation Plan and the Appendices links can be found below.

Madison County Multi-Jurisdictional All Hazard Mitigation – Public Forum Summary Handout for June 25, 2025 – Click Here for link

Draft of Madison County Multi-Jurisdictional All Hazard Mitigation Plan – Click Here for Link

Draft of Madison County Multi-Jurisdictional All Hazard Mitigation Appendices – Click Here for Link

If any residents would like to provide comments on the Plan, you can fill out the electronic comment survey found at: Survey Monkey survey comment link

Click Here to see Madison County Hazard Mitigation Plan 2020

Click Here to See Village Of Godfrey Resolution 2020-14 "Resolution of Adoption of the Madison County Multi-Jurisdictional All Hazards Mitigation Plan"

1) What is the Madison County All Hazard Mitigation Plan?
The Madison County Multi-Jurisdictional All Hazards Mitigation Plan evaluates damage to life and property from natural and man-made hazards in the County and identifies projects and activities that can reduce these damages. The Plan is considered multi-jurisdictional because it includes municipalities and other jurisdictions (townships, fire protection districts, schools, drainage & levee districts, etc.) who want to participate.

2) What is hazard mitigation?
Hazard mitigation is any action taken to **reduce** the long-term risk to people and property from natural and man-made hazard **before** an event occurs.

3) Why is this Plan being updated?
The Plan update fulfills federal planning requirements of the Stafford Act as amended by the Disaster Mitigation Act. While meeting federal requirements, this Plan update also provides these benefits:
– Funding for mitigation projects and activities **before** disasters occur.
– Funding for projects and activities **following** declared disasters.
– Increased awareness about natural hazards and closer cooperation among the various organizations and political jurisdictions involved in emergency planning and response.

4) Who is updating this Plan?
The Madison County Multi-Jurisdiction All Hazards Mitigation Planning Committee is updating the Plan with assistance from technical experts in emergency planning, environmental matters, and infrastructure. Stakeholders from education, business and industry, emergency services, municipal, township, and county government, health care, nonprofit/community-based organizations, social services, and law enforcement will be invited to serve on the Committee.

Privacy - Terms

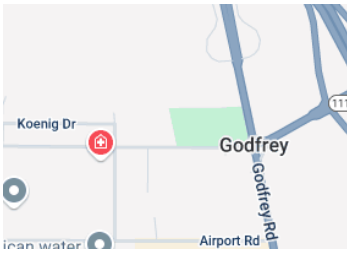
5) How can I participate?

You are invited to attend public meetings of the Madison County All Hazards Mitigation Planning Committee. In addition, you are encouraged to provide photographs, other documentation, and anecdotal information about damages you experienced from natural and man-made hazards in Madison County. Surveys will be available at participating jurisdictions and through Madison County to help gather specific information from residents. All of this information will be used to update the Plan. The draft Plan update will be presented at a public forum for further public input.

More information can be obtained by contacting:
Gabrielle Riggs, Emergency Preparedness Planner
Madison County Emergency Management Agency
(618) 296-5907
gkriggs@madisoncountyil.gov

FIND US

Village of Godfrey, Illinois
PO Box 5067
6810 Godfrey Road
Godfrey, IL 62035
Phone: (618) 466-3324
M-F, 7:30 – 12, 1 – 4:30



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APPENDIX F

MADISON COUNTY MULTI-JURISDICTIONAL
ALL HAZARDS MITIGATION PLAN
PUBLIC FORUM SUMMARY HANDOUT

JUNE 25, 2025
4:00 P.M. – 6:00 P.M.

Each year natural hazards (i.e., severe thunderstorms, tornadoes, severe winter storms, flooding, etc.) cause damage to property and threaten the lives and health of Madison County residents. Since 1969, Madison County has been included in 16 emergency and major federal disaster declarations and experienced at least $170.5 million in recorded property damages and $46.5 million in recorded crop damages.

In the last 10 years alone (2014 – 2023), there have been 100 verified heavy rain events, 83 thunderstorms with damaging winds, 55 excessive heat events, 31 severe storms with hail one inch in diameter or greater, 25 flash flood events, 19 severe winter storms, 18 extreme cold events, 17 riverine flood events, 6 verified landslides, 6 lightning strikes with verified damages, 4 tornadoes, 2 verified mine subsidence events, 2 levee failures, and one earthquake in the County. While natural and man-made hazards cannot be avoided, their impacts can be reduced through effective hazard mitigation planning and implementation.

What is hazard mitigation planning?
Hazard mitigation planning is the process of determining how to reduce or eliminate property damage and loss of life from natural and man-made hazards. This process helps the County and participating jurisdictions reduce their risk by identifying vulnerabilities and developing mitigation actions to lessen and sometimes even eliminate the effects of a hazard. The results of this process are documented in an all hazards mitigation plan.

Why prepare an updated all hazards mitigation plan?
By preparing and adopting an updated all hazards mitigation plan, participating jurisdictions become or remain eligible to apply for and receive federal hazard mitigation funds to implement mitigation actions identified in the plan. These funds, made available through the Disaster Mitigation Act of 2000, can help provide local government entities with the opportunity to complete mitigation projects that would not otherwise be financially possible.

Who participated in the update of the County's All Hazards Mitigation Plan?
Recognizing the benefits that could be gained from preparing an updated all hazards mitigation plan, Madison County invited all the local government entities within the County to participate. The following jurisdictions chose to participate in the Plan update with the County:

- Alhambra, Village of
- Alton, City of
- Alton CUSD #11
- America's Central Port
- Anderson Hospital
- Bethalto CUSD #8
- Center for Educational Opportunities – ROE 41
- Collinsville, City of
- Collinsville CUSD #10
- Collinsville Township
- East Alton, Village of
- Edwardsville, City of
- Edwardsville CUSD #7
- Edwardsville Township
- Glen Carbon, Village of
- Glen Carbon FPD
- Godfrey, Village of
- Granite City, City of
- Grantfork, Village of
- Hamel, Village of
- Highland, City of
- Leef Township
- Livingston, Village of
- Madison, City of
- Marine, Village of
- Marquette Catholic High School
- Maryville, Village of
- Metro East Sanitary District
- Nameoki Township
- Olive FPD
- OSF St. Anthony's Health Center
- Pontoon Beach, Village of
- Roxana, Village of
- Roxana CUSD #1
- St. Jacob, Village of
- St. Mary's Catholic School
- South Roxana FPD
- SIUE
- Troy, City of
- Troy FPD
- Venice, City of
- Wood River, City of
- Wood River D&LD
- Wood River-Hartford ESD #15
- Worden, Village of

MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

How was the Plan update developed?

The Madison County Multi-Jurisdictional All Hazards Mitigation Plan update was developed through the Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee. The Committee included representatives from each participating jurisdiction, as well as input from agriculture, business and industry, economic development, education, emergency services, healthcare, regional planning, social services, and utilities. The Planning Committee met four times between March 2024 and June 2025.

Which hazards are included in the Plan update?

After reviewing the risk assessment, the Planning Committee chose to include the following hazards in the Plan:

Natural Hazards

- severe storms (thunderstorms, hail, lightning & heavy rain)
- excessive heat
- floods (riverine & flash)
- severe winter storms (snow & ice)
- extreme cold
- tornadoes
- drought
- earthquakes
- mine subsidence
- landslides
- levee failures
- dam failures

Man-Made Hazards

- hazardous substances (generation, transportation, and storage/handling)
- waste disposal
- hazardous material incidents
- waste remediation
- terrorism

What is included in the Plan update?

The Plan update is divided into sections that cover the planning process; risk assessment; jurisdiction capabilities; changes in conditions, including land use and development; mitigation strategy, including the jurisdiction-specific mitigation action lists; plan maintenance; and adoption. The majority of the Plan update is devoted to the risk assessment and mitigation strategy.

The risk assessment identifies the natural and man-made hazards that pose a threat to the County and includes a profile of each hazard, which describes the location and severity of past occurrences, reported damages to public health and property, and the likelihood of future occurrences. It also provides a vulnerability analysis that estimates the potential impacts each natural hazard would have on the health and safety of the residents of Madison County, as well as the buildings, critical facilities, and infrastructure in the County.

The key component of the mitigation strategy is a list of the projects and activities developed by each participating jurisdiction to reduce the potential loss of life and property damage that results from the natural hazards identified in the risk assessment. These projects and activities are intended to be implemented *before* a hazard event occurs.

What happens next?

Any comments received at today's public forum and during the public comment period will be reviewed and, where applicable, incorporated into the draft Plan update before it is submitted to the Illinois Emergency Management Agency and Office of Homeland Security (IEMA-OHS) and the Federal Emergency Management Agency (FEMA) for review. Once IEMA-OHS and FEMA have reviewed and approved the Plan, it will be presented to the County and each participating jurisdiction for formal adoption. After adopting the Plan update, each participating jurisdiction will be eligible to apply for federal mitigation funds and can begin implementing the mitigation actions identified in the Plan.

APPENDIX G

MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

COMMENT SHEET

PLAN COMMENT PERIOD
JUNE 25, 2025 THRU JULY 10, 2025

The County's Multi-Jurisdictional All Hazards Mitigation Plan evaluates damage to life and property from the natural and man-made hazards that occur in the County. This Plan also identifies projects and activities for the County and each participating jurisdiction that will help reduce these damages. This comment sheet should be used to provide feedback on the draft Plan update.

What comments, concerns, or questions do you have regarding the draft Plan update?
(Use additional sheets if necessary.)

_____

_____

_____

_____

_____

_____

_____

_____

_____

_____

Please Print Your Name, Address, and Phone Number Below:

Name: _____ Phone: _____

Address: _____

_____ Zip Code: _____

Comments will be accepted through July 10, 2025

Place
Stamp
Here

Gabrielle Riggs, Emergency Preparedness Planner
Madison County EMA
101 E. Edwardsville Rd., Suite 260
Wood River, IL 62095

Madison County Multi-Jurisdictional All Hazards Mitigation Plan Comment Survey

The Madison County Multi-Jurisdictional All Hazards Mitigation Plan evaluates damage to life and property from the natural and man-made hazards that occur in the County. This Plan also identifies projects and activities for the County and each participating jurisdiction to help reduce these damages. This comment sheet should be used to provide feedback on the draft Plan.

An asterisk (*) denotes a question that is required for form completion.

* 1. What comments, concerns, or questions do you have regarding the draft Plan?

* 2. Name:

3. Address:

4. City/Village/Town:

5. State/Province:

6. Zip Code:

* 7. Email Address:

8. Phone Number:

Comments will be accepted through July 10, 2025.

Done

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APPENDIX H

Runkle, Ken

From: Frederick G. Patterson <fgpatterson@madisoncountyil.gov>
Sent: Tuesday, June 10, 2025 2:08 PM
To: allan.davis@bondcountyil.gov; ccema@clintonco.illinois.gov; esda@jerseycounty-il.gov; susan.lewis@macoupincountyil.gov; danh@montgomerycountyil.gov; herbert.simmons@co.st-clair.il.us; ema@sccmo.org; eocgeneral@stlouiscountymo.gov
Cc: George T. Koranyi; Gabrielle K. Riggs; Frederick G. Patterson; Runkle, Ken
Subject: All-Hazards Mitigation Plan (2025) - Madison County

Hello EM Team,

This courtesy notification is to kindly inform you that Madison County is finalizing their All-Hazards Mitigation Plan (FY-2025).

As such, you are invited to attend the public forum "final" meeting for this project:

Wednesday, June 25, 2025
4 p.m. to 6 p.m.
Madison County EOC
101 E. Edwardsville Road, Wood River

In this situation, Madison County contracted American Environmental Corporation, LLC for this product. Ken Runkle, AEC consultant, may be contacted at 217-585-9517 x4 or krunkle@aecspfld.com.

Please let me know if you have any questions or want any additional information as it pertains to this matter.

Best regards,

Frederick (Fred) Patterson
DSN 901
Director
Madison County Emergency Management Agency
101 E. Edwardsville Road, Suite 260
Wood River, IL 62095
Office: 618.296.4478
Cell: 618.818.9077
Email: fgpatterson@madisoncountyil.gov

APPENDIX I

Assets Vulnerability Survey

Jurisdiction: Madison County
Prepared By: Frederick Patterson
Title: EMA Director Date: 07/29/2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☑ MC Admin Building do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☑ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☑ Traffic signals has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☑ MC Admin Building do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☐ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☐ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☑ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☑ MC Admin Building do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☐ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☑ Other (please specify): MC EMA is in partnership with United Way regarding cooling stations. In addition, also American Red Cross and Salvation Army.

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☑ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☑ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☑ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☑ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☑ Other (please specify): MC EMA is in partnership with United Way regarding warming stations. In addition, also American Red Cross and Salvation Army.

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☐ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☑ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☑ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☑ Other (please specify): An earthquake can cause trees to topple and block roadways or heave pavements.

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☑ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☑ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☑ Other (please specify): MC EMA partners with US Army Corps of Engineers and applicable stakeholders regarding this vulnerability.

☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☑ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: roadways and bridges, etc.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Edwardsville - Communications/Internet underground line was compromised by water that was repaired which restored communications/internet.

County wide - Lightning strikes on traffic signals

County wide - Flooding has caused damage to oil and chip rural roads at various locations

Assets Vulnerability Survey

Jurisdiction: Alhambra
Prepared By: Duane Take & Randy Take
Title: Village Supt. / Fire Chief Date: 7/18/24

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☒ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☒ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☒ Streets within the community flood during heavy rain events adversely impacting travel.
- ☒ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☒ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☒ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☒ Lift station #2 has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☒ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☒ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☒ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☒ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☒ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☒ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☒ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☒ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☒ Unincorporated parts of the County are not covered by storm warning sirens.
- ☒ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☐ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☒ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☒ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☐ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☒ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☒ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☒ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☒ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☒ Severe winter storms create challenges for critical worker travel.
- ☒ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☒ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☒ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☒ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☒ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☒ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☒ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☒ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☒ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____

- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☒ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Lift Station #2 was struck by Lightning Strike and damged one of the pumps & Part of the Control Panel

Assets Vulnerability Survey

Jurisdiction: CITY OFALTON
Prepared By: _____
Title: _____ Date: _____

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☐ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☑ COMMUNICATIONS TOWERS has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☐ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☑ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☐ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☐ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☐ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☑ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☑ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☑ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☑ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☑ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☑ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☑ Other (please specify): FLOODING OF THE MISSISSIPPI RIVER HAS ADVERSELY IMPACTED BUSINESSES IN THE DOWNTOWN DISTRICT
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☑ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☑ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: ACCESS TO ILAWC AND RESIDENCES IN THE AREA

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: America's Central Port
Prepared By: Philip Sholl
Title: Senior Project Manager Date: 9/26/2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☑ America's Central Port do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☑ Other (please specify): Power outage at pump station

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☑ America's Central Port do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☑ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☐ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☐ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☑ America's Central Port do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☑ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☑ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☑ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☑ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☑ Other (please specify): Pump station overwhelmed

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☑ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☑ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☐ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☑ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☑ Yes ☐ No

If yes, describe the type(s) of damage sustained.

The flood event of 2019 caused excessive silting of our harbors, sewer pipes to collapse and separate, railroad track washout and damage.

Assets Vulnerability Survey

Jurisdiction: City of Collinsville
Prepared By: John Bailot
Title: Fire Chief/Emergency Mgmt.Director Date: _____

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☑ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☑ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☑ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: Power Grid System

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: VILLAGE OF EAST ALTON
Prepared By: Tim Quigley
Title: FIRE Chief Date: 7/11/2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☑ WASTE WATER PLANT, LIFT STATIONS do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☑ Other (please specify): THUNDER STORMS WITH DAMAGING WINDS HAVE THE POTENTIAL TO DOWN ~~with~~ POWER LINES CAUSING POWER LOSS TO OUR HIGHRISES + DISABLING ELEVATOR SERVICE.

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☑ WASTE WATER PLANT & LIFT STATIONS do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☑ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☑ WASTE WATER PLANT & LIFT STATIONS do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☑ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☑ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☑ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☑ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☑ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☑ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☑ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☑ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Power Lines Down to Tree Branches Falling on them

Assets Vulnerability Survey

Jurisdiction: City of EDWARDSVILLE, FIRE DEPARTMENT
Prepared By: JAMES WHITEFORD
Title: FIRE CHIEF Date: 04/15/2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why?
(Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☒ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☒ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☒ MAIN RADIO TOWER, WATER PUMPS & SEWER LIFT STATIONS do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☒ Streets within the community flood during heavy rain events adversely impacting travel.
- ☒ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☒ HERSHEY WAREHOUSE has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents. BY REDUCING COMMERCE AND TAX REVINUE.
- ☒ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☒ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☒ Other (please specify): MARCH 31, 2023, WIND STORM - MANY TREES DOWN POWER OUTAGE EXPERIENCED BY MANY AREAS OF TOWN

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- [x] Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [x] Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- [x] Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- [x] PRIMARY/ RADIO TOWER / WATER / SEWER do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- [x] If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- [x] Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- [ ] There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- [ ] Unincorporated parts of the County are not covered by storm warning sirens.
- [x] ~~None~~ FEW of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- [x] Tornadoes have the potential to damage the community's water tower impacting service to residents.
- [x] Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- [x] A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- [ ] Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- [ ] Other (please specify): _____

TORNADO 2011 – HOMES OF CENTERGROVE (2/28/2011)
TORNADO 2013 – HERSHY WAREHOUSE & HOMES
TORNADO 2021 – AMAZON WAREHOUSE & HOMES

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☒ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☒ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☒ SEE PREVIOUS PAGES do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☒ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☒ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☒ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☒ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☒ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☒ Severe winter storms create challenges for critical worker travel.
- ☒ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☒ Other (please specify): 2006 ICE STORM - MOST OF TOWN WITHOUT POWER FOR 3-6 DAYS; SEVERAL RESIDENTS W/ C.O. POISONING FROM INAPPROPRIATE GENERATOR USE.

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☒ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☒ ~~None~~ FEW of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☒ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☒ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☒ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☒ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☒ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

TROPICAL DEPRESSION IKE 2008 – FLOODING – BRIDGE WASHOUT @ EAST LAKE DR.
FLOODING RAIN - MAY 2009 - HOMES FLOODED - STREETS IMPASSABLE
FLOODING RAIN - JAN 2016 – WASHED OUT ROAD & POWER TO LARGE APARTMENT COMPLEX ON DEVON CT.
CAUSED LANDSLIDE ON HOUSE IN FOX CREEK

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☒ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☒ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☒ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): FEB. 2023 RP LUMBER FIRE BROUGHT DOWN POWER LINES THAT FED A LARGE PORTION OF THE TOWN. TEMP GOT DOWN TO 2°F PEOPLE HAD TO SHELTER IN THE WILDEY THEATER

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☐ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☐ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☐ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): CONCERN WITH EARTHQUAKES LOCALLY EXTENDS TO UNDER GROUND GAS MAINS (MOST CITY GENERATORS ARE NATURAL GAS), AND UNDER GROUND TRANSMISSION PIPELINE (CRUDE OIL)

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☒ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☒ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☒ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why?
(Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☒ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to ~~critical facilities and systems.~~ RESIDENTAL AREAS & ROADS LIMITING ACCESS FOR EMERGENCY RESPONSE TO AREAS BELOW THE DUNLAP LAKE DAM.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

SEE ATTACHED DAM VULNERABILITY REPORT FOR DUNLAP LAKE

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☒ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: IN LANDSLIDE UNDERMINED APARTMENT BUILDING ON FLORIDA STREET & HOUSE IN FOX CREEK

☐ Other (please specify):

☐ Other (please specify): MARATHON PIPELINE RUPTURE MAR 11, 2022 300,000 GAL CRUDE SPILLED INTO WATERWAY

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☒ Yes ☐ No

If yes, describe the type(s) of damage sustained.

POWER SUPPLY TO THE CITY HAS BEEN LOST ON MANY OCCASIONS DUE TO STRAIGHT LINE WINDS, TORNADOS, DERECHOS, ICE STORMS ETC.

Assets Vulnerability Survey

Jurisdiction: Village of Glen Carbon
Prepared By: Lieutenant N Miller
Title: Lieutenant Date: 09-03-24

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☐ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☐ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☑ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☐ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☐ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☐ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☑ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☑ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☑ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☐ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.) NOT APPLICABLE

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.

☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: N/A

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: City of Collinsville
Prepared By: John Bailot
Title: Fire Chief/Emergency Mgmt.Director Date: _____

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☑ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☑ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☑ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: Power Grid System

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: City of Collinsville
Prepared By: John Bailot
Title: Fire Chief/Emergency Mgmt.Director Date: _____

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
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- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
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- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
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- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
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- ☑ Unincorporated parts of the County are not covered by storm warning sirens.
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- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
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- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☑ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☑ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: Power Grid System

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: Village of Grantfork
Prepared By: Justin Rottmann
Title: Chief of Police Date: 9/5/2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☑ Grantfork Elementary School do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☐ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☐ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☑ Grantfork Elementary School do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☑ Unincorporated parts of the County are not covered by storm warning sirens.
- ☑ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☐ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☑ Grantfork Elementary School do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☑ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☑ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☑ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☑ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: Village of Hamel
Prepared By: Don Grimm
Title: public works Date: 9-23-2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☐ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☐ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☐ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☐ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☑ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☐ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☑ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☐ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☐ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☐ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☐ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☐ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☑ Other (please specify): Levee located along Sewer plant

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☑ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☑ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☑ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☐ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: City of Highland
Prepared By: Chris Straub
Title: Chief Date: 8/20/2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☐ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☐ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☐ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☐ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☐ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☐ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☐ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☑ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☑ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☐ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☐ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☑ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: Village of Livingston
Prepared By: Dale Hendricks
Title: ESDA director Date: 9-19-24

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☑ Residential homes do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☑ residential homes do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☑ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☑ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- [x] During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- [x] Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- [x] residential homes do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- [x] Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [x] Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- [ ] The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- [x] Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- [x] Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- [x] Severe winter storms create challenges for critical worker travel.
- [x] Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☒ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- [x] An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- [x] The community's water transmission mains are vulnerable to the impacts of earthquakes.
- [ ] An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- [x] Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- [ ] An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

- ☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.
- ☐ Other (please specify): _____
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☒ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: City of Collinsville
Prepared By: John Bailot
Title: Fire Chief/Emergency Mgmt.Director Date: _____

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☑ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☑ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☑ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: Power Grid System

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: Village of Marine
Prepared By: Amber Kapp
Title: Clerk Date: 4-24-24

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why?
(Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- [x] Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- [ ] Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- [x] Catholic church used as shelter do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- [x] Streets within the community flood during heavy rain events adversely impacting travel.
- [ ] The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- [ ] Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- [ ] Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- [ ) _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- [x] Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- [x] Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- [ ] Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- [x] Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [x] Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- [x] Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- [ ] _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- [x] If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- [x] Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- [ ] There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- [x] Unincorporated parts of the County are not covered by storm warning sirens.
- [x] None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- [x] Tornadoes have the potential to damage the community's water tower impacting service to residents.
- [x] Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- [ ] A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- [ ] Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- [x] During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- [x] Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- [ ] _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- [x] Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [ ] Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- [ ] The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- [ ] Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- [ ] Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- [ ] Severe winter storms create challenges for critical worker travel.
- [x] Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☒ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☐ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☐ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☒ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

I guess if We Would have an Earthquake.

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why?
(Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- [x] Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- [x] Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- [ ] Other (please specify): _____

_____

- [ ] Other (please specify): _____

_____

I say this b/c we have insurance for it, so I guess we are in an area that is affected.

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☒ Yes ☐ No

If yes, describe the type(s) of damage sustained.

High Winds during thunderstorms have left the town with out electric for a few hours Until Ameren Crews could fix lines.

Assets Vulnerability Survey

Jurisdiction: Village of Maryville
Prepared By: Shane Fulton
Title: Building & Zoning Administrator Date: 4-19-2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☐ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☐ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☐ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☐ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☐ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☐ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☑ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: City of Collinsville
Prepared By: John Bailot
Title: Fire Chief/Emergency Mgmt.Director Date: _____

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☑ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☑ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☑ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: Power Grid System

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: VILLAGE OF ROXANA
Prepared By: ANDREW PENCE
Title: ASST. FIRE CHIEF Date: 6-30-2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why?
(Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- [x] Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- [x] Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- [x] Roxana School Dist do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- [ ] Streets within the community flood during heavy rain events adversely impacting travel.
- [ ] The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- [ ] Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- [ ] Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- [ ] _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- [x] Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- [x] Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- [ ] Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- [x] Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [x] Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- [x] Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- [x] Roxana School Dist do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- [x] If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- [x] Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- [ ] There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- [ ] Unincorporated parts of the County are not covered by storm warning sirens.
- [ ] None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- [x] Tornadoes have the potential to damage the community's water tower impacting service to residents.
- [x] Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- [ ] A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- [ ] Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☑ Roxana school Dist do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☑ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☑ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☑ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: Village of St Jacob
Prepared By: Nick Timmons
Title: Superintendent Public Works Date: 7/3/2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☒ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☒ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☒ 1893 Marine Road Shop (x2) do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☒ Streets within the community flood during heavy rain events adversely impacting travel.
- ☒ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☒ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☒ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☒ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☒ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☒ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☒ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☒ 1893 Maine Road Shop (x2) do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☒ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☒ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☒ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes. Shops?
- ☒ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☒ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☒ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- [x] During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- [x] Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- [x] 1873 Merino Road Shop (x2) do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- [x] Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [x] Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads. (Ice + Drifts)
- [ ] The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- [x] Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- [x] Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- [x] Severe winter storms create challenges for critical worker travel.
- [x] Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☒ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): Is the Activity Center considered a designated Cooling Center?

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☆ ☒ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☒ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): N. Douglas can flood enough to divert traffic through Xtreme Collision due to only 2 storm drains to collect 6 blocks of water.

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☒ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☒ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☐ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☒ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☒ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): Underground Sewer Mains, Wastewater lagoon levees, Wastewater lift stations with Concrete Structures

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☒ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: (Troy Police Department) Troy, City of
Prepared By: Daniel Lipe
Title: Lieutenant Date: 9/3/24

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☑ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☐ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☐ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☑ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☐ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☑ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☑ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☑ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: City of Collinsville
Prepared By: John Bailot
Title: Fire Chief/Emergency Mgmt.Director Date: _____

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☑ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☑ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☑ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: Power Grid System

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: WOOD RIVER, CITY OF

Prepared By: NATHAN KAMP

Title: DEPUTY CHIEF, WRFD Date: 7-1-24

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- [x] Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- [x] Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- [ ) _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- [ ] Streets within the community flood during heavy rain events adversely impacting travel.
- [ ] The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- [ ] Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- [ ] Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- [ ) _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- [ ] Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- [x] Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- [x] Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [x] Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- [x] Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- [ ] _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- [ ] If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- [x] Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- [ ] There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- [ ] Unincorporated parts of the County are not covered by storm warning sirens.
- [ ] None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- [x] Tornadoes have the potential to damage the community's water tower impacting service to residents.
- [x] Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- [ ] A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- [ ] Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- [x] During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- [x] Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- [ ] _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- [x] Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [x] Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- [ ] The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- [x] Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- [x] Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- [x] Severe winter storms create challenges for critical worker travel.
- [x] Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☒ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☒ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- [x] An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- [x] The community's water transmission mains are vulnerable to the impacts of earthquakes.
- [x] An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- [x] Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- [ ] An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- [x] The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- [x] If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- [ ] Flooding has led to levee failures in the past, impacting homes and businesses.
- [ ] Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- [x] The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- [x] Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- [ ] Other (please specify): _____

_____

- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: Village of Worden
Prepared By: Walter D. Blotevogel PE, PLS
Title: Village Engineer Date: July 24, 2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☑ Most sanitary sewer pump stations do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☑ Sanitary sewer pump stations has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☐ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why?
(Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☑ Most sanitary sewer pump stations do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☑ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☑ Most sanitary sewer pump stations do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☑ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☑ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☑ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☑ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☑ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☐ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☑ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Power outage due to sever weather occures two or three times per year. This causes problems for those on life support units. On one occassion the outage lasted several days resulting in lost food and multiple problems for the old and infirmed who had to seek shelter elsewhere.

Assets Vulnerability Survey

Jurisdiction: Collinsville Township Road District

Prepared By: Kathy Trucano-Hoelscher

Title: Highway Commissioner Date: 9/06/2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☐ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☐ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☐ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☐ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☐ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☑ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☑ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☐ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☐ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: Edwardsville Township
Prepared By: Danny Picarella & Carrie Farrell
Title: Highway Commissioner / Administrator Date: 7/24

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☐ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☐ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☐ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☐ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☐ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☑ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☐ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☑ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☐ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☐ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: Leef Township
Prepared By: Kevin Klutz
Title: Road Commissioner Date: _____

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- [x] Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- [x] Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- [x] Leef Township do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- [x] Streets within the community flood during heavy rain events adversely impacting travel.
- [ ] The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- [x] Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- [x] Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- [ ] _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- [x] Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- [x] Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- [x] Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [x] Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- [x] Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- [x] Leef Township do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- [ ] If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- [x] Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- [x] There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- [x] Unincorporated parts of the County are not covered by storm warning sirens.
- [x] None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- [x] Tornadoes have the potential to damage the community's water tower impacting service to residents.
- [ ] Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- [ ] A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- [ ] Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- [x] During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- [x] Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- [x] Leef Township do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- [x] Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [x] Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- [x] The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- [x] Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- [x] Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- [x] Severe winter storms create challenges for critical worker travel.
- [x] Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- [x] The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- [x] The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- [x] None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- [x] During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- [ ] Other (please specify): _____

_____

Floods (riverine & flash)

- [ ] The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- [ ] The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- [x] Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- [x] Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- [x] Flooding can close roads and impact the District's ability to transport students safely.
- [ ] Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☒ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☒ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☒ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☒ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☐ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☐ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: Nameoki Township
Prepared By: Chad Juneau c/o Juneau Associates Inc. P.C.
Title: Township Engineers Date: 1/17/2025

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☑ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☑ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☐ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☑ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☑ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☑ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☐ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☑ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Tornadoes have caused damage to several buildings and warehouses within the Village corporate limits. The damages include building collapses, roof damage, and siding damage.

Assets Vulnerability Survey

Jurisdiction: Alton CUSD #11
Prepared By: David McClintock
Title: Facility Director Date: 3-25-24

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☑ Only High School has – Rest do – do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☑ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☑ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☑ Power Poles & Trees has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☑ Other (please specify): Roof damage from high winds and storms

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☑ Elementary & Middle Schools do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☑ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☑ Several Schools do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☑ Other (please specify): Lots of Hills that the Road System is on causing slick Problems

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☑ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☑ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☑ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☑ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☑ Other (please specify): Alton's on the River Mississippi Flooding Cans shut down Main Travel Routes

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☑ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☑ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☑ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☑ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☑ Other (please specify): Some of the business district would be impacted
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☑ Other (please specify): We have A Lock & dam here in Alton

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☑ Other (please specify): Huge sink hole At City Park took soccer Field.
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☑ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☑ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Wall Failures in Basement & Retaining

lighting Strike taking out Equipment

Roof damage From Winds

Sanitary line Fractured

Assets Vulnerability Survey

Jurisdiction: Bethalto CUSD8 - School District
Prepared By: Barrett Deist / Bill Stratton
Title: CSBO / Dir. Maint/Trans Date: 5/10/24

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- [x] Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- [x] Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- [x] All buildings/schools do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- [ ] Streets within the community flood during heavy rain events adversely impacting travel.
- [ ] The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- [ ] Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- [ ] Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- [ ) _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- [x] Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- [x] Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- [ ] Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- [x] Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [x] Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- [x] Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- [x] All buildings/Schools do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- [x] If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- [x] Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- [ ] There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- [ ] Unincorporated parts of the County are not covered by storm warning sirens.
- [ ] None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- [ ] Tornadoes have the potential to damage the community's water tower impacting service to residents.
- [x] Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- [ ] A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- [ ] Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- [ ] Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- [x] During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- [x] Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- [x] All buildings / schools do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- [x] Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [ ] Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- [ ] The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- [ ] Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- [ ] Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- [ ] Severe winter storms create challenges for critical worker travel.
- [ ] Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☒ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☐ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☐ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☐ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: City of Collinsville
Prepared By: John Bailot
Title: Fire Chief/Emergency Mgmt.Director Date: _____

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☑ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☑ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☑ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: Power Grid System

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: ECUSD#7
Prepared By: Patrick Shelton
Title: Superintendent Date: 9-23-2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and dela
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☑ Edwardsville High School, Success Academy, Sports Complex, Columbus, Hamel, Leclaire, Midway, Nelson, and Woodland Elementary do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☐ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☑ Edwardsville High School, Success Academy, Sports Complex, Columbus, Hamel, Leclaire, Midway, Nelson, and Woodland Elementary do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☑ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☐ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☐ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☑ Edwardsville High School, Success Academy, Sports Complex, Columbus, Hamel, Leclaire, Midway, Nelson, and Woodland Elementary do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☑ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☑ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☑ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☐ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☐ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☐ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: Madison County ROE (Center for Educational Opportunities)
Prepared By: Tricia Blackard
Title: Regional Assistant Superintendent Date: 9-3-24

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☑ CEO school do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☐ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☐ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☐ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☐ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☐ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☐ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☑ CEO school do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☐ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☐ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☐ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☐ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☐ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☐ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☐ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☑ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☐ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: Marquette Catholic High School (MCHS)
Prepared By: Timothy Harmon
Title: Principal Date: 07/16/2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- [x] Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- [x] Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- [x] MCHS do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- [x] Streets within the community flood during heavy rain events adversely impacting travel.
- [ ] The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- [ ] Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- [ ] Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- [ ] _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- [x] Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- [x] Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- [ ] Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why?
(Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- [X] Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [X] Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- [X] Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- [X] MCHS do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- [ ] If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- [ ] Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- [ ] There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- [ ] Unincorporated parts of the County are not covered by storm warning sirens.
- [ ] None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- [ ] Tornadoes have the potential to damage the community's water tower impacting service to residents.
- [ ] Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- [ ] A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- [ ] Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why?
(Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- [X] During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- [X] Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- [X] MCHS do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- [X] Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [X] Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- [X] The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- [X] Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- [X] Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- [X] Severe winter storms create challenges for critical worker travel.
- [X] Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- [X] Other (please specify): The very hilly roads of Alton make ice storms especially dangerous for travel & first responders to respond.

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- [x] The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- [x] The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- [ ] None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- [ ] During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- [ ] Other (please specify): _____

_____

Floods (riverine & flash)

- [x] The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- [x] The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- [x] Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- [x] Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- [x] Flooding can close roads and impact the District's ability to transport students safely.
- [x] Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☒ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☒ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☒ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☒ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☒ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☒ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☒ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☒ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☒ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☑ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☒ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☒ Other (please specify): Has potential to impact Community events, parks, & activities
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☒ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☒ Yes ☐ No

If yes, describe the type(s) of damage sustained.

- Storms have damaged electrical & communication networks several times.
- Flooding impacts worker & student travel & safety w/ water
- Heavy Rains have caused erosion & minor sinkhole issues in grounds & streets around school.

Assets Vulnerability Survey

Jurisdiction: Roxana Community Unit School Dist. #1
Prepared By: Tim Dyer
Title: Dir. of Bldgs + Grounds Date: 7/8/2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☑ Roxana Schools do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☑ Roxana Schools do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☑ Roxana Schools do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☑ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☑ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☑ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Electrical and/or communication lines have been damaged

Assets Vulnerability Survey

Jurisdiction: City of Collinsville
Prepared By: John Bailot
Title: Fire Chief/Emergency Mgmt.Director Date: _____

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☑ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☑ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☑ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: Power Grid System

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: Wood River-Hartford School District #15
Prepared By: Patrick Anderson
Title: Superintendent Date: September 3, 2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☐ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☐ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☐ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☐ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☐ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☐ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☑ Wood River Hartford School District do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☐ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☐ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☐ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☐ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☐ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☑ Wood River Hartford School District do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☐ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☐ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☐ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☐ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☐ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☐ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☐ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: Southern Illinois University Edwardsville
Prepared By: Chief Dave Goodwin, Paul Lega
Title: Chief of Police, Manager EH&S Date: 07-22-2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☑ We have several buildings that do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☑ Some buildings has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☑ We have several buildings that do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☐ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☐ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☑ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☑ We have several buildings that do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☑ Other (please specify): Water pipes freezing and causing flooding in critical buildings University spaces

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☑ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☑ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☑ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☑ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☑ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☑ Other (please specify): University draws water from surface source to chill water lines

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☑ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☑ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☑ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☑ Other (please specify): No part of the university is undermined

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☑ Other (please specify): Unknown if this impacts University Resources.
Landslide could take place if someone was not using "Trench Box" during construction

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☑ Yes ☐ No

If yes, describe the type(s) of damage sustained.

3/14/24- Infrastructure Roof Damage- Est Damage $520,000.00

3 building Roof damage, 3 Buildings Flooded spaces, 2 roadways flooded, Power Outages, hail damaged University vehicles.

12/2023 Extreme Cold- Pipes frozen at Morris University Center.

12/2021- Amazon Tornado- Communications and extensive power outages affecting critical infrastructure.

02/2024- Snow/ Ice Storm- affected roadways and resulted in cancellation of classes

Assets Vulnerability Survey

Jurisdiction: GLEN CARBON FPD
Prepared By: JASON WHITTAKER
Title: FIRE CHIEF Date: 7-1-2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☐ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☐ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☐ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☐ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☐ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☐ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☐ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: Olive Fire District
Prepared By: Dale Hendricks
Title: Asst. Chief Date: 9-18-24

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☒ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☒ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☒ Lift Stations do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☒ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☒ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☒ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☒ Oil field Storage tanks has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☒ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☒ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- [x] Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [x] Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- [x] Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- [x] Lift Stations do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- [x] If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- [x] Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- [x] There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- [x] Unincorporated parts of the County are not covered by storm warning sirens.
- [x] None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- [x] Tornadoes have the potential to damage the community's water tower impacting service to residents.
- [x] Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- [ ] A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- [ ] Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- [x] During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- [x] Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- [x] Lift Stations do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- [x] Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- [x] Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- [x] The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- [x] Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- [x] Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- [x] Severe winter storms create challenges for critical worker travel.
- [x] Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☒ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☒ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☒ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☒ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- [x] An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- [x] The community's water transmission mains are vulnerable to the impacts of earthquakes.
- [ ] An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- [ ] Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- [ ] An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- [ ] Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- [x] Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- [x] Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- [x] Other (please specify): There are multiple mine shafts that run through the fire district.
- [ ] Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☒ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Ice Storm disrupted power for several days.

Assets Vulnerability Survey

Jurisdiction: South Roxana Fire Prot. Dist.
Prepared By: Tim Dyer
Title: Fire Chief Date: 7/8/2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☑ Most buildings do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☑ Most buildings do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☑ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☑ Most buildings do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☑ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☑ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☑ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☑ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Electrical & communication lines

Assets Vulnerability Survey

Jurisdiction: Troy Fire Proection District
Prepared By: Darren Davis
Title: Fire Chief Date: 02-06-2025

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☑ Schools, Churches, Hotels do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☐ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☑ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☑ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☑ Schools, Churches and Hotels do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☑ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☑ Schools, Churches and Hotels do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☑ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☑ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☑ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☑ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☐ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☐ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☑ Other (please specify): We have no ~~leveses~~ levees in the district
- ☐ Other (please specify): _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: City of Collinsville
Prepared By: John Bailot
Title: Fire Chief/Emergency Mgmt.Director Date: _____

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☑ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☑ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☑ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: Power Grid System

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☐ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: (Madison County) OSF Saint Anthony's Health Center
Prepared By: Traci Bromaghim
Title: Director of Emergency Services Date: 9/3/24

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☐ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☐ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☐ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☐ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☐ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☐ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☐ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☐ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☐ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☑ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☐ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☐ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☐ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☐ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☐ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☑ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: Metro East Sanitary District
Prepared By: Mike Hordstown
Title: Executive Director Date: 7/15/2024

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☐ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☐ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☐ Streets within the community flood during heavy rain events adversely impacting travel.
- ☐ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☐ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☐ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☐ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☐ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☐ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☐ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☐ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☐ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☐ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☐ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☐ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☐ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☐ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☐ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☐ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☐ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☐ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☐ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☐ Severe winter storms create challenges for critical worker travel.
- ☐ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☐ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☐ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☒ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☒ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☐ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☐ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☐ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☐ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☑ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☑ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☑ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☐ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☐ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☐ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: _____

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☑ No

If yes, describe the type(s) of damage sustained.

Assets Vulnerability Survey

Jurisdiction: City of Collinsville
Prepared By: John Bailot
Title: Fire Chief/Emergency Mgmt.Director Date: _____

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Storms (thunderstorms with damaging winds, hail, lightning, & heavy rains)

- ☑ Thunderstorms with damaging winds can cause tree limbs and debris to block roadways, impacting travel and delaying emergency response times.
- ☑ Severe storms with damaging winds have downed power and communication lines impacting service to critical facilities and infrastructure as well as residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe storms.
- ☑ Streets within the community flood during heavy rain events adversely impacting travel.
- ☑ The sanitary sewer system is vulnerable to water infiltration during heavy rain events, which can overwhelm the system and lead to backups.
- ☐ Rural gravel roads are prone to washouts during heavy rain events, which impacts travel and response times of emergency responders.
- ☐ Heavy rain events have washed out roads and culverts causing imminent danger to the traveling public and potential long-term road closures.
- ☐ _____ has been struck by lightning causing significant damage and rendering it inoperable, which increases vulnerability for residents.
- ☑ Lightning strikes have the ability to render communication and computer equipment inoperable impacting critical systems.
- ☑ Thunderstorms with damaging winds have the potential to down power lines causing a loss of power and impacting critical systems, such as refrigerators/freezers, HVAC, computers and communications, necessary to maintain operations at the school(s).
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Tornadoes

- ☑ Tornadoes have the ability to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Utility poles and lines have the potential to be damaged during tornadoes, which can cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Tornadoes have the potential to disrupt emergency communication systems within the community, impacting emergency response services.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by tornadoes.
- ☑ If a tornado were to touch down in the community, residents, including students at the school, would be vulnerable because there are no community safe rooms to shelter in.
- ☑ Residents, especially the those who reside in manufactured housing units, are vulnerable to injury during a tornado because there are no community safe rooms within the jurisdiction.
- ☐ There are no storm warning sirens in the jurisdiction to alert residents of an impending tornado.
- ☑ Unincorporated parts of the County are not covered by storm warning sirens.
- ☐ None of the community's critical facilities or infrastructure systems have been hardened to withstand tornadoes.
- ☑ Tornadoes have the potential to damage the community's water tower impacting service to residents.
- ☑ Radio towers have the potential to be damaged by tornadoes. The loss of communications would limit the ability to quickly respond to emergency calls following an event.
- ☑ A tornado has the potential to disrupt power to the Medical Center impacting patient care.
- ☐ Park patrons are vulnerable to tornadoes because the District does not have the equipment to notify individuals of incoming events.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Severe Winter Storms (snow & ice)

- ☑ During severe winter storms, ice and high winds can down power lines and cause power outages that affect critical facilities, communications, and service to residents.
- ☑ Severe winter storms have the potential to cause power loss to key facilities and infrastructure, which would impact service to residents.
- ☐ _____ do not have emergency backup generators and therefore are vulnerable to potential power losses caused by severe winter storms.
- ☑ Ice storms have the potential to down trees and tree branches impacting power lines and blocking roadways impeding travel and access of emergency responders.
- ☑ Severe winter storms have the potential to impede travel of emergency responders, especially on rural roads.
- ☑ The jurisdiction is in need of additional designated emergency shelter to protect residents, especially elderly, unhoused, and low income individuals, during severe winter storms.
- ☑ Heavy snowstorms and blowing and drifting snow make it difficult to clear the jurisdiction roads immediately, which can limit residential travel and emergency response times.
- ☑ Roads and bridges covered with ice from severe winter storms cause accidents and impact emergency response times.
- ☑ Severe winter storms create challenges for critical worker travel.
- ☑ Electrical transmission and communication lines are vulnerable to damage from severe winter storms and ice storms.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Excessive Heat

- ☑ The community does not have any designated cooling centers to protect residents, especially the elderly and young children.
- ☑ The community is in need of additional cooling centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ None of the designated cooling centers have backup generators that would allow them to remain operational if power was lost during an excessive heat event.
- ☑ During excessive heat events, brownouts and blackouts can impact power to critical facilities affecting services to residents.
- ☐ Other (please specify): _____

_____

Floods (riverine & flash)

- ☐ The community's drinking water facility is located in the base floodplain and vulnerable to flooding.
- ☐ The community's wastewater system is vulnerable to water infiltration during flood events, which can overwhelm the system and lead to backups.
- ☐ Recent flood events have caused overtopping and washouts of roadways and culverts in the jurisdiction.
- ☐ Roadways in the jurisdiction flood causing adverse travel and delays in emergency response times.
- ☐ Flooding can close roads and impact the District's ability to transport students safely.
- ☑ Major flood events can damage the levees within the jurisdiction adversely impacting their ability to protect the people and infrastructure located behind them.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Extreme Cold

- ☐ The community does not have any designated warming centers to protect residents, especially the elderly and young children.
- ☐ The community is in need of additional warming centers to protect residents, especially elderly, unhoused, and low income individuals.
- ☑ Extreme cold events have the potential to cause water line and main breaks impacting service to residents.
- ☐ Electrical substation equipment has failed during extreme cold events impacting service to residents and critical infrastructure.
- ☐ Other (please specify): _____

_____

Drought

- ☐ The community obtains its drinking water from a surface water source. A prolonged drought has the ability to disrupt service to residents.
- ☐ The community's drinking water supply is at risk to a prolonged drought, potentially impacting the jurisdiction's ability to fight fires.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Earthquakes

- ☑ An earthquake can cause damage to bridges, which would render them unusable and impact travel as well as limit access to certain locations.
- ☑ The community's water transmission mains are vulnerable to the impacts of earthquakes.
- ☐ An earthquake has the potential to disrupt the water table under the community, impacting drinking water service to residents.
- ☑ Earthquakes have the potential to impact radio towers serving the community. The loss of communications would limit the community's ability to quickly respond to emergency calls following an event.
- ☐ An earthquake could damage the liners of the landfill and cause potential leaks damaging the lines to the gas and leachate wells.
- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Levee Failures

- ☑ The levee system is at risk of a breach or overtopping event due to flooding. A major roadway is located in the levee protected floodplain as are several businesses, and the District's pump station.
- ☑ If a levee overtopping event were to occur, road closures would occur impacting travel of emergency responders.
- ☑ Flooding has led to levee failures in the past, impacting homes and businesses.
- ☐ Portions of the levee system are not accredited by FEMA and therefore do not meet the National Flood Insurance Program requirements to reduce the base flood hazards in these areas.
- ☐ The community's drinking water wells are located in the levee-protected flood zone and potentially vulnerable to contamination from levee breach flooding.
- ☐ Much of the community's business district is protected by a levee system that would be adversely impacted in the event of a levee failure.
- ☐ Other (please specify): _____

  _____
- ☐ Other (please specify): _____

  _____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Dam Failures

☐ If a dam failure occurs, the water surge would inundate downstream communities causing substantial damage to critical facilities and systems.

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Mine Subsidence

- ☑ Mine subsidence has the potential to damage portions of the community, impacting vital services to residents such as drinking water and sanitary waste disposal.
- ☑ Mine subsidence has the potential to damage the community's water transmission lines, impacting service all residents.
- ☐ Other (please specify): _____

_____

- ☐ Other (please specify): _____

_____

Assets Vulnerability Survey

What asset(s) do you feel are vulnerable to natural hazards in your jurisdiction and why? (Please check the statements that you feel apply to your jurisdiction and complete/add statements to fit your situation.)

Landslides

☑ The jurisdiction includes areas that have steep slopes that are vulnerable to landslides. These landslides have the potential to impact critical infrastructure and systems, including: Power Grid System

☐ Other (please specify): _____

_____

☐ Other (please specify): _____

_____

Assets Vulnerability Survey

Have any structures or systems in your jurisdiction been damaged by a natural hazard event? (i.e., critical facilities, infrastructure, community lifelines, electrical or communications networks, etc.)

☐ Yes ☐ No

If yes, describe the type(s) of damage sustained.

APPENDIX J

Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
10/09/1966	5:00 PM	East Alton	n/a	n/a	n/a	n/a	n/a	
10/24/1967	11:10 AM	Alton	75 kts	n/a	n/a	n/a	n/a	
07/11/1969	2:00 AM	Edwardsville Mitchell	n/a	n/a	n/a	n/a	n/a	
06/20/1970	3:30 PM	Alton	60 kts	n/a	n/a	n/a	n/a	
06/20/1970	3:40 PM	Alton	n/a	n/a	n/a	n/a	n/a	
07/04/1971	7:31 PM	Alton	50 kts	n/a	n/a	n/a	n/a	
06/09/1972	7:00 PM	Alton	65 kts	n/a	n/a	n/a	n/a	
03/14/1973	1:50 AM	Highland	n/a	n/a	n/a	n/a	n/a	
11/15/1973	4:30 AM	Alton	n/a	n/a	n/a	n/a	n/a	Winds blew down power lines and trees and damaged homes.
05/30/1974	6:00 AM	Roxana	n/a	n/a	n/a	n/a	n/a	
06/09/1974	2:30 AM	Collinsville	n/a	n/a	n/a	n/a	n/a	
05/19/1975	4:20 PM	Madison	n/a	n/a	n/a	n/a	n/a	
05/30/1975	3:05 PM	Alton	n/a	n/a	n/a	n/a	n/a	
07/05/1975	10:00 PM	Alton	61 kts	n/a	n/a	n/a	n/a	
07/31/1976	12:30 AM	Troy	n/a	n/a	n/a	n/a	n/a	
05/30/1977	7:20 PM	Troy	n/a	n/a	n/a	n/a	n/a	
07/17/1977	6:35 PM	Alton	65 kts	n/a	n/a	n/a	n/a	
08/23/1977	10:00 AM	Edwardsville	n/a	n/a	n/a	n/a	n/a	
06/30/1978	2:40 PM	Edwardsville	n/a	n/a	n/a	n/a	n/a	
08/20/1979	5:05 PM	Marine^	n/a	n/a	n/a	n/a	n/a	
08/20/1979	5:30 PM	Collinsville	n/a	n/a	n/a	n/a	n/a	
08/10/1980	8:25 PM	Worden	n/a	n/a	n/a	n/a	n/a	
09/01/1980	2:00 AM	Highland	n/a	n/a	n/a	n/a	n/a	
09/06/1980	8:10 PM	Troy	n/a	n/a	n/a	n/a	n/a	
09/19/1980	5:47 PM	Bethalto	65 kts	n/a	n/a	n/a	n/a	

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
04/03/1981	11:05 PM	Granite City	n/a	n/a	n/a	n/a	n/a	
07/20/1981	3:37 PM	Edwardsville	n/a	n/a	n/a	n/a	n/a	
10/05/1981	5:43 PM	Collinsville	n/a	n/a	n/a	n/a	n/a	
11/26/1981	1:20 PM	Maryville	50 kts	n/a	n/a	n/a	n/a	
03/12/1982	9:30 PM	Maryville	n/a	n/a	n/a	n/a	n/a	
07/21/1982	3:10 PM	Bethalto	52 kts	n/a	n/a	n/a	n/a	
07/21/1982	3:35 PM	Hartford	52 kts	n/a	n/a	n/a	n/a	
07/21/1982	4:00 PM	Hartford	52 kts	n/a	n/a	n/a	n/a	
07/21/1982	4:15 PM	Collinsville	n/a	n/a	n/a	n/a	n/a	
09/14/1982	1:45 PM	Edwardsville	53 kts	n/a	n/a	n/a	n/a	
04/27/1983	7:00 PM	Highland	51 kts	n/a	n/a	n/a	n/a	
06/27/1983	8:00 PM	Edwardsville	n/a	n/a	n/a	n/a	n/a	
08/22/1983	3:42 PM	Fosterburg	52 kts	n/a	n/a	n/a	n/a	
03/15/1984	6:55 PM	Edwardsville	61 kts	n/a	n/a	n/a	n/a	
11/09/1984	4:18 PM	Highland	n/a	n/a	n/a	n/a	n/a	
04/23/1985	5:00 PM	Wood River	n/a	n/a	n/a	n/a	n/a	
09/11/1986	7:55 AM	Edwardsville	61 kts	n/a	n/a	n/a	n/a	
09/29/1986	3:30 PM	New Douglas Alhambra^ Hamel^ Highland Edwardsville	58 kts	n/a	n/a	n/a	n/a	
07/06/1987	3:25 PM	Edwardsville	52 kts	n/a	n/a	n/a	n/a	Winds blew down power lines and trees and damaged homes in Highland.
07/06/1987	3:55 PM	Edwardsville^	n/a	n/a	n/a	n/a	n/a	
08/03/1987	7:05 PM	Godfrey	n/a	n/a	n/a	n/a	n/a	

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
04/05/1988	7:00 PM	Edwardsville	50 kts	n/a	n/a	n/a	n/a	
05/08/1988	5:10 PM	Edwardsville	n/a	n/a	n/a	n/a	n/a	
06/08/1988	4:00 PM	Madison	55 kts	n/a	n/a	n/a	n/a	
06/08/1988	4:25 PM	Edwardsville	52 kts	n/a	n/a	n/a	n/a	
06/08/1988	5:45 PM	Edwardsville^	n/a	n/a	n/a	n/a	n/a	
04/26/1989	10:06 PM	Godfrey	61 kts	n/a	n/a	n/a	n/a	
06/01/1989	2:25 PM	Edwardsville^	n/a	n/a	n/a	n/a	n/a	
11/15/1989	5:03 AM	Edwardsville	58 kts	n/a	n/a	n/a	n/a	
05/12/1990	5:00 PM	Alton	n/a	n/a	n/a	n/a	n/a	
06/02/1990	2:30 PM	Edwardsville	n/a	2	n/a	n/a	n/a	Two students had to swim to shore after their boat was capsized on Tower Lake.
06/22/1990	8:20 PM	Livingston	52 kts	n/a	n/a	n/a	n/a	
10/03/1990	4:20 PM	Collinsville	n/a	n/a	n/a	n/a	n/a	
11/26/1990	7:00 PM	Roxana Wood River	n/a	n/a	n/a	n/a	n/a	
06/15/1991	6:40 PM	Edwardsville^	n/a	n/a	n/a	n/a	n/a	
06/15/1991	7:37 PM	Hamel	n/a	n/a	n/a	n/a	n/a	
06/15/1991	7:42 PM	Maryville	n/a	n/a	n/a	n/a	n/a	
11/29/1991	10:00 PM	Alton East Alton Wood River Roxana Edwardsville	n/a	n/a	n/a	n/a	n/a	
04/20/1992	4:15 PM	Roxana Wood River	n/a	n/a	n/a	n/a	n/a	
07/02/1992	7:34 PM	Bethalto	n/a	n/a	n/a	n/a	n/a	

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
07/02/1992	7:37 PM	Alhambra	n/a	n/a	n/a	n/a	n/a	
09/07/1992	9:48 PM	Bethalto	n/a	n/a	n/a	n/a	n/a	
01/04/1993	3:50 AM	Fosterburg	n/a	n/a	n/a	$50,000	n/a	
08/23/1993	5:50 PM	Granite City Godfrey^	n/a	n/a	n/a	$500	n/a	Winds blew off part of a home's roof.
09/02/1993	3:02 PM	Alhambra	n/a	n/a	n/a	$500	n/a	Winds blew down several large trees in Granite City. Minor street flooding occurred and winds blew down large trees in the Godfrey area.
04/15/1994	4:35 AM	Highland	n/a	n/a	n/a	$50,000	n/a	Winds blew down numerous large trees.
06/07/1994	1:55 PM	Godfrey	n/a	n/a	n/a	$500	n/a	A billboard sign built to withstand wind gust to 60 mph was blown over. Numerous trees in the area were knocked down.
06/23/1994	5:00 PM	East Alton	52 kts	n/a	n/a	$6,500	n/a	Winds blew down several large trees.
06/23/1994	5:20 PM	Worden Holiday Shores	n/a	n/a	n/a	$5,000	n/a	Winds snapped off 6 to 8 inch diameter tree limbs and blew down power lines.
11/05/1994	3:55 PM	Alton Holiday Shores	n/a	n/a	n/a	$300	n/a	Winds blew down trees and power lines from Worden to Holiday Shores.
11/20/1994	7:15 PM	Godfrey Fosterburg	n/a	n/a	n/a	$1,000	n/a	Winds blew down large trees and power lines between Alton and Holiday Shores.
11/21/1994	12:12 AM	Alton Wood River	n/a	n/a	n/a	$500	n/a	Winds knocked down trees and power lines across much of northern Madison County, especially between Godfrey and Fosterburg.
05/16/1995	5:10 AM	Granite City	n/a	n/a	n/a	$200	n/a	***This event was part of a federally-declared disaster (Declaration #1053)*** Winds blew down numerous large trees and caused scattered power outages.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
05/16/1995	8:23 PM	Alton	n/a	n/a	n/a	$1,400	n/a	***This event was part of a federally-declared disaster (Declaration #1053)*** Winds knocked down several large trees.
05/16/1995	8:30 PM	East Alton	n/a	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #1053)*** Winds blew down power lines and power poles.
05/16/1995	8:55 PM	Edwardsville	n/a	n/a	n/a	$200	n/a	***This event was part of a federally-declared disaster (Declaration #1053)*** Winds snapped off tree limbs up to 5 inches in diameter.
05/16/1995	9:06 PM	Marine	n/a	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #1053)*** Winds blew down several large trees and limbs along IL Rte. 159.
06/08/1995	6:10 AM	Godfrey	n/a	n/a	n/a	$200	n/a	***This event was part of a federally-declared disaster (Declaration #1053***) Winds blew down power lines causing power outages.
06/08/1995	6:12 AM	Alton	n/a	n/a	n/a	$266,000	n/a	***This event was part of a federally-declared disaster (Declaration #1053)*** Winds knocked down large tree limbs and power lines.
06/10/1995	1:34 AM	Granite City	n/a	n/a	n/a	$200	n/a	***This event was part of a federally-declared disaster (Declaration #1053)*** 'Winds blew large trees down, demolishing a bandstand and heavily damaging at least 3 homes.
05/25/1996	6:40 PM	Edwardsville Glen Carbon Maryville Collinsville	55 kts	n/a	n/a	$15,000	n/a	Winds blew down numerous large trees.

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1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
06/17/1996	2:15 PM	Edwardsville	52 kts	n/a	n/a	$10,000	n/a	Winds downed trees and power lines.
07/19/1996	6:45 PM	Granite City Pontoon Beach	55 kts	n/a	n/a	n/a	n/a	Winds blew down trees and power lines, mainly across the southern portion of the City. Falling trees caused roof damage to a few homes. 5,400 electric customers were without power for a while after the storm.
07/19/1996	7:25 PM	Livingston^	55 kts	n/a	n/a	n/a	n/a	Winds knocked down power lines along IL Rte. 3 in Granite City. Winds blew down trees and power lines in Pontoon Beach.
10/22/1996	1:10 PM	Madison	50 kts	n/a	n/a	n/a	n/a	Winds damaged some highway signs along I-55.
04/30/1997	1:45 PM	Highland	52 kts	n/a	n/a	n/a	n/a	Winds blew down trees and power lines across the City.
05/21/1998	12:35 PM	Fosterburg	55 kts	n/a	n/a	n/a	n/a	Winds blew down trees and power lines in the area.
05/21/1998	12:45 PM	Troy	55 kts	n/a	n/a	n/a	n/a	Winds downed trees and a few power poles.
05/23/1998	5:55 PM	Wood River	51 kts	n/a	n/a	n/a	n/a	Winds blew down trees and a few power poles.
06/12/1998	4:20 PM	Williamson	52 kts	n/a	n/a	n/a	n/a	Winds blew trees down.
06/12/1998	4:25 PM	Livingston^	60 kts	n/a	n/a	n/a	n/a	Winds downed trees and power lines.
06/12/1998	5:27 PM	Glen Carbon	52 kts	n/a	n/a	n/a	n/a	Winds damaged some highway signs along I-55.
06/14/1998	6:30 AM	Wood River Roxana Godfrey Alton Bethalto	80 kts	n/a	n/a	n/a	n/a	Winds downed some power lines.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

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Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
06/14/1998	6:35 PM	Collinsville	65 kts	n/a	n/a	n/a	n/a	Most damage was to trees and power lines, with some scattered structural damage. More than 100,000 customers were without electricity, some for 5 days. Two, 138,000-volt transmissions lines serving part of the Alton/Godfrey area were knocked down. Hundreds of major power distribution lines and power poles were also downed. In Godfrey, a church completely lost its roof, 5 homes lost parts of their roofs, the Lewis & Clark Elementary School lost part of its roof, and vehicles damaged by flying debris.
07/22/1998	5:48 PM	Edwardsville Troy Marine St. Jacob	58 kts	n/a	n/a	n/a	n/a	Winds downed several trees and power lines, mainly on the north side of the City.
07/22/1998	7:13 PM	Granite City Mitchell Edwardsville	55 kts	n/a	n/a	n/a	n/a	Winds downed trees, utility lines and caused minor damage to roofs in the area. In St. Jacob, falling trees damaged a couple of vehicles.
08/31/1998	11:10 AM	Edwardsville	50 kts	n/a	n/a	n/a	n/a	Winds downed some trees and power lines.
11/10/1998	4:20 AM	Alton	52 kts	n/a	n/a	n/a	n/a	Winds downed some trees, blocking a few streets.
11/10/1998	4:40 AM	Edwardsville	52 kts	n/a	n/a	n/a	n/a	Winds damaged a couple of utility poles.
11/10/1998	4:50 PM	New Douglas^	52 kts	n/a	n/a	n/a	n/a	Winds downed some large tree limbs and caused power outages.
02/11/1999	3:15 PM	St. Jacob^	55 kts	n/a	n/a	n/a	n/a	A communication tower was blown over near the Village.
04/08/1999	9:12 PM	New Douglas	59 kts	n/a	n/a	n/a	n/a	Winds damaged some outbuildings near the Village.
06/01/1999	6:45 PM	Alton	50 kts	n/a	n/a	n/a	n/a	Winds damaged some roofs.
06/01/1999	7:00 PM	Godfrey	50 kts	n/a	n/a	n/a	n/a	Winds blew some trees down.
06/04/1999	5:35 PM	Godfrey	55 kts	n/a	n/a	n/a	n/a	Winds blew down trees and power lines.
06/04/1999	5:40 PM	Edwardsville	55 kts	n/a	n/a	n/a	n/a	Winds blew down trees and numerous power lines.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

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Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
07/09/1999	6:35 PM	Highland	55 kts	n/a	n/a	$50,000	n/a	Winds blew down trees and numerous power lines.
07/27/1999	6:05 AM	Wood River Roxana Granite City	60 kts	n/a	n/a	$600,000	n/a	Winds downed trees and power lines across much of the City. Falling trees and large limbs caused roof damage to a couple of homes and damaged some vehicles. A business lost a 20' x 40' section of its roof.
08/12/1999	11:20 PM	Pontoon Beach	60 kts	n/a	n/a	$50,000	n/a	Winds downed trees and power lines across the area. In Granite City, most of the damage occurred at a marine dealership where the roof was torn off, windows broken and a two-story brick storage building was destroyed – damage was estimated at $500,000.
08/12/1999	11:30 PM	Troy	60 kts	n/a	n/a	n/a	n/a	Winds damaged 2 mobile homes.
05/22/2000	6:30 PM	Godfrey	55 kts	n/a	n/a	n/a	n/a	Winds downed trees and power lines.
06/14/2000	11:40 AM	Highland	55 kts	n/a	n/a	$15,000	n/a	Winds blew down trees along IL Rte. 100.
06/20/2000	8:20 PM	Fosterburg Alton East Alton Wood River Roxana Hartford	56 kts	n/a	n/a	n/a	n/a	Winds downed trees and power lines across the City. A vehicle was seriously damaged by a downed tree.
06/23/2000	8:05 PM	Edwardsville	56 kts	n/a	n/a	n/a	n/a	Winds downed power lines in Hartford and Wood River.
06/23/2000	8:15 PM	Collinsville	52 kts	n/a	n/a	n/a	n/a	Winds blew down trees on the north and east sides of the City.
07/02/2000	4:07 PM	St. Jacob	52 kts	n/a	n/a	n/a	n/a	Winds blew down a large tree which blocked a street on the east side of the City.
07/02/2000	7:45 PM	Edwardsville	52 kts	n/a	n/a	n/a	n/a	Winds downed power lines.
07/02/2000	7:55 PM	Worden	53 kts	n/a	n/a	n/a	n/a	Winds downed several large trees and power lines.

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1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
08/17/2000	7:40 PM	Edwardsville Glen Carbon Maryville Collinsville Troy Marine	55 kts	n/a	n/a	n/a	n/a	Winds blew some trees and broke a light pole.
08/17/2000	9:07 PM	Granite City Madison Venice Collinsville	51 kts	n/a	n/a	n/a	n/a	Winds downed numerous trees and power lines. Some minor structural damage such as roof shingles blown off, signs blown down and storage buildings damaged. Illinois Power reported 52,000 customers lost power in the Metro East area during the peak of the storm.
08/27/2000	1:05 AM	Edwardsville	60 kts	n/a	n/a	$100,000	n/a	Winds downed numerous trees and power lines. In the Madison/Venice area, winds knocked down a major transmission line between Madison and Venice taking out power to both communities.
09/11/2000	10:43 PM	Godfrey	56 kts	n/a	n/a	n/a	n/a	Winds downed trees and power lines. Downed trees and limbs damaged quite a few roofs and vehicles from N. Main St. south to Goshen Rd.
09/11/2000	10:48 PM	Madison	56 kts	n/a	n/a	n/a	n/a	Winds downed trees and power lines.
04/10/2001	9:30 PM	Marine	55 kts	n/a	n/a	$20,000	n/a	Winds downed trees and power lines.
05/05/2001	3:45 PM	Alton	50 kts	n/a	n/a	n/a	n/a	Structural damage to a home and its garage when 50-year old elm tree was blown onto the home and a 60-year old mulberry tree was blown onto the garage.
06/14/2001	9:30 PM	Bethalto	50 kts	n/a	n/a	n/a	n/a	Winds blew down some trees. A few roads were blocked by downed trees. Falling tree limbs caused minor damage to a few decks and backyard pools.

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1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
06/14/2001	9:45 PM	Collinsville	52 kts	n/a	n/a	n/a	n/a	Winds downed trees and large limbs across the Village, many of which fell on vehicles causing damage. Downed power lines knocked out power to about 1,000 customers a garage was heavily damaged when a tree was blown onto it.
07/17/2001	7:30 PM	Collinsville	55 kts	n/a	n/a	n/a	n/a	Winds downed trees and power lines leaving about 2,500 customers without power.
07/19/2001	5:30 AM	Fosterburg	52 kts	n/a	n/a	n/a	n/a	Winds downed numerous trees and power lines.
08/09/2001	3:10 PM	Alton	55 kts	n/a	n/a	n/a	n/a	Winds blew down trees in the area.
08/09/2001	3:25 PM	Bethalto Edwardsville	55 kts	n/a	n/a	n/a	n/a	Winds snapped off 5 to 6 inch diameter tree limbs. Winds uprooted trees at the intersection of Davenport St. and State St.
09/08/2001	10:26 PM	Edwardsville	55 kts	n/a	n/a	n/a	n/a	In Bethalto, winds downed or damaged numerous trees in the area. In Edwardsville, winds downed trees on the north side of the City and several roads were blocked by downed trees.
10/24/2001	12:05 PM	Edwardsville	51 kts	n/a	n/a	$2,000	n/a	Winds downed some trees and power lines in the area. Winds damaged the gutters on a house.
10/24/2001	12:13 PM	Worden Hamel	61 kts	n/a	n/a	n/a	n/a	Winds downed large tree limbs which took down power lines. A power line fell onto the roof of a house causing a brief fire.
04/27/2002	8:40 PM	Highland^	55 kts	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #1416)*** Winds downed several trees across the area.
05/01/2002	12:25 PM	Livingston^	70 kts	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #1416)*** Winds caused scattered damage in the Arkansas Rd. and Buckeye Rd. areas, damaged a garage door and broke several windows at a home, significantly damaged a tin-roofed pole barn, and damaged several trees in the area.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1 Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County 1966 - 2023								
Date(s)	**Start Time**	**Location(s)**	**Magnitude Windspeed (knots)**	**Injuries**	**Fatalities**	**Property Damages**	**Crop Damages**	**Impacts/Event Description**
05/07/2002	1:50 AM	Godfrey Alton	52 kts	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #1416)*** Winds blew over several rail cars on the Norfolk Southern railroad near the Madison/Macoupin County line – 12 cars were derailed at 3 different locations. Winds blew over 2 tractor trailer trucks on I-55 near Livingston and downed trees and power lines in the area.
05/12/2002	3:27 PM	Godfrey	55 kts	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #1416)*** Winds blew down trees and power lines across the area. Trees were reported down on IL Rte. 111. A tree fell onto and damaged a home.
06/11/2002	3:20 PM	Edwardsville	60 kts	n/a	n/a	n/a	n/a	Winds downed power lines in the Village.
06/11/2002	3:30 PM	Troy	61 kts	n/a	n/a	n/a	n/a	Winds downed numerous trees and power lines. Falling trees damaged several vehicles.
06/11/2002	3:50 PM	Highland	55 kts	n/a	n/a	n/a	n/a	
07/22/2002	6:05 PM	Godfrey	52 kts	n/a	n/a	n/a	n/a	Winds uprooted trees, downed large limbs and power lines.
05/08/2003	1:41 PM	Godfrey Dorsey Prairietown Worden Livingston	61 kts	n/a	n/a	n/a	n/a	Winds uprooted trees, downed large limbs and power lines.

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Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
05/10/2003	7:50 AM	Troy	57 kts	n/a	n/a	n/a	n/a	In northern Madison County, winds downed trees and power lines across the area. Some roads were blocked by downed trees. A few homes suffered minor damage from downed trees. In Godfrey, winds downed large trees on the Lewis and Clark College campus. Minor roof damage to a shopping center across from the College. In the Livingston area, a tractor trailer truck was blown over on I-55 near the Village.
05/10/2003	9:05 AM	Highland^	65 kts	n/a	n/a	n/a	n/a	Winds blew down a wooden fence and ripped siding off a building.
07/18/2003	6:45 AM	Worden	56 kts	n/a	n/a	n/a	n/a	Winds blew over a tractor trail truck just east of I-70 northwest of the City.
07/18/2003	8:20 AM	Maryville Troy	55 kts	n/a	n/a	n/a	n/a	Winds downed trees and power lines.
07/18/2003	8:55 AM	Godfrey Alton East Alton Wood River Hartford Mitchell	55 kts	n/a	n/a	n/a	n/a	Winds downed some trees and power lines in area. Illinois power reported at least 200 customers without power. A number of crops were damaged, with corn stalks being flattened to the ground.
09/26/2003	5:48 PM	Glen Carbon Granite City	60 kts	n/a	n/a	n/a	n/a	Winds blew down trees and power lines.
09/26/2003	6:10 PM	Marine^ St. Jacob^ Highland	60 kts	n/a	n/a	n/a	n/a	Winds downed trees and power lines in both Glen Carbon and Granite City. In Glen Carbon, a fallen tree damaged a home.

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Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
05/24/2004	11:25 PM	Wood River Roxana	55 kts	n/a	n/a	n/a	n/a	In the Marine/St. Jacob area, winds downed trees and damaged some buildings in a subdivision between Marine and St. Jacob. Winds downed 9 Bartlett pear trees at one home and another home lost roof shingles and had an 8' x 10' shed blown into a neighbor's yard. A downed tree damaged a fence and a TV antenna was bent by winds. In Highland, winds broke several power poles along IL Rte. 143 in the City. A sign at the Dairy Queen on IL Rte. 143 was destroyed. Winds downed some trees and power lines in other parts of the City as well.
05/24/2004	11:40 PM	Edwardsville	52 kts	n/a	n/a	n/a	n/a	Winds blew down trees and damaged a garage.
05/30/2004	4:26 PM	Wood River Roxana East Alton Alton Godfrey	51 kts	n/a	n/a	n/a	n/a	Wind downed some trees and power lines. Power was not restored in some areas until about 10 am the next morning.
05/31/2004	6:55 PM	Alton East Alton Cottage Hills	52 kts	n/a	n/a	n/a	n/a	Winds downed large tree limbs.
07/05/2004	9:10 AM	Collinsville	55 kts	n/a	n/a	n/a	n/a	In Cottage Hills, winds blew down a large tree.
07/05/2004	9:10 AM	Godfrey Fosterburg	55 kts	n/a	n/a	n/a	n/a	Winds downed numerous large tree limbs and power lines across the City.
07/05/2004	7:25 PM	Maryville	60 kts	n/a	n/a	n/a	n/a	Winds downed trees and tree limbs in Godfrey and Fosterburg.
08/24/2004	1:40 PM	Godfrey	50 kts	n/a	n/a	n/a	n/a	Winds downed some trees, large tree limbs and power lines. Power was knocked out to about 14,000 Illinois Power customers.
08/25/2004	4:16 PM	Troy^	52 kts	n/a	n/a	n/a	n/a	Winds downed small trees and large tree branches.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
08/25/2004	5:10 PM	Godfrey	55 kts	n/a	n/a	n/a	n/a	Winds downed 6 to 8 inch diameter tree limbs and some power lines.
08/25/2004	6:05 PM	Bethalto	55 kts	n/a	n/a	n/a	n/a	Winds damaged the roof of a storage building.
05/11/2005	8:00 PM	Hamel	51 kts	n/a	n/a	n/a	n/a	Winds damaged a 400 foot section of an airplane hanger at the St. Louis Regional Airport.
05/11/2005	8:30 PM	St. Jacob^	52 kts	n/a	n/a	$5,000	n/a	Winds downed large tree branches.
05/19/2005	10:20 PM	Troy	52 kts	n/a	n/a	n/a	n/a	Winds destroyed a greenhouse near the Village.
06/08/2005	3:00 PM	Godfrey Bethalto	53 kts	n/a	n/a	n/a	n/a	Winds downed several large tree limbs.
06/08/2005	3:25 PM	Pontoon Beach	52 kts	n/a	n/a	n/a	n/a	Winds broke tree limbs up to 6 inches in diameter out of trees. In Bethalto, a 125 year-old tree fell onto the roof of the Village Hall.
06/08/2005	3:40 PM	New Douglas	52 kts	n/a	n/a	n/a	n/a	Winds downed a few trees and power lines.
06/13/2005	5:00 PM	Godfrey Alton	55 kts	n/a	n/a	n/a	n/a	Winds blew down a tree in the Village.
08/10/2005	4:00 PM	Alton East Alton Wood River Roxana	57 kts	n/a	n/a	$1,000,000	n/a	In Godrey, winds downed trees and power lines. A tree fell on a house knocking a hole in the roof. In Alton, a 12-inch diameter tree limb downed power lines at State St. and 9th St. knocking out power.
08/10/2005	4:25 PM	Collinsville Highland	55 kts	n/a	n/a	n/a	n/a	In Alton, winds caused damage at a marina along the Mississippi River – several docks and boats were damaged. In Wood River/Roxana, winds downed trees and power lines and the local electric utility reported up to 1,200 customers lost power. In Wood River at the Conoco Phillips oil refinery, the power outage caused some spectacular flames to erupt from the burn towers, normal procedure during a power outage to prevent explosions.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1
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1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
08/10/2005	4:45 PM	St. Jacob^	57 kts	n/a	n/a	n/a	n/a	In Collinsville, winds downed trees and a street was blocked by 2 large trees. In Highland, winds downed power lines and trees, including a historic hackberry tree in the downtown square and blew down a business sign damaging 2 cars.
08/13/2005	3:55 PM	Godfrey Madison Maryville Collinsville Troy Highland	55 kts	n/a	n/a	n/a	n/a	Winds downed a couple of 50-foot tall trees at a farm southwest of the Village.
09/19/2005	7:25 PM	Alton Godfrey	55 kts	n/a	n/a	n/a	n/a	Winds downed trees and power lines across the area. In Madison, power lines were down along IL Rte. 203. In the Troy area, several corn fields near the City were flattened by the wind.
04/02/2006	4:15 PM	Godfrey Alton East Alton Wood River Roxana South Roxana Granite City Pontoon Beach Bethalto Hamel Alhambra	60 kts	n/a	n/a	n/a	n/a	Winds downed trees and large limbs.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1 Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County 1966 - 2023								
Date(s)	**Start Time**	**Location(s)**	**Magnitude Windspeed (knots)**	**Injuries**	**Fatalities**	**Property Damages**	**Crop Damages**	**Impacts/Event Description**
04/02/2006	4:30 PM	St. Jacob	60 kts	n/a	n/a	n/a	n/a	In Godfrey, winds downed several large trees and blew over several mobile homes and campers at a storage facility near the intersection of IL Rte. 267 and US Rte. 67. In Wood River, winds downed several large trees. In Granite City, winds downed numerous trees and power lines across the City. Several homes sustained roof damage and winds blew over 9 railroad cars. In Bethalto, winds downed large tree limbs and power lines. In the Hamel area, winds blew down some billboards along I-55 near the Village. In Alhambra, winds downed trees and power lines.
05/01/2006	8:30 PM	Edwardsville	70 kts	n/a	n/a	n/a	n/a	Winds blew shingles off of homes. A couple of barns, a grain bin and other outbuildings were damaged.
05/24/2006	4:00 PM	Roxana South Roxana	55 kts	n/a	n/a	n/a	n/a	Winds uprooted large 4 to 5 foot diameter trees as well as numerous small trees along Buena Vista St. in the Grandview Subdivision. Several large trees were blown down on a couple of homes, causing extensive damage.
06/17/2006	1:50 PM	Alhambra	50 kts	n/a	n/a	n/a	n/a	Wind downed numerous large tree limbs.
06/17/2006	2:10 PM	New Douglas	55 kts	n/a	n/a	n/a	n/a	Winds downed several small trees.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
07/19/2006	5:53 PM	Alton East Alton Wood River Roxana South Roxana Granite City Bethalto Pontoon Beach Collinsville Maryville Glen Carbon Edwardsville Troy Hamel	61 kts	n/a	n/a	$290,984	n/a	Winds downed several large tree limbs. The Committee member from Collinsville Township Road District identified $100,000 in damages from downed trees and power lines. Ameren (regional information, including Madison County): 302,000 customers were without power for up to 12 days; 140 wires downed; 1,014 poles replaced.

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Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
07/21/2006	10:20 AM	Granite City Pontoon Beach Collinsville Maryville Glen Carbon Edwardsville Troy	60 kts	n/a	n/a	n/a	n/a	Winds uprooted or downed numerous large trees and tree limbs and downed power lines. East Alton sustained $190,984 in damages to critical facilities village-wide. In Bethalto, winds damaged several hangers at the St. Louis Regional Airport. Twenty-five homes on the northeast side of the Village sustained minor to moderate roof and siding damage. The roof of an apartment building was blown off and two large trees were uprooted. In Wood River, the Conoco Phillips oil refinery was down for two weeks as a result of this storm. In Glen Carbon, several 2-foot diameter trees were blown down near the intersection of I-270 and IL Rte. 159. In Edwardsville, minor roof damage occurred to a building on the SIUE campus and several large trees were uprooted.
05/26/2007	5:30 PM	Edwardsville^	55 kts	n/a	n/a	$5,000	n/a	Winds uprooted or downed numerous large trees and tree limbs and downed power lines. In Collinsville, several fallen trees caused minor to moderate roof damage. In Maryville, a couple of fallen trees caused structural damage.
06/01/2007	6:30 PM	Bethalto	52 kts	n/a	n/a	n/a	n/a	Winds downed several power poles north-northeast of the City.
08/13/2007	3:00 AM	Alton	52 kts	n/a	n/a	n/a	n/a	Winds downed 1 large tree and some large tree limbs.
08/24/2007	2:35 PM	Maryville	52 kts	n/a	n/a	n/a	n/a	
10/18/2007	12:53 AM	Wood River	52 kts	n/a	n/a	n/a	n/a	
10/18/2007	3:45 PM	Highland	56 kts	n/a	n/a	n/a	n/a	A large tree was blown over, damaging 2 vehicles parked in a driveway.
05/30/2008	8:25 PM	Bethalto	55 kts	n/a	n/a	n/a	n/a	Numerous large trees were broken off halfway up the trunks. Winds downed numerous tree limbs and power lines.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
07/11/2008	4:50 PM	Highland^	61 kts	n/a	n/a	n/a	n/a	Winds downed power lines.
07/11/2008	5:00 PM	Worden	52 kts	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #1771)*** Winds blew over a machine shed 2 miles south of IL Rte. 160, some equipment inside the shed was damaged. Another building on the same farm had a third of its western wall blown out and a 14- foot sliding door blown off its rollers. Winds downed numerous tree limbs and several power lines in the area.
07/21/2008	10:55 PM	Alton	56 kts	n/a	n/a	$100,000	n/a	***This event was part of a federally-declared disaster (Declaration #1771)*** Winds downed several large tree limbs. A fallen tree limb landed on an unoccupied truck, causing minor damage.
07/27/2008	9:05 PM	Bethalto^ Roxana^	52 kts	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #1771)*** Winds toppled a large oak tree, damaging a business, destroying 2 garages and damaging the 3 vehicles inside them.
08/05/2008	5:20 PM	Godfrey Bethalto	52 kts	n/a	n/a	n/a	n/a	In the Roxana area, winds downed a 10 inch diameter tree onto Wanda Rd. near its intersection with IL Rte. 143. Ameren (regional information, including Madison County): 33,000 customers were without power for up to 5 days; 112 poles replaced; 734 Ameren personnel responded to the event.
08/05/2008	6:13 PM	Highland	52 kts	n/a	n/a	n/a	n/a	
05/07/2009	9:30 PM	Alton	61 kts	n/a	n/a	n/a	n/a	Winds downed numerous large tree limbs around the City.
05/15/2009	6:45 PM	Bethalto Worden^	50 kts	n/a	n/a	n/a	n/a	

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1 Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County 1966 - 2023								
Date(s)	**Start Time**	**Location(s)**	**Magnitude Windspeed (knots)**	**Injuries**	**Fatalities**	**Property Damages**	**Crop Damages**	**Impacts/Event Description**
04/24/2010	4:05 PM	Wood River	52 kts	n/a	n/a	n/a	n/a	In the Worden area, winds blew over a semi on I-55 near the Village.
05/03/2010	4:37 PM	Worden^	52 kts	n/a	n/a	n/a	n/a	Winds downed an 8 inch diameter tree at the intersection of IL Routes 143 and 3.
06/12/2010	2:45 PM	Edwardsville	52 kts	n/a	n/a	n/a	n/a	Winds blew down the 3rd story of an old brick building on E. Broadway – some of the bricks and debris were thrown onto the roofs of adjacent buildings. Winds blew in the wall of an abandoned lumber company's metal storage building. Numerous vehicles in the area sustained damage from flying debris. Several large trees in the area were blown over. The roof of a home sustained minor damage from a fallen tree.
06/15/2010	12:25 PM	Glen Carbon	52 kts	n/a	n/a	n/a	n/a	Wind downed several large trees and power lines. A garage was destroyed when a large tree fell on it. Several tents were blown over at the 13th Annual Route 66 Festival.
06/27/2010	6:15 PM	Wood River Roxana	52 kts	n/a	n/a	n/a	n/a	winds downed power lines throughout the Village. Winds blew down a large tree near IL Rte. 157, just north of W. Main St.
07/18/2010	7:58 AM	Alton	52 kts	n/a	n/a	n/a	n/a	Winds downed numerous large tree limbs.
08/12/2010	12:55 PM	Madison	52 kts	n/a	n/a	n/a	n/a	Winds blew down several large trees, numerous tree limbs. Tree limbs downed power lines causing power outage around the City. A tree fell onto a car and 2 homes, causing major damage to the car and moderate roof damage to the homes.
08/14/2010	1:15 AM	Highland^	50 kts	n/a	n/a	n/a	n/a	Winds downed several large trees and many large tree limbs.
08/20/2010	11:55 AM	Godfrey	52 kts	n/a	n/a	n/a	n/a	Winds downed a tree onto Iberg Rd. near Sugar Creek southeast of the City.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1 Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County 1966 - 2023								
Date(s)	**Start Time**	**Location(s)**	**Magnitude Windspeed (knots)**	**Injuries**	**Fatalities**	**Property Damages**	**Crop Damages**	**Impacts/Event Description**
02/27/2011	11:39 PM	Maryville Glen Carbon Edwardsville Bethalto Hamel Troy Highland Alhambra Grantfork	62 kts	n/a	n/a	$1,500	n/a	
04/11/2011	12:15 AM	Collinsville	52 kts	n/a	n/a	n/a	n/a	***This event was part of a State disaster proclamation*** In Maryville, winds downed several trees and numerous tree limbs. A 16' x 24' section of roof was torn off the Copper Creek Christian Church. A pavilion at Drost Park was picked up and dropped about 10 feet away from its original location. In the Alhambra area, winds blew the metal roof off of a shed and part of the roof off a grain silo. In Highland, winds downed several tree limbs, power lines and signs throughout the City. In the Grantfork area, winds caused a barn to collapse at a hog farm killing 4 hogs.
04/19/2011	7:26 PM	Highland	50 kts	n/a	n/a	n/a	n/a	Winds downed a 2 foot diameter tree limb as well as numerous smaller limbs. Ameren (regional information, including Madison County): 82,092 customers were without power for up to 5 days; 1,463 wires downed; 626 poles replaced; 459 tree orders received for trees/tree limbs that either fell on a line and caused an outage or were on a line and had to be removed; 1,901 Ameren personnel responded to the event.

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Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
05/23/2011	11:42 AM	East Alton Bethalto Wood River Roxana Granite City Pontoon Beach Edwardsville Glen Carbon Maryville Troy	73 kts	0	0	$15,000	n/a	
05/25/2011	3:55 PM	Wood River Roxana	52 kts	n/a	n/a	n/a	n/a	In Bethalto, winds partially caved a 80' x 25' door on the St. Louis Regional Airport's administration building. In Wood River, winds downed numerous trees, power poles and power lines. Fallen trees caused minor to moderate roof damage to some homes. A dugout roof on the softball field at East Alton-Wood River High School was blown off. In Granite City, a chimney of a home suffered minor damage. Part of the roof of a building was blown off near the intersection of 23rd St. and Washington Ave. The Granite City EMA reported damage to many roofs and trees. In Troy, winds downed a 12-inch diameter tree on Clay St. In Glen Carbon/Edwardsville, winds downed numerous large tree limbs in the area.
05/25/2011	4:21 PM	Highland	58 kts	n/a	n/a	n/a	n/a	
06/27/2011	1:40 AM	Alton	52 kts	n/a	n/a	n/a	n/a	Winds downed numerous large tree limbs.
09/03/2011	3:55 PM	Rosewood Heights	56 kts	n/a	n/a	n/a	n/a	Winds downed several power lines in the City.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1 Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County 1966 - 2023								
Date(s)	**Start Time**	**Location(s)**	**Magnitude Windspeed (knots)**	**Injuries**	**Fatalities**	**Property Damages**	**Crop Damages**	**Impacts/Event Description**
04/28/2012	2:47 PM	Granite City Pontoon Beach Collinsville	52 kts	n/a	n/a	n/a	n/a	Winds downed a large tree and snapped a telephone pole. Ameren (regional information, including Madison County): 46,790 customers were without power for up to 2 days; 170 wires downed; 24 poles replaced; 135 tree orders received for trees/tree limbs that either fell on a line and caused an outage or were on a line and had to be removed; 208 Ameren personnel responded to the event.
04/10/2013	7:12 PM	Wood River East Alton^ Maryland Place Granite City	65 kts	n/a	n/a	n/a	n/a	
04/10/2013	7:13 PM	Godfrey	55 kts	n/a	n/a	n/a	n/a	Numerous large tree limbs were blown down and a power pole was snapped. Ameren (regional information, including Madison County): 7,969 customers were without power for up to 1.5 days; 156 wires downed; 47 poles replaced; 56 tree orders received for trees/tree limbs that either fell on a line and caused an outage or were on a line and had to be removed; 157 Ameren personnel responded to the event.
04/10/2013	7:29 PM	Edwardsville	52 kts	n/a	n/a	n/a	n/a	Several large trees and numerous tree limbs were blown down.
05/20/2013	9:20 PM	Edwardsville	52 kts	n/a	n/a	n/a	n/a	Ameren (regional information, including Madison County): 35,117 customers were without power for up to 2 days; 403 wires downed; 66 poles replaced; 211 tree orders received for trees/tree limbs that either fell on a line and caused an outage or were on a line and had to be removed; 629 Ameren personnel responded to the event.

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1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
05/31/2013	7:30 PM	Mitchell	61 kts	n/a	n/a	n/a	n/a	
05/31/2013	7:31 PM	Oldenburg South Roxana	70 kts	n/a	n/a	n/a	n/a	A large tree was blown down blocking the door to a house, trapping the occupant briefly.
05/31/2013	7:36 PM	Edwardsville	65 kts	n/a	n/a	n/a	n/a	Minor roof damage occurred to a home at the intersection of New Poag Rd. and IL Rte. 111.
05/31/2013	7:38 PM	Bethalto	50 kts	n/a	n/a	n/a	n/a	Several very large trees around the 1000 block of both Grand Ave and Randle St. near North Elm St. One of the trees went through the roof of a house on Grand Ave. causing major damage. Another large tree on Randle St. pulled down several power lines.
05/31/2013	7:50 PM	Hamel Worden^	65 kts	n/a	n/a	n/a	n/a	
05/31/2013	8:00 PM	Alhambra	61 kts	n/a	n/a	n/a	n/a	Several tractor trailers were blown over along I-55 between mile markers 31 and 28 on the southbound side of the interstate.
02/20/2014	3:15 PM	Alton East Alton Bethalto	52 kts	1	n/a	n/a	n/a	Several trees and fences were blown down.
02/20/2014	3:50 PM	Highland	52 kts	n/a	n/a	n/a	n/a	In Alton, a utility pole was blown down and fell onto an occupied car; one passenger sustained minor injuries. In Bethalto, several large tree limbs and a 2-foot diameter tree were blown down.
04/03/2014	7:50 PM	Collinsville Lumaghi Heights St. Jacob^	63 kts	n/a	n/a	n/a	n/a	Winds blew off some siding on a few homes as well as some shingles. A few small trees were blown down.

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Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
06/20/2014	6:39 PM	Troy^ St. Jacob	52 kts	n/a	n/a	n/a	n/a	Winds blew down a tree across a road 2-miles south of St. Jacob. Ameren (regional information, including Madison County): 24,250 customers were without power for up to 2.5 days; 132 wires downed; 57 poles replaced; 119 tree orders received for trees/tree limbs that either fell on a line and caused an outage or were on a line and had to be removed.
07/07/2014	1:05 PM	Godfrey^	52 kts	n/a	n/a	n/a	n/a	Winds blew down about 20 power poles US Rte. 40 between IL Rte. 162 and Triad Middle School.
07/14/2014	1:30 PM	Edwardsville	52 kts	n/a	n/a	n/a	n/a	Winds blew down a large tree as well as large tree limbs.
08/20/2014	8:05 PM	Marine^	52 kts	n/a	n/a	n/a	n/a	Winds blew down several large tree limbs.
08/27/2014	4:07 PM	Collinsville	52 kts	n/a	n/a	n/a	n/a	Winds blew down several large tree limbs.
09/01/2014	8:50 PM	Carpenter	61 kts	n/a	n/a	n/a	n/a	Winds blew down a large tree onto a power line.
05/10/2015	4:50 PM	Edwardsville	56 kts	n/a	n/a	n/a	n/a	Winds blew down several large trees. One tree fell onto a barn and another onto a home causing moderate damage.
05/24/2015	8:40 PM	Troy	56 kts	n/a	n/a	n/a	n/a	Numerous 5 to 7 inch diameter tree limbs were blown down.
06/12/2015	3:10 PM	Edwardsville	52 kts	n/a	n/a	n/a	n/a	Several trees were blown down as well as numerous tree limbs.
06/25/2015	6:20 PM	Collinsville	61 kts	n/a	n/a	n/a	n/a	Winds blew down several large tree limbs. Some of the fallen limbs pulled down power lines. Ameren (regional information, including Madison County): 25,000 customers were without power for up to 2 days; 75 wires downed; 28 poles replaced; 93 tree orders received for trees/tree limbs that either fell on a line and caused an outage or were on a line and had to be removed; 494 Ameren personnel responded to the event.
07/06/2015	12:30 PM	Granite City	52 kts	n/a	n/a	n/a	n/a	

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Date(s)	**Start Time**	**Location(s)**	**Magnitude Windspeed (knots)**	**Injuries**	**Fatalities**	**Property Damages**	**Crop Damages**	**Impacts/Event Description**
04/26/2016	2:00 PM	Wood River East Alton	52 kts	n/a	n/a	n/a	n/a	Winds snapped off a portion of a large oak that landed on the roof of a home causing moderate roof damage.
05/07/2016	3:25 PM	Godfrey Alton East Alton Wood River	56 kts	n/a	n/a	n/a	n/a	Winds blew down several large tree limbs.
05/07/2016	3:43 PM	New Douglas	56 kts	n/a	n/a	n/a	n/a	Winds blew down numerous trees and tree limbs. In Wood River, several power lines were blown down and city hall sustained minor roof and shingle damage.
05/07/2016	3:50 PM	Marine Highland	56 kts	n/a	n/a	n/a	n/a	Winds blew down several trees.
05/11/2016	1:00 PM	South Roxana Wood River East Alton	56 kts	n/a	n/a	n/a	n/a	Winds blew down numerous large tree limbs, several trees and power lines. In Marine, a house suffered minor roof damage.
07/13/2016	2:45 PM	Alton Rosewood Heights Bethalto Hamel Alhambra	56 kts	n/a	n/a	n/a	n/a	Winds blew down several trees and large tree limbs. In Wood River, shingles were blown off a house.

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Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
07/13/2016	2:50 PM	Granite City Mitchell Edwardsville Collinsville Maryville Glen Carbon Troy St. Jacob Highland	56 kts	n/a	n/a	n/a	n/a	Numerous trees, tree limbs and power lines were blown down. Ameren (regional information, including Madison County): 100,853 customers were without power for up to 3 days; 742 wires downed; 425 poles replaced; 756 tree orders received for trees/tree limbs that either fell on a line and caused an outage or were on a line and had to be removed; 2,208 Ameren personnel responded to the event.
02/02/2017	5:35 PM	Collinsville	52 kts	n/a	n/a	n/a	n/a	Numerous trees, tree limbs and power lines were blown down. In Highland, two houses sustained minor guttering and siding damage.
03/07/2017	12:45 AM	Alton	56 kts	n/a	n/a	n/a	n/a	Winds blew down several trees and power lines, One hosue sustained siding damaged from the winds.
04/29/2017	3:00 PM	Alton	61 kts	n/a	n/a	n/a	n/a	Winds snapped off several large tree limbs.
05/19/2017	4:39 AM	Wood River	56 kts	n/a	n/a	n/a	n/a	Winds blew down numerous tree limbs. A few trees were either uprooted or snapped off.
05/27/2017	4:15 PM	Granite City	56 kts	n/a	n/a	n/a	n/a	Winds blew over a large tree.
05/29/2017	3:55 PM	Madison^ Granite City	56 kts	n/a	n/a	n/a	n/a	Winds blew down a couple large tree limbs, which in turn knocked down a few power lines.
06/14/2017	11:40 AM	Alton Godfrey	56 kts	n/a	n/a	n/a	n/a	Winds blew down several large tree limbs and power lines.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
07/23/2017	2:15 AM	countywide	63 kts	n/a	n/a	n/a	n/a	Winds blew down several large trees, numerous tree limbs and power lines. Ameren (regional information, including Madison County): 40,021 customers were without power for up to 2 days; 410 wires downed; 160 poles replaced; 454 tree orders received for trees/tree limbs that either fell on a line and caused an outage or were on a line and had to be removed; 1,391 Ameren personnel responded to the event.
09/04/2017	6:05 PM	Alton	52 kts	n/a	n/a	n/a	n/a	Numerous tree limbs and power lines were blown down. In Alton, a large tree was snapped off. In the Marine area, a turkey tractor was moved 10-feet and split in half and wind damage to crops was reported.
10/09/2017	7:11 PM	East Alton Rosewood Heights	56 kts	n/a	n/a	n/a	n/a	Winds caused minor damage to a store as debris was blown around, including shopping carts.
05/14/2018	5:10 PM	Godfrey Fosterburg	52 kts	n/a	n/a	n/a	n/a	Winds blew down several large tree limbs.
05/14/2018	5:25 PM	Granite City Pontoon Beach Glen Carbon Edwardsville	56 kts	n/a	n/a	n/a	n/a	In Godfrey, numerous trees, tree limbs and power lines were blown down. In Fosterburg, several large tree limbs were blown down around town, a few of which blocked roadways.
05/14/2018	5:35 PM	Collinsville	56 kts	n/a	n/a	n/a	n/a	In Granite City, winds blew down numerous trees, tree limbs and power lines. In Pontoon Beach, a large section of a tree was blown down onto a shed near IL Rte. 162. In Edwardsville, numerous tree limbs were blown down.
05/27/2018	5:03 PM	Bethalto Edwardsville	59 kts	n/a	n/a	n/a	n/a	Several large tree limbs were blown down onto a house and car causing moderate damage.
06/26/2018	3:32 AM	Collinsville	56 kts	n/a	n/a	n/a	n/a	Winds blew down numerous tree limbs as well as power lines.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
06/28/2018	4:26 PM	Godfrey Alton East Alton	56 kts	n/a	n/a	n/a	n/a	Winds blew down several trees. The worst damage occurred near St. Johns Cemetery where several large trees and headstones were toppled.
06/28/2018	4:41 PM	Worden Hamel Marine Highland St. Jacob	56 kts	n/a	n/a	n/a	n/a	Winds blew down several large trees, numerous tree limbs and power lines. In Godfrey, one tree fell onto an unoccupied mobile home. In Alton, a tree fell onto a car and nearby home causing moderate damage to both. A large tree fell on a garage destroying it.
06/28/2018	4:50 PM	Granite City Madison Eagle Park Edwardsville Glen Carbon Maryville^	61 kts	n/a	n/a	n/a	n/a	Winds blew down several trees, tree limbs and power lines. In Worden, two large trees were completely uprooted. In Highland, several wooden fences were blown over. Ameren (regional information, including Madison County): 83,685 customers were without power for up to 2.5 days; 501 poles replaced.
07/01/2018	5:05 PM	Bethalto^	56 kts	n/a	n/a	n/a	n/a	Winds blew down several large trees, tree limbs and power lines. In Granite City, numerous large trees, tree limbs and power lines were blown down. In Eagle Park, a 500-foot radio broadcast tower was knocked over.
07/14/2018	3:15 PM	Bethalto^ Moro^	56 kts	n/a	n/a	n/a	n/a	Winds blew down 2 trees onto a house along IL Rte. 140.
07/14/2018	3:39 PM	Dosey Midway^ Holiday Shores Hamel^ Marine^	56 kts	n/a	n/a	n/a	n/a	Winds blew down a large tree along McCoy Rd.
07/14/2018	4:47 PM	Bethalto	56 kts	n/a	n/a	n/a	n/a	Winds blew several large trees down.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1 Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County 1966 - 2023								
Date(s)	**Start Time**	**Location(s)**	**Magnitude Windspeed (knots)**	**Injuries**	**Fatalities**	**Property Damages**	**Crop Damages**	**Impacts/Event Description**
05/21/2019	6:37 PM	Edwardsville^	56 kts	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #4461)*** Winds blew down a large tree onto a house causing moderate damage.
06/01/2019	7:22 PM	Granite City Pontoon Beach^	56 kts	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #4461)*** Several large tree limbs were blown down.
06/16/2019	12:25 AM	Highland	56 kts	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #4461)*** Numerous large tree limbs were blown down.
06/26/2019	2:52 PM	Madison Granite City Horseshoe Lake Pontoon Beach^	56 kts	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #4461)*** Several large tree limbs were blown down on the northwest side of City. Ameren (regional information, including Madison County): 14,102 customers were without power for up to 1 day; 155 wires downed; 41 poles replaced; 88 tree orders received for trees/tree limbs that either fell on a line and caused an outage or were on a line and had to be removed; 354 Ameren personnel responded to the event.
06/26/2019	3:20 PM	St. Jacob	56 kts	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #4461)*** In Granite City, a large tree was blown down. At Horseshoe Lake, numerous large tree limbs were blown down.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1 Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County 1966 - 2023								
Date(s)	**Start Time**	**Location(s)**	**Magnitude Windspeed (knots)**	**Injuries**	**Fatalities**	**Property Damages**	**Crop Damages**	**Impacts/Event Description**
07/15/2020	3:25 PM	Alton Edwardsville East Alton Roxana Wood River Granite City	57 kts	n/a	n/a	n/a	n/a	A large tree was blown down across Marine Rd. on the north side of the Village. Ameren (regional information, including Madison County): 17,040 customers were without power for up to 1 day.
08/10/2020	4:36 PM	Alton Wood River East Alton^ Roxana^ Hartford^	52 kts	n/a	n/a	n/a	n/a	Thunderstorm gust front winds blew down numerous large tree limbs in the Alton and Wood River areas. Ameren (regional information, including Madison County): 60,240 customers were without power for up to 3.5 days; 1,434 Ameren personnel responded to the event.
08/10/2020	5:20 PM	Collinsville	56 kts	n/a	n/a	n/a	n/a	Thunderstorm winds blew down a tree blocking roadway near intersection of Spring Street and Lebanon Road.
03/27/2021	6:00 PM	Troy^	65 kts	1	n/a	n/a	n/a	Thunderstorm winds caused a delivery truck to be blown into a car on the other side of the road causing a collision. The delivery truck driver was taken to the hospital for minor injuries. Also, several large trees, tree branches and power lines were blown down.
03/27/2021	6:14 PM	Marine^ St. Jacob^ Highland	81 kts	n/a	n/a	n/a	n/a	Thunderstorm winds blew down several large tree branches southwest of Marine. Thunderstorm winds blew an outbuilding off of it's foundation causing major damage east of St. Jacob. In Highland, wind damage included two large barns that were destroyed, along with some large trees that were toppled in a concentrated area across two neighborhoods off Poplar Street. In addition, winds caused moderate roof damage to a business on the northside of City and several large tree branches were snapped off.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
05/27/2021	11:23 AM	Godfrey Alton^	61 kts	n/a	n/a	n/a	n/a	Thunderstorm winds blew down numerous tree limbs around town, especially on the southside.
07/09/2021	11:56 PM	Venice Madison^ Granite City^	52 kts	n/a	n/a	n/a	n/a	
08/12/2021	5:54 PM	Granite City Collinsville Collinsville^	61 kts	n/a	n/a	n/a	n/a	Thunderstorm winds blew down a large tree onto Illinois Route 3 in Granite City. Also, several trees, tree limbs and power lines were blown down around Collisville.
09/14/2021	5:00 PM	Edwardsville	52 kts	n/a	n/a	$10,000	n/a	Thunderstorm winds blew down a couple of power lines and caused damage to nearby corn crop.
05/19/2022	4:40 PM	Glen Carbon Maryville^	56 kts	n/a	n/a	$10,000	n/a	Thunderstorm winds blew down numerous tree limbs around town.
05/19/2022	5:00 PM	Highland	56 kts	n/a	n/a	$157,000	n/a	Thunderstorm winds blew off some shingles from the roof of a house as well as several tree limbs. The Committee member from Highland indicated a structure sustained $150,000 in damages along Highland Road.
05/25/2022	3:58 PM	Wood River East Alton^ Roxana^	56 kts	n/a	n/a	$5,000	n/a	Thunderstorm winds blew down several large tree limbs.
06/17/2022	4:01 AM	Prairietown^ Prairietown	61 kts	n/a	n/a	$2,000	n/a	Thunderstorm winds snapped a large tree off near the base in town.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
06/17/2022	4:10 AM	Alton East Alton^ Rosewood Heights^ Bethalto Wood River Roxana^ Glen Carbon Edwardsville	61 kts	n/a	n/a	$2,020,000	n/a	Widespread wind damage between Alton and Edwardsville. In Alton, the soffit on a house was partially torn off. Numerous trees, tree limbs and power lines were blown down in Alton, Bethalto, Wood River, Glen Carbon and Edwardsville. The Committee Member from SIUE indicated winds downed power lines and communications lines and caused $2,000,000 in damages. Ameren (regional information, including Madison County): 53,905 customers were without power for up to 2.5 days; 220 wires downed; 115 poles replaced; 42 tree orders received for trees/tree limbs that either fell on a line and caused an outage or were on a line and had to be removed; 1,344 Ameren personnel responded to the event.
06/17/2022	4:15 AM	Granite City Madison^	61 kts	n/a	n/a	$10,000	n/a	Thunderstorm winds blew a large tree down onto an unoccupied car in Granite City, causing major damage.
06/17/2022	4:28 AM	St. Jacob Marine Alhambra	61 kts	n/a	n/a	$12,000	n/a	Thunderstorm winds blew down numerous tree limbs around St. Jacob. Winds blew in a garage door in Alhambra.
08/03/2022	2:32 PM	Alton	61 kts	n/a	n/a	$10,000	n/a	Thunderstorm winds blew down several trees near the intersection of 4th Street and Henry Street. Also a large tree was blown over into the front yard, narrowly missing the house. Numerous tree limbs and power lines were blown down around town, including in Oakwood Cemetery.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
08/03/2022	3:55 PM	Granite City Pontoon Beach^ Glen Carbon Maryville Troy^ Troy	61 kts	n/a	n/a	$30,000	n/a	Thunderstorm winds caused widespread damage between Granite City, Pontoon Beach, Glen Carbon and Troy. Numerous tree limbs were blown down as well as power lines. Also, several large trees were blown down. In Glen Carbon, some of the fallen trees blocked roads in the Oakdale Lake Drive area. Just east southeast of Troy a large tree fell onto a driveway.
02/22/2023	2:30 PM	St. Jacob Highland Highland^	61 kts	n/a	n/a	$15,000	n/a	A wide swath of damaging winds from St. Jacob eastward through Highland to the county line. Numerous trees, tree limbs, road signs and powerlines were blown down.
03/31/2023	6:37 PM	Bethalto Bethalto^ Rosewood Heights^ Meadowbrook^ Hamel	63 kts	n/a	n/a	$30,000	n/a	Thunderstorm winds destroyed a machine shed as well as a smaller shed near Dorsey. Damaging thunderstorm winds moved through Bethalto and Hamel. In Bethalto, several power poles were snapped along Roosevelt Drive. Also, about 3 miles east northeast of Bethalto a grain silo was damaged and an outbuilding collapsed. Also, numerous tree limbs, power lines as well as several large trees were blown down. Ameren (regional information, including Madison County): 34,601 customers were without power for up to 3 days; 64 wires downed; 66 poles replaced; 93 tree orders received for trees/tree limbs that either fell on a line and caused an outage or were on a line and had to be removed; 482 Ameren personnel responded to the event.
03/31/2023	6:41 PM	Edwardsville	61 kts	n/a	n/a	$5,000	n/a	Thunderstorm winds snapped off a large tree at the base on the northwest side of town. Also, on Logan Place a large tree was uprooted.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1 Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County 1966 - 2023								
Date(s)	**Start Time**	**Location(s)**	**Magnitude Windspeed (knots)**	**Injuries**	**Fatalities**	**Property Damages**	**Crop Damages**	**Impacts/Event Description**
04/15/2023	6:08 PM	Bethalto Bethalto^ Rosewood Heights Rosewood Heights^ Roxana South Roxana^ Hartford^	61 kts	n/a	n/a	n/a	n/a	Thunderstorm winds snapped off a two foot diameter tree about a mile west of the airport. At St. Louis Regional Airport (KALN) a large section of a hanger's roof was peeled off. The Committee member from Saline Township indicated that three residential farms were demolished alog Pocahontas Road.
04/15/2023	6:35 PM	St. Jacob^ Highland^	61 kts	n/a	n/a	$200,000	n/a	Thunderstorm winds blew off part of an outbuilding about a mile south of St. Jacob. Further east, about a quarter of a roof on a large horse barn was blown off. One of the horses was killed by the flying debris. Thirty five other horses busted out of their fences and stalls as they ran scared from the storm. The roof debris was thrown about a 100 yards to the east.
06/29/2023	12:10 PM	Pierron^	56 kts	n/a	n/a	n/a	n/a	Thunderstorm winds blew down several power lines just west of Pierron. Ameren (regional information, including Madison County): 181,668 customers were without power for up to 6 days; 3,129 Ameren personnel responded to the event.
06/30/2023	8:30 PM	Granite City	56 kts	n/a	n/a	n/a	n/a	Thunderstorm winds blew down numerous large tree limbs.
06/30/2023	8:40 PM	Edwardsville	61 kts	n/a	n/a	n/a	n/a	Thunderstorm winds blew down numerous tree limbs and one tree on the southeast side of town.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
07/01/2023	2:45 PM	countywide	61 kts	n/a	n/a	$300,000	n/a	Widespread wind damage across Madison County. Numerous trees, tree limbs and power lines were blown down. A couple of power poles were snapped off as well. In Madison, a small market sustained moderate roof damage. In Collinsville, the false roof of a building that covered up the A/C units was blown off and tossed onto Route 66 below. Also, a nearby Catholic school gymnasium sustained moderate roof damage. The tree damage was reported in Madison, Granite City, Roxana, Collinsville, Edwardsville, Glen Carbon, Maryville, Troy and Marine. The Committee member from Glen Carbon indicated that power lines were downed and the Village lost power for 3 days, especially hard hit was Meridian Road. The Committee member from Collinsville identified $300,000 in clean up costs sustained by the City.
07/02/2023	12:13 AM	Maryville	56 kts	n/a	n/a	n/a	n/a	Thunderstorm winds blew down several large trees and numerous tree limbs in the Maryville area.
07/14/2023	6:40 PM	Granite City	56 kts	n/a	n/a	n/a	n/a	Thunderstorm winds blew down several trees in the Wilson Park area. Also, a power pole was snapped off in this area.
07/14/2023	10:16 PM	Worden	56 kts	n/a	n/a	n/a	n/a	Thunderstorm winds blew down several trees around town. One tree fell onto a house causing major damage. No injuries were reported.
07/17/2023	2:02 PM	Granite City Madison^	61 kts	n/a	n/a	n/a	n/a	Thunderstorm winds blew down several large trees, power lines and numerous tree limbs around town. One large tree was uprooted and it fell onto a house on Logan Street. Two occupants inside the home were injured and taken to a local hospital. They had minor injuries.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 1
Severe Storms - Thunderstorms with Damaging Winds Reported in Madison County
1966 - 2023

Date(s)	Start Time	Location(s)	Magnitude Windspeed (knots)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
07/20/2023	9:09 AM	Livingston Williamson^	56 kts	n/a	n/a	n/a	n/a	Thunderstorm winds blew down several large trees around town. A couple of trees fell down on the roads and pulled power lines down.
07/29/2023	2:57 PM	Granite City Collinsville Madison^	51 kts	n/a	n/a	$50,000	n/a	Thunderstorm winds blew down numerous large tree limbs in Granite City and Collinsville. The Committee member from Collinsville identified $50,000 in clean up costs sustained by the City.
07/29/2023	3:20 PM	East Alton East Alton^ Wood River Wood River^ Rosewood Heights^ Roxana^	56 kts	n/a	n/a	n/a	n/a	Thunderstorm winds blew down numerous large tree limbs around town as well as a few power lines. Ameren (regional information, including Madison County): 50,708 customers were without power for up to 2 days; 566 Ameren personnel responded to the event.
07/29/2023	3:35 PM	Troy Highland St. Jacob^	61 kts	n/a	n/a	n/a	n/a	Numerous large tree limbs and power lines were blown down between Troy and Highland. Also, in Highland four power poles were snapped off.
GRAND TOTAL:				**4**	**0**	**$5,528,484**	**$0**	

Source: Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee group discussion January 8, 2013.
Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee Member responses to Critical Facilities Damaged by Natural Hazard Events Questionnaire.
Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee Member responses to the Natural Hazard Events Questionnaire.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Storm Events Database.

^ Thunderstorms with damaging winds verified in the vicinity of this location(s).

Table 2
Severe Storms - Hail Events Reported in Madison County
1977 - 2023

Date(s)	Start Time	Location(s)	Magnitude Hail Stone Diameter (inches)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
05/06/1977	2:20 PM	Collinsville	2.00 in.	n/a	n/a	n/a	n/a	
09/25/1977	6:12 PM	Godfrey	1.50 in.	n/a	n/a	n/a	n/a	
06/01/1980	9:55 AM	Alton	1.75 in.	n/a	n/a	n/a	n/a	
04/03/1981	11:20 PM	Highland	1.00 in.	n/a	n/a	n/a	n/a	
04/28/1981	7:17 PM	Glen Carbon	1.75 in.	n/a	n/a	n/a	n/a	
04/28/1981	7:30 PM	St. Jacob^	1.00 in.	n/a	n/a	n/a	n/a	
07/04/1982	3:00 PM	Collinsville	2.00 in.	n/a	n/a	n/a	n/a	
06/05/1983	5:10 PM	Godfrey	1.25 in.	n/a	n/a	n/a	n/a	
08/08/1984	1:45 PM	Collinsville	1.75 in.	n/a	n/a	n/a	n/a	
11/09/1984	3:25 PM	Collinsville	1.75 in.	n/a	n/a	n/a	n/a	
11/09/1984	4:32 PM	Edwardsville^	1.50 in.	n/a	n/a	n/a	n/a	
06/01/1989	2:05 PM	Madison	1.00 in.	n/a	n/a	n/a	n/a	
06/17/1990	6:32 PM	Godfrey	1.75 in.	n/a	n/a	n/a	n/a	
06/15/1991	7:00 PM	Hamel^	1.75 in.	n/a	n/a	n/a	n/a	
05/03/1996	4:10 PM	Wood River Roxana Edwardsville	1.75 in.	n/a	n/a	n/a	n/a	
04/18/1997	11:12 PM	Godfrey Alton	1.75 in.	n/a	n/a	n/a	n/a	
06/21/1997	3:50 PM	Madison	1.75 in.	n/a	n/a	n/a	n/a	
06/12/1998	5:01 PM	Edwardsville	1.75 in.	n/a	n/a	n/a	n/a	City Police reported that at one-point hail covered the ground at the intersection of I-270 and IL Rte. 159
06/12/1998	5:03 PM	Edwardsville	1.00 in.	n/a	n/a	n/a	n/a	
06/12/1998	5:10 PM	Troy	1.00 in.	n/a	n/a	n/a	n/a	
06/12/1998	5:15 PM	Edwardsville	1.00 in.	n/a	n/a	n/a	n/a	

^ Hail event verified in the vicinity of this location(s).

Table 2
Severe Storms - Hail Events Reported in Madison County
1977 - 2023

Date(s)	Start Time	Location(s)	Magnitude Hail Stone Diameter (inches)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
02/27/1999	12:15 PM	Edwardsville	1.75 in.	n/a	n/a	$200,000	n/a	Hail damaged vehicles and some roofs
02/27/1999	12:45 PM	Highland	1.00 in.	n/a	n/a	n/a	n/a	
04/16/2000	6:20 PM	Alton	1.75 in.	n/a	n/a	n/a	n/a	
07/02/2000	7:40 PM	Edwardsville	1.00 in.	n/a	n/a	n/a	n/a	
08/23/2000	10:00 PM	Edwardsville	1.00 in.	n/a	n/a	n/a	n/a	
04/10/2001	10:32 AM	Fosterburg	1.00 in.	n/a	n/a	n/a	n/a	
04/10/2001	8:39 PM	Glen Carbon	1.75 in.	n/a	n/a	n/a	n/a	
04/10/2001	9:00 PM	Edwardsville	1.75 in.	n/a	n/a	n/a	n/a	
04/10/2001	9:25 PM	Troy^	1.00 in.	n/a	n/a	n/a	n/a	
04/10/2001	9:30 PM	Marine^ Highland^	1.75 in.	n/a	n/a	n/a	n/a	
07/17/2001	6:55 PM	Alton	1.00 in.	n/a	n/a	n/a	n/a	
07/17/2001	7:00 PM	Alton	1.75 in.	n/a	n/a	n/a	n/a	
12/18/2002	10:10 AM	Pontoon Beach Edwardsville^	1.00 in.	n/a	n/a	n/a	n/a	
04/04/2003	2:15 PM	Godfrey	1.00 in.	n/a	n/a	n/a	n/a	
04/04/2003	2:31 PM	Godfrey	1.00 in.	n/a	n/a	n/a	n/a	
05/10/2003	8:05 AM	Edwardsville	1.00 in.	n/a	n/a	n/a	n/a	
08/04/2003	1:15 AM	Glen Carbon	1.00 in.	n/a	n/a	n/a	n/a	- Several cars were damaged at a used car lot - Trees were stripped of their leaves
08/04/2003	1:20 AM	Edwardsville	1.00 in.	n/a	n/a	n/a	n/a	- At SIUE campus numerous vehicles suffered hail damage - Trees were stripped of their leaves
05/25/2004	1:55 PM	Collinsville	1.00 in.	n/a	n/a	n/a	n/a	
05/30/2004	4:10 PM	Troy	1.75 in.	n/a	n/a	n/a	n/a	
05/19/2005	9:30 PM	Livingston	1.00 in.	n/a	n/a	n/a	n/a	

^ Hail event verified in the vicinity of this location(s).

Table 2
Severe Storms - Hail Events Reported in Madison County
1977 - 2023

Date(s)	Start Time	Location(s)	Magnitude Hail Stone Diameter (inches)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
05/19/2005	9:40 PM	Alhambra	1.75 in.	n/a	n/a	$366,000	n/a	Alhambra FPD indicated that roofs and vehicles were damaged
01/02/2006	7:02 AM	St. Jacob	1.00 in.	n/a	n/a	n/a	n/a	
02/16/2006	3:50 PM	Collinsville	1.00 in.	n/a	n/a	n/a	n/a	Hail up to 1 inch in diameter fell in the City for about 15 minutes
02/16/2006	4:15 PM	Troy	1.00 in.	n/a	n/a	n/a	n/a	
04/05/2006	9:35 PM	Granite City	1.00 in.	n/a	n/a	n/a	n/a	
05/24/2006	4:34 PM	Edwardsville	1.75 in.	n/a	n/a	n/a	n/a	
07/19/2006	5:53 PM	Bethalto^	1.00 in.	n/a	n/a	n/a	n/a	- A swath of large hail fell from 7.5 miles northeast of Bethalto southward towards the intersection of IL Routes 159 & 140 - Several hundred acres of corn were damaged along and west of IL Rte. 159
07/21/2006	10:25 AM	Maryville	1.75 in.	n/a	n/a	n/a	n/a	
07/21/2006	10:30 AM	Collinsville	1.00 in.	n/a	n/a	n/a	n/a	
04/03/2007	10:45 AM	Hamel^ Alhambra^	1.00 in.	n/a	n/a	n/a	n/a	
04/03/2007	12:45 PM	Glen Carbon	1.00 in.	n/a	n/a	n/a	n/a	
04/03/2007	1:30 PM	Highland	1.50 in.	n/a	n/a	n/a	n/a	
04/03/2007	1:40 PM	Wood River	1.00 in.	n/a	n/a	n/a	n/a	
04/03/2007	1:45 PM	Cottage Hills Bethalto Wood River	1.75 in.	n/a	n/a	n/a	n/a	
05/10/2007	12:53 PM	Collinsville	1.00 in.	n/a	n/a	n/a	n/a	
05/26/2007	5:45 PM	Madison	1.00 in.	n/a	n/a	n/a	n/a	
06/01/2007	6:30 PM	Bethalto	1.00 in.	n/a	n/a	n/a	n/a	

^ Hail event verified in the vicinity of this location(s).

Table 2
Severe Storms - Hail Events Reported in Madison County
1977 - 2023

Date(s)	Start Time	Location(s)	Magnitude Hail Stone Diameter (inches)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
04/22/2008	7:55 AM	Edwardsville	1.00 in.	n/a	n/a	n/a	n/a	
05/13/2008	4:05 PM	Collinsville	1.00 in.	n/a	n/a	n/a	n/a	
05/25/2008	9:47 AM	Glen Carbon	1.00 in.	n/a	n/a	n/a	n/a	
05/25/2008	12:28 PM	Glen Carbon Troy^	1.00 in.	n/a	n/a	n/a	n/a	
05/30/2008	8:32 PM	Worden Alhambra	2.00 in.	n/a	n/a	n/a	n/a	Hail ranging from 1.25 inches in Alhambra to 2.00 inches in Worden for nearly 10 minutes
05/07/2009	9:30 PM	Godfrey	1.00 in.	n/a	n/a	n/a	n/a	
05/07/2009	9:40 PM	Wood River Alton East Alton	1.25 in.	n/a	n/a	n/a	n/a	
05/07/2009	9:45 PM	Roxana South Roxana	1.00 in.	n/a	n/a	n/a	n/a	
05/13/2009	9:25 AM	Godfrey	1.00 in.	n/a	n/a	n/a	n/a	
06/08/2009	3:41 PM	Granite City Mitchell	1.00 in.	n/a	n/a	n/a	n/a	
06/08/2009	3:56 PM	Edwardsville	1.00 in.	n/a	n/a	n/a	n/a	
06/08/2009	4:00 PM	Glen Carbon	1.50 in.	n/a	n/a	n/a	n/a	
06/08/2009	4:02 PM	Collinsville	1.00 in.	n/a	n/a	n/a	n/a	
06/08/2009	4:07 PM	Collinsville^	1.00 in.	n/a	n/a	n/a	n/a	
07/16/2009	7:45 PM	Cottage Hills Bethalto	1.00 in.	n/a	n/a	n/a	n/a	
04/24/2010	4:10 PM	Wood River	1.00 in.	n/a	n/a	n/a	n/a	
05/03/2010	4:49 PM	Livingston	1.00 in.	n/a	n/a	n/a	n/a	
06/12/2010	2:47 PM	Edwardsville	1.00 in.	n/a	n/a	n/a	n/a	
06/15/2010	12:24 PM	Edwardsville	2.25 in.	n/a	n/a	n/a	n/a	

^ Hail event verified in the vicinity of this location(s).

Table 2
Severe Storms - Hail Events Reported in Madison County
1977 - 2023

Date(s)	Start Time	Location(s)	Magnitude Hail Stone Diameter (inches)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
06/15/2010	12:30 PM	Maryville	1.25 in.	n/a	n/a	n/a	n/a	
06/15/2010	12:33 PM	Glen Carbon	1.75 in.	n/a	n/a	n/a	n/a	
04/09/2011	4:40 AM	Glen Carbon	1.00 in.	n/a	n/a	n/a	n/a	
04/15/2011	4:16 PM	East Alton Wood River	1.00 in.	n/a	n/a	n/a	n/a	
04/19/2011	5:48 PM	Granite City	1.75 in.	n/a	n/a	n/a	n/a	
04/19/2011	6:10 PM	Alton East Alton Wood River Roxana	1.00 in.	n/a	n/a	n/a	n/a	
04/19/2011	6:14 PM	Poag Edwardsville	1.00 in.	n/a	n/a	n/a	n/a	
04/19/2011	6:20 PM	Livingston^ New Douglas	1.50 in.	n/a	n/a	n/a	n/a	
04/19/2011	6:40 PM	Granite City	1.75 in.	n/a	n/a	n/a	n/a	
04/19/2011	6:50 PM	Collinsville	1.75 in.	n/a	n/a	n/a	n/a	
04/19/2011	6:58 PM	Glen Carbon	1.00 in.	n/a	n/a	n/a	n/a	
04/19/2011	7:05 PM	Edwardsville Troy	1.00 in.	n/a	n/a	n/a	n/a	
04/19/2011	7:10 PM	Marine^	1.00 in.	n/a	n/a	n/a	n/a	
04/22/2011	10:08 AM	Granite City	1.00 in.	n/a	n/a	n/a	n/a	
04/22/2011	10:15 AM	Poag Edwardsville	1.50 in.	n/a	n/a	n/a	n/a	
05/10/2011	11:27 AM	Alton	1.75 in.	n/a	n/a	n/a	n/a	
05/10/2011	11:28 AM	Bethalto	1.00 in.	n/a	n/a	n/a	n/a	
05/25/2011	3:37 PM	Granite City	1.75 in.	n/a	n/a	n/a	n/a	

^ Hail event verified in the vicinity of this location(s).

Table 2
Severe Storms - Hail Events Reported in Madison County
1977 - 2023

Date(s)	Start Time	Location(s)	Magnitude Hail Stone Diameter (inches)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
05/25/2011	3:58 PM	Pontoon Beach	1.75 in.	n/a	n/a	n/a	n/a	
06/25/2011	10:05 PM	Alton	1.00 in.	n/a	n/a	n/a	n/a	
01/17/2012	2:17 AM	Granite City	1.00 in.	n/a	n/a	n/a	n/a	
01/17/2012	2:24 AM	Maryville	1.25 in.	n/a	n/a	n/a	n/a	
01/17/2012	5:14 AM	Collinsville	1.00 in.	n/a	n/a	n/a	n/a	
03/02/2012	6:10 AM	Godfrey	1.00 in.	n/a	n/a	n/a	n/a	
03/02/2012	6:10 AM	Alton	1.25 in.	n/a	n/a	n/a	n/a	
03/02/2012	6:16 AM	Wood River	1.00 in.	n/a	n/a	n/a	n/a	
03/02/2012	6:22 AM	Bethalto	1.75 in.	n/a	n/a	n/a	n/a	
03/02/2012	6:25 AM	Edwardsville	1.00 in.	n/a	n/a	n/a	n/a	
03/02/2012	6:44 AM	New Douglas	1.00 in.	n/a	n/a	n/a	n/a	
04/28/2012	2:42 PM	Granite City Pontoon Beach	2.50 in.	n/a	n/a	$800,000	n/a	
04/28/2012	2:55 PM	Collinsville	2.50 in.	n/a	n/a	n/a	n/a	
05/28/2012	11:48 PM	Alton East Alton Wood River	1.00 in.	n/a	n/a	n/a	n/a	
08/16/2012	2:44 PM	Marine	1.75 in.	n/a	n/a	n/a	n/a	
10/22/2012	9:27 AM	East Alton Wood River	1.00 in.	n/a	n/a	n/a	n/a	
04/15/2013	11:00 AM	East Alton Roxana^	1.00 in.	n/a	n/a	n/a	n/a	
04/02/2014	12:17 AM	Granite City Pontoon Beach Glen Carbon	1.50 in.	n/a	n/a	n/a	n/a	
04/03/2014	7:44 PM	Pontoon Beach	1.00 in.	n/a	n/a	n/a	n/a	

^ Hail event verified in the vicinity of this location(s).

Table 2
Severe Storms - Hail Events Reported in Madison County
1977 - 2023

Date(s)	Start Time	Location(s)	Magnitude Hail Stone Diameter (inches)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
04/28/2014	3:12 PM	Wood River Rosewood Heights Bethalto	1.25 in.	n/a	n/a	n/a	n/a	
04/28/2014	4:37 PM	Collinsville	1.75 in.	n/a	n/a	n/a	n/a	
05/10/2014	10:58 PM	Bethalto Edwardsville Troy	1.25 in.	n/a	n/a	n/a	n/a	
06/25/2015	6:10 PM	Granite City	1.00 in.	n/a	n/a	n/a	n/a	
04/27/2016	9:29 PM	Godfrey^	1.25 in.	n/a	n/a	n/a	n/a	
04/30/2016	6:40 PM	Granite City Pontoon Beach	1.75 in.	n/a	n/a	n/a	n/a	
04/30/2016	6:53 PM	Fairmont City State Park Place Collinsville	1.75 in.	n/a	n/a	n/a	n/a	
02/28/2017	5:35 PM	Collinsville Maryville^ Troy Marine	2.00 in.	n/a	n/a	n/a	n/a	Damaged roofs and siding and dented vehicles were reported
03/30/2017	11:40 AM	Glen Carbon^ Edwardsville	1.00 in.	n/a	n/a	n/a	n/a	
04/10/2017	6:06 PM	Troy	1.00 in.	n/a	n/a	n/a	n/a	
10/09/2017	6:45 PM	Granite City	1.75 in.	n/a	n/a	n/a	n/a	
10/09/2017	7:10 PM	East Alton	1.25 in.	n/a	n/a	$2,084	n/a	Planning Committee member reported $2,084 in damages to the Village's police squad and zoning vehicle

^ Hail event verified in the vicinity of this location(s).

Table 2
Severe Storms - Hail Events Reported in Madison County
1977 - 2023

Date(s)	Start Time	Location(s)	Magnitude Hail Stone Diameter (inches)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
11/05/2017	2:36 PM	Venice Collinsville St. Jacob^	3.00 in.	n/a	n/a	n/a	n/a	
05/06/2018	6:05 PM	Alhambra^	1.00 in.	n/a	n/a	n/a	n/a	
05/20/2018	5:17 AM	Wood River	1.00 in.	n/a	n/a	n/a	n/a	
05/20/2018	5:20 AM	Granite City	1.00 in.	n/a	n/a	n/a	n/a	
05/26/2018	11:02 PM	Godfrey^	1.00 in.	n/a	n/a	n/a	n/a	
05/27/2018	4:55 PM	Moro^	1.00 in.	n/a	n/a	n/a	n/a	
04/30/2019	1:15 PM	Granite City Pontoon Beach	1.00 in.	n/a	n/a	n/a	n/a	
04/30/2019	1:43 PM	Edwardsville Alhambra	1.75 in.	n/a	n/a	n/a	n/a	
04/30/2019	2:01 PM	Collinsville Troy	2.00 in.	n/a	n/a	n/a	n/a	
03/27/2020	2:16 AM	Roxana South Roxana^ Wood River Wood River^ Hartford^ Poag Edwardsville Marine Glen Carbon Highland	1.50 in.	n/a	n/a	n/a	n/a	A wide swath of large hail between an inch and 1.50 inches in diameter fell along the I-270/I-70 corridor in central portions of Madison County. Large hail was reported in Wood River, Roxana, Poag, Edwardsville, Glen Carbon, and Highland.
03/27/2021	6:00 PM	Collinsville Maryville	1.00 in.	n/a	n/a	n/a	n/a	

^ Hail event verified in the vicinity of this location(s).

Table 2
Severe Storms - Hail Events Reported in Madison County
1977 - 2023

Date(s)	Start Time	Location(s)	Magnitude Hail Stone Diameter (inches)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
05/14/2023	6:05 PM	Worden^	1.00 in.	n/a	n/a	n/a	n/a	
06/30/2023	7:40 PM	Troy^ St. Jacob^	1.25 in.	n/a	n/a	n/a	n/a	
06/30/2023	8:49 PM	Glen Carbon Maryville^	1.00 in.	n/a	n/a	n/a	n/a	
07/17/2023	1:38 PM	Godfrey	1.00 in.	n/a	n/a	n/a	n/a	
07/17/2023	2:12 PM	Madison Granite City^ Venice^	1.25 in.	n/a	n/a	n/a	n/a	
07/17/2023	2:20 PM	Granite City	1.00 in.	n/a	n/a	n/a	n/a	
GRAND TOTAL:				**0**	**0**	**$1,368,084**	**$0**	

Source: Madison County Multi-Jurisdictional All Hazard Mitigation Planning Committee Member responses to the Natural Hazard Events Questionnaire.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Storm Events Database.

^ Hail event verified in the vicinity of this location(s).

Table 3
Severe Storms - Lightning Events Reported in Madison County
1990 - 2023

Date(s)	Start Time	Location(s)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
06/02/1990	2:30 PM	Edwardsville	1	n/a	n/a	n/a	One person was struck by lightning.
09/23/1993	6:30 AM	Hamel	n/a	n/a	n/a	n/a	- Lightning started a fire at a crude oil pumping station - Heat from the fire caused a 250-barrel steel holding tank to fly 300 yards into a nearby field - Two other holding tanks also caught fire
06/23/1994	5:00 PM	East Alton	n/a	n/a	$5,000	n/a	A lightning strike caused a tree to catch fire
06/10/1995	1:34 AM	Edwardsville	n/a	n/a	$800	n/a	Lightning struck a transformer starting a fire
08/23/1996	7:00 PM	Collinsville	1	n/a	n/a	n/a	Lightning struck a garage just as a 13-year old boy touched a metal door, the resulting charge knocked the boy backwards across the garage and caused minor injuries
07/02/2000	6:10 PM	Glen Carbon	n/a	n/a	n/a	n/a	Lightning struck an electric substation knocking out power to about 2,300 customers in the area
07/05/2004	7:30 AM	Granite City	n/a	n/a	n/a	n/a	- Lightning struck the second-floor window of a four-family apartment building in the 2000 block of Grand Avenue - The strike ignited a fire in one of the apartments causing smoke to pour through the entire building - Firefighters contained the fire to one apartment
07/05/2004	8:15 AM	Collinsville	n/a	n/a	n/a	n/a	A home suffered extensive damage from several fires started by a lightning strike
08/24/2004	1:15 PM	Alton	n/a	n/a	n/a	n/a	Lightning struck an electric substation knocking out power to about 12,000 customers
07/2009	n/a	Bethalto	n/a	n/a	$100,000	n/a	Lightning strike damage to water towers/ pumps
06/2010	n/a	Bethalto	n/a	n/a	$15,000	n/a	Lightning struck the radio communication tower
07/2010	n/a	Worden	n/a	n/a	$20,000	n/a	Lightning struck the wastewater treatment facility
08/2012	n/a	Bethalto	n/a	n/a	$5,000	n/a	Lightning struck the pump at the primary water tower
09/25/2012	n/a	Godfrey	n/a	n/a	$10,000	n/a	Lightning struck Fire Station #1
03/2013	n/a	Worden	n/a	n/a	$15,000	n/a	Lightning struck Pump Station "C"

^ Lightning event verified in the vicinity of this location(s).

Table 3
Severe Storms - Lightning Events Reported in Madison County
1990 - 2023

Date(s)	Start Time	Location(s)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
2016	n/a	Alton	n/a	n/a	$140,000	n/a	Lightning struck the Alton High School parking lot damaging the sound system, fire panel, fiber optic light, transformer, and server according to the Facilities Director.
08/16/2017	n/a	East Alton	n/a	n/a	$8,579	n/a	Lightning caused damage to the Village's Vital Services Building HVAC system
05/19/2018	n/a	East Alton	n/a	n/a	$16,800	n/a	Lightning damaged the Village's Keasler Complex HVAC system
08/12/2019	n/a	East Alton Maryville	n/a	n/a	$70,234	n/a	*East Alton* The transducer and other electrical equipment were damaged at the Village's Water Plant ($4,220) *Maryville* Lightning struck the Water Plant and a fire station damaging circuit boards, meters, motors, and generators ($66,014)
10/19/2019	n/a	East Alton	n/a	n/a	$13,104	n/a	Lightning damages the Village's traffic light signal at W. Main & St. Louis Ave
05/18/2023	n/a	Alhambra	n/a	n/a	$1,586	n/a	Lightning damaged the Lift Station #3 pump and controls
GRAND TOTAL:			**2**	**0**	**$421,103**	**$0**	

Sources: Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee Member responses to Critical Facilities Damaged by Natural Hazard Events Questionnaire.
Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee Member responses to the Natural Hazard Events Questionnaire.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Storm Events Database.

^ Lightning event verified in the vicinity of this location(s).

Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
01/03/1993 thru 01/04/1993	5:30 PM	1.90 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
06/25/1993	11:30 AM	1.72 in.	Alton Highland	n/a	n/a	n/a	n/a	
09/13/1993 thru 09/15/1993	5:00 PM	2.38 in.	Alton Highland	n/a	n/a	n/a	n/a	
09/22/1993 thru 09/27/1993	8:00 AM	6.03 in.	Alton Highland Collinsville	n/a	n/a	n/a	n/a	Heavy rains resulted in flash flooding on IL Rte. 159 in Collinsville
11/12/1993 thru 11/14/1993	9:30 AM	4.20 in.	Alton Highland	n/a	n/a	n/a	n/a	
04/09/1994 thru 04/11/1994	11:00 AM	4.50 in.	Alton Highland	n/a	n/a	n/a	n/a	
04/27/1994 thru 04/28/1994	7:00 PM	3.62 in.	Alton Highland	n/a	n/a	n/a	n/a	
06/23/1994 thru 06/24/1994	5:00 PM	2.91 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
07/17/1994	n/a	1.91 in.	Alton	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
11/03/1994 thru 11/05/1994	3:00 PM	3.59 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
01/12/1995 thru 01/13/1995	3:30 PM	1.76 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
03/06/1995 thru 03/07/1995	12:00 AM	2.97 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
05/16/1995 thru 05/18/1995	6:00 AM	8.55 in.	Alton East Alton Edwardsville Granite City Pontoon Beach Collinsville Highland Marine	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #1053)*** Heavy rains caused widespread flash flooding across much of the County
08/02/1995	12:00 PM	1.63 in.	Edwardsville	n/a	n/a	n/a	n/a	
08/07/1995	n/a	2.05 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
04/21/1996 thru 04/22/1996	2:00 PM	9.50 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
04/27/1996 thru 04/28/1996	3:00 PM	6.74 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	Heavy rain caused flash flooding across much of the County
05/25/1996 thru 05/27/1996	6:30 PM	2.90 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
07/14/1996	10:00 AM	1.50 in.	Highland	n/a	n/a	n/a	n/a	
07/19/1996 thru 07/20/1996	8:30 PM	1.55 in.	Highland	n/a	n/a	n/a	n/a	
11/06/1996 thru 11/07/1996	2:00 PM	3.12 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
11/23/1996 thru 11/25/1996	2:00 PM	2.96 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
02/26/1997 thru 02/27/1997	1:00 AM	2.72 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
07/21/1997	6:30 PM	1.52 in.	Highland	n/a	n/a	n/a	n/a	
03/19/1998 thru 03/20/1998	11:00 AM	2.18 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
04/13/1998 thru 04/15/1998	8:00 AM	3.53 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
05/21/1998 thru 05/22/1998	1:00 PM	3.22 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
06/03/1998 thru 06/05/1998	11:00 AM	4.19 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
06/20/1998 thru 06/21/1998	9:30 PM	1.69 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
07/30/1998	4:00 AM	2.50 in.	Alton Mitchell Highland	n/a	n/a	n/a	n/a	
08/04/1998 thru 08/05/1998	8:00 PM	2.43 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
08/12/1998	n/a	2.09 in.	Highland	n/a	n/a	n/a	n/a	
09/17/1998	n/a	2.11 in.	Alton	n/a	n/a	n/a	n/a	
09/25/1998	n/a	1.50 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
11/02/1998 thru 11/03/1998	2:00 AM	1.87 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
02/06/1999 thru 02/07/1999	8:00 AM	3.30 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
05/12/1999 thru 05/13/1999	3:00 PM	1.86 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
06/11/1999 thru 06/13/1999	n/a	3.48 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
06/23/1999 thru 06/24/1999	3:00 PM	2.06 in.	Highland	n/a	n/a	n/a	n/a	
07/01/1999 thru 07/02/1999	n/a	1.74 in.	Edwardsville	n/a	n/a	n/a	n/a	
08/07/1999	n/a	1.61 in.	Edwardsville	n/a	n/a	n/a	n/a	
10/08/1999 thru 10/09/1999	n/a	1.91 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
02/18/2000	1:00 AM	2.55 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
05/06/2000 thru 05/07/2000	8:30 PM	2.23 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

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Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
05/26/2000 thru 05/27/2000	7:30 AM	2.22 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
06/23/2000 thru 06/26/2000	7:00 PM	5.32 in.	Alton Edwardsville Collinsville Highland	n/a	n/a	n/a	n/a	Heavy rain caused flash flooding across the area, washing out several non-paved rural roads sections
07/11/2000	5:30 AM	2.21 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
07/18/2000	6:00 PM	3.06 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
07/28/2000 thru 07/29/2000	5:00 AM	2.59 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
08/07/2000 thru 08/08/2000	12:00 AM	2.14 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
09/24/2000 thru 09/25/2000	12:00 AM	2.99 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
10/04/2000 thru 10/05/2000	4:00 PM	1.58 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	

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Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
11/06/2000	2:00 AM	2.08 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
02/23/2001 thru 02/24/2001	8:30 PM	in.	Alton Edwardsville	n/a	n/a	n/a	n/a	
04/09/2001 thru 04/11/2001	10:00 PM	3.62 in.	Alton Edwardsville Marine	n/a	n/a	n/a	n/a	
05/30/2001 thru 05/31/2001	8:00 AM	1.69 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
07/17/2001 thru 07/19/2001	7:00 PM	5.11 in.	Alton Fosterburg Edwardsville Collinsville Highland	n/a	n/a	n/a	n/a	
08/23/2001 thru 08/24/2001	9:30 PM	2.35 in.	Alton Edwardsville	n/a	n/a	n/a	n/a	
08/24/2001 thru 08/25/2001	8:00 PM	2.07 in.	Highland	n/a	n/a	n/a	n/a	
08/30/2001	3:30 PM	1.74 in.	Alton Edwardsville	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

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1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
09/08/2001 thru 09/09/2001	10:00 PM	1.65 in.	Highland	n/a	n/a	n/a	n/a	
10/10/2001 thru 10/11/2001	4:00 AM	2.61 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
11/23/2001 thru 11/24/2001	11:00 PM	2.00 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
12/15/2001 thru 12/16/2001	9:00 PM	2.22 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
01/29/2002 thru 02/01/2002	7:30 PM	2.74 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
03/08/2002 thru 03/09/2002	11:00 PM	1.51 in.	Highland	n/a	n/a	n/a	n/a	
04/19/2002 thru 04/21/2002	6:00 PM	2.65 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
04/27/2002	5:00 AM	1.51 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #1416)***

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

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Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
05/06/2002 thru 05/09/2002	2:30 AM	3.78 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #1416)***
05/12/2002 thru 05/13/2002	6:00 PM	4.28 in.	Alton Godfrey Bethalto Edwardsville	n/a	n/a	n/a	n/a	***This event was part of a federally-declared disaster (Declaration #1416)***
06/10/2002 thru 06/12/2002	4:00 PM	4.92 in.	Alton Edwardsville Troy Highland	n/a	n/a	n/a	n/a	
06/25/2002	9:00 AM	1.52 in.	Alton Edwardsville	n/a	n/a	n/a	n/a	
07/12/2002	5:00 AM	1.57 in.	Highland	n/a	n/a	n/a	n/a	
08/11/2002	3:00 AM	2.70 in.	Alton Highland	n/a	n/a	n/a	n/a	
08/19/2002 thru 08/20/2002	6:30 AM	1.77 in.	Alton Highland	n/a	n/a	n/a	n/a	
09/19/2002 thru 09/21/2002	12:00 PM	2.58 in.	Alton Highland	n/a	n/a	n/a	n/a	
10/02/2002 thru 10/03/2002	7:00 PM	1.97 in.	Alton	n/a	n/a	n/a	n/a	

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1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
12/17/2002 thru 12/18/2002	11:00 PM	1.52 in.	Alton	n/a	n/a	n/a	n/a	
05/04/2003 thru 05/05/2003	5:30 AM	1.87 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
05/10/2003	7:30 AM	1.67 in.	Alton Highland	n/a	n/a	n/a	n/a	
06/10/2003 thru 06/13/2003	6:30 AM	3.98 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
06/25/2003 thru 06/26/2003	8:00 PM	3.77 in.	Alton Edwardsville Wood River Highland	n/a	n/a	n/a	n/a	
07/18/2003	6:30 AM	2.90 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
08/04/2003	1:30 AM	1.71 in.	Highland	n/a	n/a	n/a	n/a	
08/31/2003 thru 09/02/2003	12:00 AM	6.26 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
10/10/2003	n/a	1.75 in.	Alton	n/a	n/a	n/a	n/a	

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1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
11/17/2003 thru 11/18/2003	3:00 PM	3.98 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	Heavy rain over a 12 to 24-hour period caused widespread flooding
01/03/2004 thru 01/04/2004	3:00 PM	2.49 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
01/16/2004 thru 01/17/2004	4:00 PM	1.65 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
03/03/2004 thru 03/04/2004	6:00 AM	2.00 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
04/24/2004	7:00 AM	1.70 in.	Alton	n/a	n/a	n/a	n/a	
05/01/2004	1:30 AM	2.31 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
05/13/2004 thru 05/14/2004	7:00 AM	3.46 in.	Alton Edwardsville	n/a	n/a	n/a	n/a	
05/25/2004 thru 05/27/2004	12:00 AM	4.36 in.	Alton Edwardsville Highland Livingston	n/a	n/a	n/a	n/a	Two consecutive days of 2 to 3 inches of rain caused flash flooding across much of the area
05/30/2004	3:00 PM	1.53 in.	Alton	n/a	n/a	n/a	n/a	

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1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
06/16/2004	6:00 AM	4.97 in.	Alton Wood River	n/a	n/a	n/a	n/a	Heavy rain caused localized flash flooding
07/02/2004 thru 07/06/2004	6:00 PM	2.63 in.	Alton Edwardsville Granite City	n/a	n/a	n/a	n/a	Heavy rain caused flash flooding across the area
07/29/2004 thru 07/30/2004	11:00 PM	3.33 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
08/24/2004 thru 08/25/2004	2:00 PM	2.41 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
08/29/2004	n/a	2.10 in.	Highland	n/a	n/a	n/a	n/a	
09/18/2004	3:30 AM	2.66 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
11/11/2004	2:00 AM	2.02 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
11/24/2004	n/a	1.99 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
12/05/2004 thru 12/07/2004	4:00 PM	2.50 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

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Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
12/31/2004 thru 01/05/2005	11:00 PM	6.29 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	Heavy rain fell over 4 to 5 days causing general flooding across the area with numerous roads flooded
01/12/2005 thru 01/13/2005	9:00 PM	2.27 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
03/22/2005	3:00 AM	1.80 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
06/09/2005	n/a	1.65 in.	Edwardsville	n/a	n/a	n/a	n/a	
07/11/2005 thru 07/12/2005	2:00 PM	2.26 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
08/15/2005 thru 08/16/2005	2:00 PM	1.89 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
08/25/2005 thru 08/26/2005	9:30 AM	2.75 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
09/18/2005 thru 09/20/2005	10:00 PM	2.38 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
09/25/2005	12:00 AM	2.04 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	

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Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
11/27/2005 thru 11/28/2005	12:00 AM	2.25 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
03/08/2006 thru 03/13/2006	2:30 AM	3.10 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
09/17/2006	n/a	1.60 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
10/16/2006 thru 10/17/2006	7:00 AM	2.75 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
10/25/2006 thru 10/27/2006	2:30 PM	1.96 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
12/20/2006	5:00 AM	2.02 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
01/12/2007 thru 01/15/2007	12:30 PM	3.35 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
05/09/2007	n/a	1.50 in.	Highland	n/a	n/a	n/a	n/a	
05/10/2007	2:00 PM	1.93 in.	Alton	n/a	n/a	n/a	n/a	

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07/10/2007 thru 07/11/2007	n/a	1.60 in.	Highland	n/a	n/a	n/a	n/a	
10/02/2007 thru 10/03/2007	9:00 PM	1.76 in.	Alton	n/a	n/a	n/a	n/a	
10/18/2007	n/a	1.54 in.	Highland	n/a	n/a	n/a	n/a	
01/08/2008	12:00 AM	1.72 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
02/05/2008 thru 02/06/2008	12:00 AM	2.82 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
03/18/2008 thru 03/19/2008	9:00 AM	4.20 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
03/26/2008 thru 03/28/2008	3:00 PM	2.88 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
04/10/2008	1:00 AM	3.48 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
05/08/2008	6:00 AM	3.22 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	

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Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
05/10/2008 thru 05/11/2008	4:00 PM	2.02 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
05/25/2008	10:00 AM	3.69 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
05/30/2008	8:00 PM	1.03 in.	Alton Edwardsville Bethalto Highland	n/a	n/a	n/a	n/a	Heavy rain over a 2 ½ hour period caused localized flash flooding in the northern portions of the County, leading to road closures
06/06/2008	n/a	3.00 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
07/03/2008 thru 07/04/2008	n/a	3.07 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	Heavy rain fell on already saturated soils across the area causing flash flooding in the eastern portion of the County
07/30/2008 thru 07/31/2008	n/a	2.76 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
09/03/2008 thru 09/04/2008	11:30 PM	2.99 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
09/11/2008	8:00 AM	1.52 in.	Edwardsville	n/a	n/a	n/a	n/a	

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09/14/2008	6:00 AM	4.01 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
12/27/2008 thru 12/28/2008	n/a	2.27 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
02/10/2009 thru 02/12/2009	n/a	2.83 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
04/10/2009	n/a	2.01 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
04/28/2009	n/a	1.51 in.	Highland	n/a	n/a	n/a	n/a	
05/07/2009 thru 05/08/2009	n/a	1.72 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
05/25/2009 thru 05/26/2009	n/a	7.28 in.	countywide	n/a	n/a	n/a	n/a	Several rounds of thunderstorms slowly moved over the County dumping more than 7 inches of rain and causing flash flooding countywide
06/16/2009 thru 06/17/2009	n/a	2.03 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
07/04/2009 thru 07/05/2009	n/a	3.51 in.	Alton Edwardsville Highland	n/a	n/a	$35,000	n/a	Heavy rains caused a berm at the wastewater treatment facility to give way

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Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
08/17/2009 thru 08/18/2009	n/a	3.06 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
10/09/2009	n/a	3.44 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
10/14/2009 thru 10/15/2009	n/a	1.66 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
10/23/2009	n/a	2.35 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
10/30/2009 thru 10/31/2009	n/a	3.74 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
11/16/2009 thru 11/17/2009	n/a	3.25 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
12/23/2009 thru 12/25/2009	n/a	4.23 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
01/24/2010	n/a	1.50 in.	Alton	n/a	n/a	n/a	n/a	
04/24/2010 thru 04/25/2010	n/a	1.83 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

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Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
05/11/2010 thru 05/12/2010	n/a	2.18 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
05/16/2010 thru 05/17/2010	n/a	2.81 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
05/27/2010	n/a	2.80 in.	Highland	n/a	n/a	n/a	n/a	
06/01/2010 thru 06/02/2010	n/a	1.64 in.	Alton	n/a	n/a	n/a	n/a	
06/15/2010 thru 06/16/2010	n/a	1.95 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
07/09/2010	n/a	2.08 in.	Alton	n/a	n/a	n/a	n/a	
07/20/2010 thru 07/21/2010	n/a	2.50 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
08/14/2010	n/a	1.99 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
08/20/2010	n/a	2.83 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
09/01/2010 thru 09/02/2010	n/a	1.87 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
09/10/2010 thru 09/11/2010	n/a	2.45 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
11/23/2010 thru 11/25/2010	n/a	4.47 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
03/05/2011	n/a	1.87 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
04/19/2011	n/a	2.49 in.	Alton	n/a	n/a	n/a	n/a	
04/23/2011 thru 04/24/2011	n/a	2.46 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	***This event is part of a state disaster proclamation***
05/25/2011 thru 05/26/2011	n/a	1.72 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
06/14/2011 thru 06/15/2011	n/a	2.54 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
06/18/2011 thru 06/19/2011	n/a	1.85 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
06/26/2011 thru 06/27/2011	n/a	2.40 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
07/04/2011	n/a	1.53 in.	Alton Highland	n/a	n/a	n/a	n/a	
09/03/2011	n/a	1.59 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
09/14/2011 thru 09/15/2011	n/a	1.67 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
09/19/2011	n/a	1.52 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
02/04/2012	n/a	1.56 in.	Alton	n/a	n/a	n/a	n/a	
04/14/2012 thru 04/16/2012	n/a	3.39 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
04/28/2012	n/a	1.78 in.	Alton Edwardsville	n/a	n/a	n/a	n/a	
09/01/2012 thru 09/02/2012	n/a	2.46 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
09/26/2012	n/a	3.93 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
01/30/2013	n/a	1.68 in.	Edwardsville Alton	n/a	n/a	n/a	n/a	
04/11/2013	n/a	1.51 in.	Edwardsville	n/a	n/a	n/a	n/a	
04/17/2013 thru 04/19/2013	n/a	4.47 in.	Edwardsville	n/a	n/a	n/a	n/a	
05/03/2013 thru 05/04/2013	n/a	3.28 in.	Alton Edwardsville	n/a	n/a	n/a	n/a	
05/21/2013	n/a	1.69 in.	Edwardsville	n/a	n/a	n/a	n/a	
06/01/2013	n/a	1.85 in.	Edwardsville	n/a	n/a	n/a	n/a	
06/18/2013	n/a	1.68 in.	Edwardsville	n/a	n/a	n/a	n/a	
04/03/2014 thru 04/04/2014	n/a	3.68 in.	Edwardsville	n/a	n/a	n/a	n/a	
04/28/2014 thru 04/29/2014	n/a	3.45 in.	Edwardsville	n/a	n/a	n/a	n/a	
06/01/2014	n/a	1.68 in.	Edwardsville	n/a	n/a	n/a	n/a	
07/15/2014	n/a	1.73 in.	Edwardsville	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
08/07/2014 thru 08/08/2014	n/a	2.90 in.	Edwardsville Alton	n/a	n/a	n/a	n/a	
08/17/2014	n/a	1.59 in.	Edwardsville	n/a	n/a	n/a	n/a	
09/02/2014	n/a	2.05 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
10/02/2014	n/a	1.80 in.	Alton	n/a	n/a	n/a	n/a	
04/08/2015 thru 04/09/2015	n/a	2.95 in.	Edwardsville	n/a	n/a	n/a	n/a	
05/09/2015 thru 05/10/2015	n/a	3.30 in.	Highland Edwardsville	n/a	n/a	n/a	n/a	
06/08/2015	n/a	2.05 in.	Highland Edwardsville	n/a	n/a	n/a	n/a	
06/19/2015 thru 06/20/2015	n/a	2.87 in.	Highland	n/a	n/a	n/a	n/a	
07/02/2015	n/a	1.57 in.	Alton	n/a	n/a	n/a	n/a	
08/05/2015 thru 08/06/2015	n/a	4.68 in.	Highland Edwardsville Alton	n/a	n/a	n/a	n/a	
08/10/2015	n/a	1.94 in.	Edwardsville	n/a	n/a	n/a	n/a	
08/23/2015	n/a	1.64 in.	Alton	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
09/09/2015 thru 09/10/2015	n/a	2.22 in.	Highland	n/a	n/a	n/a	n/a	
11/17/2015 thru 11/18/2015	n/a	3.68 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
12/27/2015 thru 12/29/2015	n/a	10.78 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	***This event is part of a state disaster proclamation***
04/27/2016	n/a	1.79 in.	Alton	n/a	n/a	n/a	n/a	
05/12/2016 thru 05/13/2016	n/a	2.18 in.	Edwardsville	n/a	n/a	n/a	n/a	
07/03/2016 thru 07/04/2016	n/a	2.35 in.	Edwardsville	n/a	n/a	n/a	n/a	
07/20/2016 thru 07/21/2016	n/a	4.95 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
08/15/2016 thru 08/16/2016	n/a	4.83 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
08/27/2016	n/a	1.56 in.	Highland	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
09/09/2016 thru 09/10/2016	n/a	3.00 in.	Highland Alton Edwardsville	n/a	n/a	n/a	n/a	
09/16/2016 thru 09/17/2016	n/a	2.60 in.	Highland Edwardsville	n/a	n/a	n/a	n/a	
10/20/2016	n/a	4.45 in.	Edwardsville Alton Highland	n/a	n/a	n/a	n/a	
11/03/2016	n/a	2.70 in.	Alton Edwardsville	n/a	n/a	n/a	n/a	
03/01/2017	n/a	2.01 in.	Alton	n/a	n/a	n/a	n/a	
04/05/2017 thru 04/06/2017	n/a	2.21 in.	Edwardsville	n/a	n/a	n/a	n/a	
04/29/2017 thru 04/30/2017	n/a	5.49 in.	Edwardsville Alton Highland	n/a	n/a	n/a	n/a	
05/01/2017	n/a	2.16 in.	Alton	n/a	n/a	n/a	n/a	
05/04/2017 thru 05/05/2017	n/a	2.94 in.	Edwardsville Highland Alton	n/a	n/a	n/a	n/a	
06/18/2017	n/a	2.59 in.	Edwardsville	n/a	n/a	n/a	n/a	
07/23/2017	n/a	2.11 in.	Edwardsville	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
07/27/2017 thru 07/28/2017	n/a	2.57 in.	Highland Edwardsville	n/a	n/a	n/a	n/a	
08/17/2017	n/a	1.90 in.	Highland	n/a	n/a	n/a	n/a	
08/22/2017	n/a	1.56 in.	Alton	n/a	n/a	n/a	n/a	
10/10/2017 thru 10/11/2017	n/a	2.57 in.	Edwardsville Alton	n/a	n/a	n/a	n/a	
02/20/2018 thru 02/21/2018	n/a	3.12 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
02/24/2018 thru 02/25/2018	n/a	2.64 in.	Highland Edwardsville	n/a	n/a	n/a	n/a	
03/27/2018 thru 03/29/2018	n/a	2.10 in.	Alton Edwardsville	n/a	n/a	n/a	n/a	
04/14/2018 thru 04/15/2018	n/a	1.74 in.	Highland	n/a	n/a	n/a	n/a	
06/29/2018	n/a	2.25 in.	Alton Edwardsville	n/a	n/a	n/a	n/a	
07/04/2018	n/a	1.81 in.	Edwardsville	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
07/15/2018	n/a	3.16 in.	Edwardsville Highland Alton	n/a	n/a	n/a	n/a	
08/25/2018	n/a	3.75 in.	Highland Alton	n/a	n/a	n/a	n/a	
09/08/2018 thru 09/09/2018	n/a	2.31 in.	Edwardsville	n/a	n/a	n/a	n/a	
04/18/2019 thru 04/19/2019	n/a	2.16 in.	Alton	n/a	n/a	n/a	n/a	
05/01/2019	n/a	2.36 in.	Edwardsville Alton	n/a	n/a	n/a	n/a	
05/21/2019 thru 05/22/2019	n/a	2.08 in.	Edwardsville Alton	n/a	n/a	n/a	n/a	
06/16/2019	n/a	2.28 in.	Highland	n/a	n/a	n/a	n/a	
06/18/2019	n/a	3.03 in.	Highland	n/a	n/a	n/a	n/a	
06/27/2019	n/a	2.18 in.	Edwardsville	n/a	n/a	n/a	n/a	
07/06/2019	n/a	4.00 in.	Highland	n/a	n/a	n/a	n/a	
07/22/2019	n/a	4.49 in.	Alton Edwardsville	n/a	n/a	n/a	n/a	

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Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
08/12/2019 thru 08/13/2019	n/a	8.52 in.	Highland Edwardsville Granite City Alton	n/a	n/a	n/a	n/a	
08/26/2019 thru 08/27/2019	n/a	2.40 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
01/10/2020 thru 01/11/2020	n/a	4.47 in.	Highland Edwardsville Alton	n/a	n/a	n/a	n/a	
01/18/2020	n/a	1.98 in.	Highland Edwardsville Alton	n/a	n/a	n/a	n/a	
04/29/2020 thru 04/30/2020	n/a	2.22 in.	Edwardsville Highland Alton	n/a	n/a	n/a	n/a	
05/17/2020 thru 05/18/2020	n/a	4.62 in.	Alton Highland Edwardsville	n/a	n/a	n/a	n/a	
05/28/2020	n/a	2.53 in.	Highland	n/a	n/a	n/a	n/a	
06/21/2020	n/a	1.84 in.	Edwardsville	n/a	n/a	n/a	n/a	
07/01/2020 thru 07/02/2020	n/a	3.79 in.	Edwardsville Alton Highland	n/a	n/a	n/a	n/a	
07/16/2020	n/a	1.61 in.	Edwardsville	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

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Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
07/20/2020	n/a	1.62 in.	Edwardsville	n/a	n/a	n/a	n/a	
07/22/2020	n/a	2.84 in.	Edwardsville Alton	n/a	n/a	n/a	n/a	
08/10/2020 thru 08/11/2020	n/a	2.57 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	
10/21/2020	n/a	2.18 in.	Highland	n/a	n/a	n/a	n/a	
11/22/2020	n/a	1.54 in.	Highland	n/a	n/a	n/a	n/a	
03/18/2021 thru 03/19/2021	n/a	2.72 in.	Highland Edwardsville Alton	n/a	n/a	n/a	n/a	
06/25/2021	n/a	1.90 in.	Alton Highland Edwardsville	n/a	n/a	n/a	n/a	
06/27/2021	n/a	1.63 in.	Highland	n/a	n/a	n/a	n/a	
07/10/2021 thru 07/11/2021	n/a	2.80 in.	Alton Edwardsville	n/a	n/a	n/a	n/a	
07/16/2021	n/a	1.84 in.	Highland	n/a	n/a	n/a	n/a	
07/30/2021	n/a	2.04 in.	Highland	n/a	n/a	n/a	n/a	
08/09/2021	n/a	2.06 in.	Highland Alton Edwardsville	n/a	n/a	n/a	n/a	
08/31/2021	n/a	1.81 in.	Edwardsville Highland	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
09/21/2021	n/a	1.59 in.	Highland	n/a	n/a	n/a	n/a	
10/15/2021	n/a	2.18 in.	Highland	n/a	n/a	n/a	n/a	
02/17/2022	n/a	2.02 in.	Highland	n/a	n/a	n/a	n/a	
03/06/2022 thru 03/07/2022	n/a	2.68 in.	Alton Edwardsville Highland^	n/a	n/a	n/a	n/a	
03/31/2022	n/a	3.11 in.	Highland Edwardsville	n/a	n/a	n/a	n/a	
05/20/2022	n/a	1.50 in.	Alton	n/a	n/a	n/a	n/a	
05/22/2022	n/a	1.58 in.	Highland	n/a	n/a	n/a	n/a	
06/26/2022	n/a	1.58 in.	Highland	n/a	n/a	n/a	n/a	
07/07/2022	n/a	2.05 in.	Highland	n/a	n/a	n/a	n/a	
07/26/2022 thru 07/27/2022	n/a	5.15 in.	Alton Edwardsville Highland	n/a	n/a	n/a	n/a	
07/29/2022	n/a	1.61 in.	Highland	n/a	n/a	n/a	n/a	
08/04/2022	n/a	1.75 in.	Alton	n/a	n/a	n/a	n/a	
10/25/2022 thru 10/26/2022	n/a	3.30 in.	Edwardsville Alton	n/a	n/a	n/a	n/a	
03/03/2023 thru 03/04/2023	n/a	2.33 in.	Edwardsville Alton	n/a	n/a	n/a	n/a	

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 4
Severe Storms - Heavy Rain Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Magnitude Rainfall (inches)	Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
03/24/2023	n/a	2.02 in.	Highland Edwardsville Alton	n/a	n/a	n/a	n/a	
04/16/2023	n/a	1.67 in.	Alton	n/a	n/a	n/a	n/a	
07/02/2023	n/a	2.58 in.	Highland Edwardsville	n/a	n/a	n/a	n/a	
07/30/2023	n/a	2.43 in.	Edwardsville	n/a	n/a	n/a	n/a	
08/27/2023	n/a	2.50 in.	Alton	n/a	n/a	n/a	n/a	
09/27/2023	n/a	1.58 in.	Highland	n/a	n/a	n/a	n/a	
GRAND TOTAL:				**0**	**0**	**$35,000**	**$0**	

Sources: NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Cooperative Observation Forms.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Storm Events Database.

[1] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 5
Excessive Heat Events Reported in Madison County
1994 - 2023

Date(s)	Start Time	Magnitude - Temperature °F			Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
		Day (Max)	Night (Min)	Heat Index (Max)						
06/13/1994 thru 06/23/1994	12:00 AM	95 °F	73 °F	100 °F	Alton	n/a	n/a	n/a	n/a	Numerous people were treated at area hospitals for heat stroke or heat exhaustion.
07/05/1994 thru 07/07/1994	n/a	93 °F	76 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/12/1995 thru 07/17/1995	12:00 PM	100 °F	71 °F	120 °F	Alton	n/a	n/a	n/a	n/a	- Many roads throughout the region experienced buckling - 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
7/26/1995	n/a	96 °F	69 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/28/1995 thru 08/01/1995	12:00 PM	94 °F	69 °F	110 °F	Alton	n/a	n/a	n/a	n/a	Several people were treated in area hospitals for heat-related illnesses, mainly across metropolitan areas just east of St. Louis.
08/09/1995 thru 08/20/1995	1:00 PM	99 °F	73 °F	110 °F	Alton	n/a	n/a	n/a	n/a	Area crops suffered greatly form the hot and dry weather.
08/29/1995 thru 08/31/1995	n/a	95 °F	73 °F	n/a	Alton	n/a	n/a	n/a	n/a	

[1] Observed Location information, if available, was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in NOAA's Storm Events Database and the Midwestern Regional Climate Center's cli-MATE data system.

Table 5
Excessive Heat Events Reported in Madison County
1994 - 2023

Date(s)	Start Time	Magnitude - Temperature °F			Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
		Day (Max)	Night (Min)	Heat Index (Max)						
06/30/1996 thru 07/01/1996	n/a	94 °F	71 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/18/1996 thru 07/19/1996	n/a	93 °F	73 °F	n/a	Alton	n/a	n/a	n/a	n/a	
08/06/1996 thru 08/08/1996	n/a	93 °F	73 °F	n/a	Alton	n/a	n/a	n/a	n/a	
8/17/1996	n/a	101 °F	53 °F	n/a	Alton	n/a	n/a	n/a	n/a	
08/21/1996 thru 08/23/1996	n/a	92 °F	75 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/14/1997 thru 07/29/1997	n/a	98 °F	66 °F	n/a	Alton	n/a	n/a	n/a	n/a	
08/16/1997 thru 08/17/1997	n/a	94 °F	78 °F	n/a	Alton	n/a	n/a	n/a	n/a	
06/24/1998 thru 06/30/1998	n/a	98 °F	70 °F	n/a	Alton	71	n/a	n/a	n/a	The bulk of the heat-related injuries that occurred in the County took place at an NHRA drag racing event at the Gateway International Raceway June 25-28.

[1] Observed Location information, if available, was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in NOAA's Storm Events Database and the Midwestern Regional Climate Center's cli-MATE data system.

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Date(s)	Start Time	Magnitude - Temperature °F			Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
		Day (Max)	Night (Min)	Heat Index (Max)						
07/07/1998 thru 07/10/1998	n/a	94 °F	73 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/19/1998 thru 07/23/1998	n/a	100 °F	73 °F	n/a	Alton	n/a	n/a	n/a	n/a	
8/5/1998	n/a	90 °F	74 °F	n/a	Alton	n/a	n/a	n/a	n/a	
08/24/1998 thru 08/27/1998	n/a	95 °F	68 °F	n/a	Alton	n/a	n/a	n/a	n/a	
09/06/1998 thru 09/07/1998	n/a	96 °F	72 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/18/1999 thru 07/31/1999	12:00 PM	100 °F	n/a °F	115 °F	Alton	10	1	n/a	n/a	An 86-year-old female was found dead in her home (no location provided).
09/03/1999 thru 09/05/1999	n/a	93 °F	69 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/08/2000 thru 07/16/2000	n/a	96 °F	71 °F	n/a	Alton	n/a	n/a	n/a	n/a	

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		Day (Max)	Night (Min)	Heat Index (Max)						
09/01/2000 thru 09/04/2000	n/a	94 °F	72 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/08/2001 thru 07/11/2001	n/a	95 °F	76 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
07/18/2001 thru 07/19/2001	n/a	90 °F	71 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
07/22/2001 thru 07/25/2001	n/a	100 °F	76 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/29/2001 thru 08/03/2001	11:00 AM	93 °F	72 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
08/07/2001 thru 08/10/2001	12:00 AM	95 °F	70 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
08/21/2001 thru 08/22/2001	12:00 PM	96 °F	71 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
06/03/2002 thru 06/04/2002	n/a	91 °F	74 °F	n/a	Alton	n/a	n/a	n/a	n/a	

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		Day (Max)	Night (Min)	Heat Index (Max)						
06/30/2002 thru 07/10/2002	n/a	95 °F	72 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
07/21/2002 thru 07/23/2002	n/a	95 °F	70 °F	115 °F	Alton	n/a	n/a	n/a	n/a	
07/26/2002 thru 08/06/2002	11:00 AM	95 °F	72 °F	115 °F	Alton	n/a	n/a	n/a	n/a	
07/04/2003 thru 07/09/2003	n/a	94 °F	73 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
7/28/2003	n/a	93 °F	74 °F	n/a	Alton	n/a	n/a	n/a	n/a	
08/16/2003 thru 08/18/2003	n/a	95 °F	73 °F	110 °F	Alton	n/a	n/a	n/a	n/a	The heat wave hit as most schools were opening, resulting in many schools reducing their schedule to a half day while a few closed altogether.
08/21/2003 thru 08/22/2003	n/a	100 °F	73 °F	110 °F	Alton	n/a	n/a	n/a	n/a	The heat wave hit as most schools were opening, resulting in many schools reducing their schedule to a half day while a few closed altogether.
08/26/2003 thru 08/29/2003	n/a	97 °F	72 °F	110 °F	Alton	n/a	n/a	n/a	n/a	

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		Day (Max)	Night (Min)	Heat Index (Max)						
6/12/2004	n/a	90 °F	75 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/11/2004 thru 07/14/2004	n/a	93 °F	74 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
07/22/2004 thru 07/23/2004	n/a	92 °F	73 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
06/23/2005 thru 07/01/2005	11:00 AM	97 °F	75 °F	105 °F	Alton	n/a	1	n/a	n/a	A 70-year-old woman died in Alton due to excessive heat.
07/17/2005 thru 07/27/2005	n/a	99 °F	67 °F	n/a	Alton	n/a	n/a	n/a	n/a	
08/02/2005 thru 08/05/2005	n/a	95 °F	73 °F	n/a	Alton	n/a	n/a	n/a	n/a	
08/08/2005 thru 08/14/2005	n/a	100 °F	73 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
08/18/2005 thru 08/21/2005	n/a	98 °F	75 °F	110 °F	Alton	n/a	n/a	n/a	n/a	

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		Day (Max)	Night (Min)	Heat Index (Max)						
09/08/2005 thru 09/14/2005	n/a	95 °F	71 °F	n/a	Alton	n/a	n/a	n/a	n/a	
09/23/2005 thru 01/00/1900	n/a	96 °F	73 °F	n/a	Alton	n/a	n/a	n/a	n/a	
9/23/2005	n/a	92 °F	74 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/02/2006 thru 07/04/2006	n/a	98 °F	76 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/12/2006 thru 07/20/2006	n/a	99 °F	70 °F	120 °F	Alton	1	n/a	n/a	n/a	- Severe thunderstorms roared through the Metro St. Louis area causing major power outages complicating the situation - Some residents were without power for a week to 10 days - According to the Granite City EMA Coordinator a water main break at the City's water tower on July 19th left the Gateway Medical Center without water for its cooling tower
07/25/2006 thru 08/04/2006	n/a	102 °F	71 °F	115 °F	Alton	n/a	1	n/a	n/a	An 80-year-old man died in his home in Edwardsville due to excessive heat.

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		Day (Max)	Night (Min)	Heat Index (Max)						
08/07/2006 thru 08/11/2006	n/a	98 °F	71 °F	115 °F	Alton	n/a	n/a	n/a	n/a	
8/27/2006	n/a	90 °F	76 °F	n/a	Alton	n/a	n/a	n/a	n/a	
09/09/2006 thru 09/10/2006	n/a	94 °F	68 °F	n/a	Alton	n/a	n/a	n/a	n/a	
10/03/2006 thru 10/04/2006	n/a	97 °F	68 °F	n/a	Alton	n/a	n/a	n/a	n/a	
06/16/2007 thru 06/17/2007	n/a	95 °F	72 °F	n/a	Alton	n/a	n/a	n/a	n/a	
7/19/2007	n/a	93 °F	74 °F	n/a	Alton	n/a	n/a	n/a	n/a	
08/02/2007 thru 08/16/2007	n/a	102 °F	73 °F	115 °F	Alton	6	2	n/a	n/a	- Many schools across the area went to an early dismissal schedule in order to combat the heat - Two deaths were reported in the County, a 53-year-old male and a 57-year-old male, both were found in homes that either did not have air conditioning or the air conditioning was not working
8/19/2007	n/a	90 °F	77 °F	n/a	Alton	n/a	n/a	n/a	n/a	

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		Day (Max)	Night (Min)	Heat Index (Max)						
08/21/2007 thru 08/24/2007	3:46 PM	95 °F	74 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
08/29/2007 thru 08/30/2007	n/a	97 °F	72 °F	n/a	Alton	n/a	n/a	n/a	n/a	
09/04/2007 thru 09/05/2007	n/a	94 °F	67 °F	n/a	Alton	n/a	n/a	n/a	n/a	
6/13/2007	n/a	90 °F	75 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/14/2008 thru 07/21/2008	n/a	97 °F	73 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
08/04/2008 thru 08/05/2008	11:29 AM	97 °F	74 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
09/01/2008 thru 09/02/2008	n/a	93 °F	71 °F	n/a	Alton	n/a	n/a	n/a	n/a	
06/17/2009 thru 06/28/2009	11:00 AM	96 °F	73 °F	115 °F	Alton	n/a	1	n/a	n/a	A 61-year-old Glen Carbon woman was found dead in her mobile home on the 23rd, the air conditioner in the home was not working.

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		Day (Max)	Night (Min)	Heat Index (Max)						
08/08/2009 thru 08/10/2009	12:00 PM	94 °F	72 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
06/18/2010 thru 06/23/2010	12:00 PM	95 °F	69 °F	115 °F	Alton	n/a	n/a	n/a	n/a	
06/26/2010 thru 06/27/2010	12:00 PM	97 °F	74 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
07/06/2010 thru 07/08/2010	n/a	96 °F	78 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/14/2010 thru 07/17/2010	12:00 PM	93 °F	74 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
07/21/2010 thru 07/24/2010	n/a	96 °F	72 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
07/28/2010 thru 07/30/2010	12:00 PM	94 °F	74 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
08/03/2010 thru 08/06/2010	10:00 AM	100 °F	69 °F	115 °F	Alton	n/a	n/a	n/a	n/a	

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		Day (Max)	Night (Min)	Heat Index (Max)						
08/08/2010 thru 08/21/2010	n/a	100 °F	65 °F	120 °F	Alton	n/a	n/a	n/a	n/a	
5/31/2011	n/a	90 °F	77 °F	n/a	Alton	n/a	n/a	n/a	n/a	
06/04/2011 thru 06/08/2011	12:00 PM	97 °F	69 °F	100 °F	Alton	n/a	n/a	n/a	n/a	
6/10/2011	n/a	96 °F	78 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/01/2011 thru 07/03/2011	12:00 PM	98 °F	71 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
07/06/2011 thru 07/13/2011	12:00 PM	97 °F	70 °F	115 °F	Alton	n/a	1	n/a	n/a	A 51-year old male was found dead in his mobile home (no location provided).
07/16/2011 thru 08/07/2011	12:00 PM	99 °F	74 °F	115 °F	Alton	n/a	3	n/a	n/a	- The Granite city EMA Coordinator indicated that cooling centers across the City were open for 3 weeks beginning on July 19th and extending through August 8th. - Three deaths were reported: a 74-year old male was found dead in his home; a 79-year old female was found dead in her home; and a 63-year old male was found dead in his home (no locations provided).

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		Day (Max)	Night (Min)	Heat Index (Max)						
08/19/2011 thru 08/20/2011	n/a	92 °F	74 °F	n/a	Alton	n/a	n/a	n/a	n/a	
08/23/2011 thru 08/24/2011	n/a	97 °F	68 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
08/31/2011 thru 09/03/2011	12:00 PM	98 °F	74 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
6/18/2012	n/a	93 °F	75 °F	n/a	Alton	n/a	n/a	n/a	n/a	
06/26/2012 thru 07/11/2012	n/a	106 °F	72 °F	115 °F	Alton	n/a	2	n/a	n/a	- An 88-year-old Troy woman was found dead in her home on the 8th, her air conditioner had been switched to "heat" instead of "cool". - A 56-year-old male was found dead in his home in Collinsville.
07/15/2012 thru 07/27/2012	n/a	104 °F	70 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
07/31/2012 thru 08/01/2012	12:00 PM	n/a °F	n/a °F	105 °F	Alton	n/a	n/a	n/a	n/a	

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		Day (Max)	Night (Min)	Heat Index (Max)						
08/03/2012 thru 08/04/2012	12:00 PM	94 °F	73 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
08/27/2012 thru 08/29/2012	n/a	94 °F	72 °F	n/a	Alton	n/a	n/a	n/a	n/a	
09/05/2012 thru 09/06/2012	1:00 PM	92 °F	70 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
6/12/2013	n/a	94 °F	74 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/08/2013 thru 07/10/2013	n/a	94 °F	71 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/17/2013 thru 07/20/2013	n/a	94 °F	75 °F	n/a	Alton	n/a	n/a	n/a	n/a	
7/22/2013	n/a	92 °F	73 °F	n/a	Alton	n/a	n/a	n/a	n/a	
08/26/2013 thru 09/01/2013	n/a	99 °F	77 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
09/09/2013 thru 09/11/2013	n/a	97 °F	74 °F	n/a	Alton	n/a	n/a	n/a	n/a	

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		Day (Max)	Night (Min)	Heat Index (Max)						
06/18/2014 thru 06/20/2014	n/a	94 °F	72 °F	n/a	Alton	n/a	n/a	n/a	n/a	
6/30/2014	11:00 AM	90 °F	76 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
7/12/2014	n/a	92 °F	78 °F	n/a	Alton	n/a	n/a	n/a	n/a	
7/26/2014	12:00 PM	93 °F	71 °F	108 °F	Alton	n/a	n/a	n/a	n/a	
08/21/2014 thru 08/31/2014	n/a	93 °F	71 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
9/4/2014	12:00 PM	91 °F	73 °F	106 °F	Alton	n/a	n/a	n/a	n/a	
6/22/2015	1:00 PM	89 °F	75 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
07/11/2015 thru 07/14/2015	n/a	93 °F	72 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
07/17/2015 thru 07/19/2015	3:55 AM	90 °F	80 °F	109 °F	Alton	n/a	n/a	n/a	n/a	
07/25/2015 thru 07/29/2015	n/a	93 °F	73 °F	118 °F	Alton	n/a	n/a	n/a	n/a	
06/11/2016 thru 06/17/2016	n/a	94 °F	72 °F	107 °F	Alton	n/a	n/a	n/a	n/a	

[1] Observed Location information, if available, was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in NOAA's Storm Events Database and the Midwestern Regional Climate Center's cli-MATE data system.

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		Day (Max)	Night (Min)	Heat Index (Max)						
06/19/2016 thru 06/27/2016	n/a	93 °F	70 °F	108 °F	Alton	n/a	n/a	n/a	n/a	
07/17/2016 thru 07/24/2016	11:00 AM	92 °F	58 °F	120 °F	Alton	n/a	n/a	n/a	n/a	
08/11/2016 thru 08/12/2016	12:00 PM	90 °F	73 °F	108 °F	Alton	n/a	n/a	n/a	n/a	
09/06/2016 thru 09/07/2016	11:00 AM	88 °F	74 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
07/09/2017 thru 07/13/2017	12:00 PM	95 °F	71 °F	108 °F	Alton	n/a	n/a	n/a	n/a	
07/18/2017 thru 07/23/2017	12:00 PM	102 °F	65 °F	115 °F	Alton	n/a	n/a	n/a	n/a	
7/26/2017	12:00 PM	90 °F	73 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
9/20/2017	n/a	95 °F	71 °F	n/a	Alton	n/a	n/a	n/a	n/a	
06/07/2018 thru 06/13/2018	n/a	91 °F	69 °F	105 °F	Alton	n/a	n/a	n/a	n/a	

[1] Observed Location information, if available, was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in NOAA's Storm Events Database and the Midwestern Regional Climate Center's cli-MATE data system.

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		Day (Max)	Night (Min)	Heat Index (Max)						
06/15/2018 thru 06/19/2018	11:00 AM	91 °F	70 °F	109 °F	Alton	n/a	n/a	n/a	n/a	
06/28/2018 thru 07/01/2018	3:00 PM	91 °F	68 °F	115 °F	Alton	n/a	n/a	n/a	n/a	
07/03/2018 thru 07/05/2018	n/a	93 °F	74 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
07/09/2018 thru 07/16/2018	n/a	93 °F	72 °F	108 °F	Alton	n/a	n/a	n/a	n/a	
08/26/2018 thru 08/28/2018	n/a	91 °F	76 °F	107 °F	Alton	n/a	n/a	n/a	n/a	
09/06/2018 thru 01/00/1900	n/a	90 °F	73 °F	n/a	Alton	n/a	n/a	n/a	n/a	
09/18/2018 thru 09/20/2018	n/a	91 °F	73 °F	n/a	Alton	n/a	n/a	n/a	n/a	
06/29/2019 thru 07/11/2019	n/a	94 °F	70 °F	109 °F	Alton	n/a	n/a	n/a	n/a	

[1] Observed Location information, if available, was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in NOAA's Storm Events Database and the Midwestern Regional Climate Center's cli-MATE data system.

Table 5
Excessive Heat Events Reported in Madison County
1994 - 2023

Date(s)	Start Time	Magnitude - Temperature °F			Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
		Day (Max)	Night (Min)	Heat Index (Max)						
07/17/2019 thru 07/21/2019	3:00 PM	92 °F	70 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
8/12/2019	12:00 PM	91 °F	73 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
8/19/2019	1:00 PM	n/a °F	n/a °F	105 °F	Alton	n/a	n/a	n/a	n/a	
09/10/2019 thru 09/13/2019	12:00 PM	89 °F	74 °F	102 °F	Alton	n/a	n/a	n/a	n/a	
07/05/2020 thru 07/11/2020	n/a	92 °F	71 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
07/17/2020 thru 07/19/2020	n/a	90 °F	70 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
07/25/2020 thru 07/26/2020	12:00 PM	91 °F	74 °F	105 °F	Alton	n/a	n/a	n/a	n/a	
08/09/2020 thru 08/10/2020	n/a	92 °F	69 °F	107 °F	Alton	n/a	n/a	n/a	n/a	
06/12/2021 thru 06/13/2021	n/a	91 °F	73 °F	n/a	Alton	n/a	n/a	n/a	n/a	

[1] Observed Location information, if available, was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in NOAA's Storm Events Database and the Midwestern Regional Climate Center's cli-MATE data system.

Table 5
Excessive Heat Events Reported in Madison County
1994 - 2023

Date(s)	Start Time	Magnitude - Temperature °F			Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
		Day (Max)	Night (Min)	Heat Index (Max)						
06/18/2021 thru 06/20/2021	1:00 PM	94 °F	71 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
07/21/2021 thru 07/28/2021	n/a	93 °F	73 °F	112 °F	Alton	n/a	n/a	n/a	n/a	
08/07/2021 thru 08/12/2021	n/a	94 °F	72 °F	113 °F	Alton	n/a	n/a	n/a	n/a	
08/20/2021 thru 08/28/2021	n/a	96 °F	74 °F	110 °F	Alton	n/a	n/a	n/a	n/a	
9/19/2021	n/a	93 °F	77 °F	n/a	Alton	n/a	n/a	n/a	n/a	
06/13/2022 thru 06/16/2022	11:00 AM	96 °F	65 °F	113 °F	Alton	n/a	n/a	n/a	n/a	
07/04/2022 thru 07/07/2022	12:00 PM	96 °F	73 °F	111 °F	Alton	n/a	n/a	n/a	n/a	
07/16/2022 thru 07/17/2022	n/a	94 °F	71 °F	n/a	Alton	n/a	n/a	n/a	n/a	

[1] Observed Location information, if available, was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in NOAA's Storm Events Database and the Midwestern Regional Climate Center's cli-MATE data system.

Table 5
Excessive Heat Events Reported in Madison County
1994 - 2023

Date(s)	Start Time	Magnitude - Temperature °F			Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
		Day (Max)	Night (Min)	Heat Index (Max)						
07/20/2022 thru 07/24/2022	n/a	97 °F	73 °F	111 °F	Alton	n/a	n/a	n/a	n/a	
8/3/2022	1:00 PM	91 °F	72 °F	107 °F	Alton	n/a	n/a	n/a	n/a	
08/06/2022 thru 08/08/2022	11:00 AM	91 °F	71 °F	109 °F	Alton	n/a	n/a	n/a	n/a	
9/21/2022	n/a	93 °F	72 °F	n/a	Alton	n/a	n/a	n/a	n/a	
06/24/2023 thru 06/25/2023	n/a	93 °F	74 °F	n/a	Alton	n/a	n/a	n/a	n/a	
06/29/2023 thru 06/30/2023	10:00 AM	92 °F	73 °F	109 °F	Alton	n/a	n/a	n/a	n/a	
07/04/2023 thru 07/05/2023	n/a	90 °F	75 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/11/2023 thru 07/14/2023	n/a	92 °F	73 °F	n/a	Alton	n/a	n/a	n/a	n/a	
07/25/2023 thru 07/29/2023	n/a	99 °F	73 °F	114 °F	Alton	n/a	n/a	n/a	n/a	

[1] Observed Location information, if available, was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in NOAA's Storm Events Database and the Midwestern Regional Climate Center's cli-MATE data system.

Table 5
Excessive Heat Events Reported in Madison County
1994 - 2023

Date(s)	Start Time	Magnitude - Temperature °F			Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
		Day (Max)	Night (Min)	Heat Index (Max)						
08/20/2023 thru 08/25/2023	10:00 AM	100 °F	80 °F	120 °F	Alton	n/a	n/a	n/a	n/a	
GRAND TOTAL:						**88**	**12**	**$0**	**$0**	

Sources: Iowa State University, Iowa Environmental Mesonet, National Weather Service Data, Search for Warnings.
Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee Member responses to Critical Facilities Damaged by Natural Hazard Events Questionnaire.
Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee Member responses to the Natural Hazard Events Questionnaire - 2019.
Midwestern Regional Climate Center, cli-MATE.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Cooperative Observation Forms.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Storm Events Database.
The Southern Illinoisan.

[1] Observed Location information, if available, was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in NOAA's Storm Events Database and the Midwestern Regional Climate Center's cli-MATE data system.

Table 6
General Flood Events Reported in Madison County
1973 - 2023

Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
03/08/1973 thru 06/12/1973	n/a	Mississippi River	western portion of county	36.89 ft. 04/28/1973 5th highest crest on record				n/a	n/a	n/a	n/a	***This event is part of a federally-declared disaster (Declaration #373)*** Frequent and prolonged rains fell over large areas of the Mississippi basin in March and April and led to flooding along the Mississippi River.
03/22/1979 thru 05/19/1979	n/a	Mississippi River	western portion of county	32.42 ft.* 04/15/1979				n/a	n/a	n/a	n/a	***This event is part of a federally-declared disaster (Declaration #583)***
07/28/1981 thru 08/02/1981	n/a	Mississippi River	western portion of county	24.90 ft. 07/30/1981				n/a	n/a	n/a	n/a	
03/18/1982 thru 03/31/1982	n/a	Mississippi River	western portion of county	25.60 ft. 03/24/1982				n/a	n/a	n/a	n/a	

[1] Flood stage at gauge location is 21.0 feet, moderate flood stage is 29.0 feet and major flood stage is 34.0 feet.

[2] An "X" in the columns of Home, Business and Infrastructure indicates impacts occurred to those structure/infrastructure types during a general flood event. A detailed description of the type and magnitude of the impacts are included in the Impacts/Event Description column if available.

* Crest height obtained from USACE daily gage data and does not necessarily reflect peak crest, only the gage height at the time of the daily measurement.

Table 6
General Flood Events Reported in Madison County
1973 - 2023

Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
05/30/1982 thru 06/17/1982	n/a	Mississippi River	western portion of county	26.20 ft. 06/12/1982				n/a	n/a	n/a	n/a	
12/04/1982 thru 12/16/1982	n/a	Mississippi River	western portion of county	32.44 ft. 12/08/1982				n/a	n/a	n/a	n/a	***This event is part of a federally-declared disaster (Declaration #674)*** A combination of heavy rain fall and saturated soils produced severe flooding in a short amount of time along many streams and rivers in Illinois. COOP observer at Alton Melvin Price Lock and Dam 26 measured a total of 4.67 inches of rain between the 2nd and the 6th, with 4.17 inches falling between the evening of the 2nd and the morning of the 4th.

[1] Flood stage at gauge location is 21.0 feet, moderate flood stage is 29.0 feet and major flood stage is 34.0 feet.

[2] An "X" in the columns of Home, Business and Infrastructure indicates impacts occurred to those structure/infrastructure types during a general flood event. A detailed description of the type and magnitude of the impacts are included in the Impacts/Event Description column if available.

* Crest height obtained from USACE daily gage data and does not necessarily reflect peak crest, only the gage height at the time of the daily measurement.

Table 6
General Flood Events Reported in Madison County
1973 - 2023

Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
03/30/1983 thru 05/27/1983	n/a	Mississippi River	western portion of county	33.21 ft. 05/01/1983				n/a	n/a	n/a	n/a	
04/04/1984 thru 06/02/1984	n/a	Mississippi River	western portion of county	28.10 ft. 04/25/1984				n/a	n/a	n/a	n/a	
06/11/1984 thru 07/11/1984	n/a	Mississippi River	western portion of county	24.30 ft. 06/28/1984				n/a	n/a	n/a	n/a	
02/23/1985 thru 03/20/1985	n/a	Mississippi River	western portion of county	29.60 ft. 03/08/1985				n/a	n/a	n/a	n/a	
11/17/1985 thru 11/28/1985	n/a	Mississippi River	western portion of county	27.70 ft. 11/22/1985				n/a	n/a	n/a	n/a	
05/20/1986 thru 06/03/1986	n/a	Mississippi River	western portion of county	25.90 ft. 05/23/1986				n/a	n/a	n/a	n/a	
09/27/1986 thru 11/05/1986	n/a	Mississippi River	western portion of county	34.20 ft. 10/09/1986				n/a	n/a	n/a	n/a	

[1] Flood stage at gauge location is 21.0 feet, moderate flood stage is 29.0 feet and major flood stage is 34.0 feet.

[2] An "X" in the columns of Home, Business and Infrastructure indicates impacts occurred to those structure/infrastructure types during a general flood event. A detailed description of the type and magnitude of the impacts are included in the Impacts/Event Description column if available.

* Crest height obtained from USACE daily gage data and does not necessarily reflect peak crest, only the gage height at the time of the daily measurement.

Table 6
General Flood Events Reported in Madison County
1973 - 2023

Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
03/06/1993 thru 03/13/1993	n/a	Mississippi River	western portion of county	23.20 ft.* 03/10/1993				n/a	n/a	n/a	n/a	
04/03/1993 thru 05/28/1993	n/a	Mississippi River	western portion of county	30.80 ft. 04/18/1993				n/a	n/a	n/a	n/a	***This event is part of a federally-declared disaster (Declaration #997)***
06/08/1993 thru 10/08/1993	n/a	Mississippi River	western portion of county	42.72 ft. 08/01/1993 flood of record	X	X	X	n/a	n/a	$7,509,218	n/a	*Event Description Provided Below*

This event is part of a federally-declared disaster (Declaration #997)
In Alton, about 80 businesses were damaged and streets in the area flooded and buckled due to seepage and runoff. The Alton Levee failed at the beginning of August inundating the Alton water treatment facility and causing a three-week interruption in the supply of potable drinking water to over 70,000 people. Granite City and Venice experienced sewer line failures due to high ground water levels. IEMA identified $7,509,218 in public assistance approved by FEMA for the County.

[1] Flood stage at gauge location is 21.0 feet, moderate flood stage is 29.0 feet and major flood stage is 34.0 feet.

[2] An "X" in the columns of Home, Business and Infrastructure indicates impacts occurred to those structure/infrastructure types during a general flood event. A detailed description of the type and magnitude of the impacts are included in the Impacts/Event Description column if available.

* Crest height obtained from USACE daily gage data and does not necessarily reflect peak crest, only the gage height at the time of the daily measurement.

Table 6
General Flood Events Reported in Madison County
1973 - 2023

Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
04/12/1994 thru 04/18/1994	n/a	Mississippi River	western portion of county	38.20 ft. 04/14/1994 3rd highest crest on record	X	X	X	n/a	n/a	n/a	n/a	*Event Description Provided Below*
Heavy rains fell across the area over a 3-day period from the 10th through the 12th causing area rivers and streams to rise rather rapidly and exceed flood stages at many locations. Although the levels did not reach 1993 crest values, they were still high enough to cause widespread flooding of low lands and some towns near the Mississippi and Illinois Rivers. COOP observer at Alton Melvin Price Lock and Dam 26 measured a total of 4.42 inches of rain between the 10th and the 12th. Numerous homes and businesses were flooded once again, many of which had flooded only a year before.												
05/09/1995 thru 06/21/1995	6:00 PM	Mississippi River	western portion of county	35.10 ft. 05/22/1995 7th highest crest on record			X	n/a	n/a	$2,320,197	n/a	*Event Description Provided Below*
This event is part of a federally-declared disaster (Declaration #1053) A wet spring coupled with heavy rain during the middle of May led to serious flooding along area rivers. While the flood did cause a great deal of hardship and disruption to the economy and daily lives, it is estimated that the effects of the flood were 50% less than 1993. The Mississippi River was closed to barge traffic, bringing industry to a standstill. The riverboat gambling industry also suffered when boats were made inaccessible by flooding. IEMA identified $2,320,197 in public assistance approved by FEMA for the County.												
04/30/1996 thru 05/01/1996	n/a	Mississippi River	western portion of county	22.10 ft.* 04/30/1996				n/a	n/a	n/a	n/a	***This event is part of a federally-declared disaster (Declaration #1112)***

[1] Flood stage at gauge location is 21.0 feet, moderate flood stage is 29.0 feet and major flood stage is 34.0 feet.

[2] An "X" in the columns of Home, Business and Infrastructure indicates impacts occurred to those structure/infrastructure types during a general flood event. A detailed description of the type and magnitude of the impacts are included in the Impacts/Event Description column if available.

* Crest height obtained from USACE daily gage data and does not necessarily reflect peak crest, only the gage height at the time of the daily measurement.

Table 6
General Flood Events Reported in Madison County
1973 - 2023

Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
05/08/1996 thru 05/21/1996	n/a	Mississippi River	western portion of county	27.90 ft.* 05/16/1996				n/a	n/a	n/a	n/a	***This event is part of a federally-declared disaster (Declaration #1112)***
05/27/1996 thru 07/06/1996	n/a	Mississippi River	western portion of county	35.00 ft.* 06/02/1996 8th highest crest on record			X	n/a	n/a	$3,862,141	n/a	***This event is part of a federally-declared disaster (Declaration #1112*** Damage was primarily limited to agricultural lowlands, with a few towns closing some roads. IEMA identified $3,862,141 in public assistance approved by FEMA for the County
02/20/1997 thru 03/07/1997	n/a	Mississippi River	western portion of county	26.70 ft. 03/01/1997				n/a	n/a	n/a	n/a	
04/14/1997 thru 04/30/1997	n/a	Mississippi River	western portion of county	25.70 ft. 04/20/1997				n/a	n/a	n/a	n/a	

[1] Flood stage at gauge location is 21.0 feet, moderate flood stage is 29.0 feet and major flood stage is 34.0 feet.

[2] An "X" in the columns of Home, Business and Infrastructure indicates impacts occurred to those structure/infrastructure types during a general flood event. A detailed description of the type and magnitude of the impacts are included in the Impacts/Event Description column if available.

* Crest height obtained from USACE daily gage data and does not necessarily reflect peak crest, only the gage height at the time of the daily measurement.

Table 6
General Flood Events Reported in Madison County
1973 - 2023

Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
04/03/1998 thru 04/28/1998	n/a	Mississippi River	western portion of county	28.10 ft. 04/18/1998				n/a	n/a	n/a	n/a	
04/29/1998	6:30 PM	area rivers & streams	Godfrey	---			X	n/a	n/a	n/a	n/a	Rainfall of 2 to 4 inches fell across parts of Madison County causing local flooding. Several roads and streets were under water for a time in Godfrey. One creek overflowed in the Village when debris blocked a bridge under Davis Lane.

[1] Flood stage at gauge location is 21.0 feet, moderate flood stage is 29.0 feet and major flood stage is 34.0 feet.

[2] An "X" in the columns of Home, Business and Infrastructure indicates impacts occurred to those structure/infrastructure types during a general flood event. A detailed description of the type and magnitude of the impacts are included in the Impacts/Event Description column if available.

* Crest height obtained from USACE daily gage data and does not necessarily reflect peak crest, only the gage height at the time of the daily measurement.

Table 6
General Flood Events Reported in Madison County
1973 - 2023

Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
07/30/1998	9:00 AM	area rivers & streams	countywide	---			X	n/a	n/a	n/a	n/a	2 to 3 inches of rain caused some minor flooding across the County. A few roads were closed for short periods of time. One of the harder hit areas was unincorporated Mitchell where several roads had to be closed into the next day due to an overflowing draining creek.
08/08/2000	12:30 AM	area rivers & streams	Alton East Alton Wood River	---				X	n/a	n/a	n/a	2 to 3 inches of rain overnight caused some local flooding. Most of the flooding was due to ponding of water in low lying areas and the overflowing of storm drains.
03/19/2001 thru 03/20/2001	n/a	Mississippi River	western portion of county	21.50 ft. 03/19/2001				n/a	n/a	n/a	n/a	

[1] Flood stage at gauge location is 21.0 feet, moderate flood stage is 29.0 feet and major flood stage is 34.0 feet.

[2] An "X" in the columns of Home, Business and Infrastructure indicates impacts occurred to those structure/infrastructure types during a general flood event. A detailed description of the type and magnitude of the impacts are included in the Impacts/Event Description column if available.

* Crest height obtained from USACE daily gage data and does not necessarily reflect peak crest, only the gage height at the time of the daily measurement.

Table 6
General Flood Events Reported in Madison County
1973 - 2023

Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
04/25/2001 thru 05/26/2001	n/a	Mississippi River	western portion of county	25.91 ft. 05/21/2001		X	X	n/a	n/a	n/a	n/a	Several rounds of heavy rain coupled with continued rainfall and rapid snow melt in the upper Mississippi River Basin produced flooding along the Mississippi River. Some businesses in the Alton area were impacted by the high water.
06/04/2001 thru 06/27/2001	n/a	Mississippi River	western portion of county	28.90 ft. 06/09/2001			X	n/a	n/a	n/a	n/a	The Mississippi River reached flood stage again in June due primarily to flooding along the Missouri River. Many roads along the River were flooded as was farmland on the inside of levees.

[1] Flood stage at gauge location is 21.0 feet, moderate flood stage is 29.0 feet and major flood stage is 34.0 feet.

[2] An "X" in the columns of Home, Business and Infrastructure indicates impacts occurred to those structure/infrastructure types during a general flood event. A detailed description of the type and magnitude of the impacts are included in the Impacts/Event Description column if available.

* Crest height obtained from USACE daily gage data and does not necessarily reflect peak crest, only the gage height at the time of the daily measurement.

Table 6
General Flood Events Reported in Madison County
1973 - 2023

Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
05/08/2002 thru 05/24/2002	n/a	Mississippi River	western portion of county	31.90 ft.* 05/17/2002			X	n/a	n/a	n/a	n/a	***This event is part of a federally-declared disaster (Declaration #1416)*** Several heavy rain events at the end of April and beginning of May caused flooding along the Mississippi River. The main problem caused by the flooding was inconveniences created by closed roads. The main business affected by the flooding was tourism; river front attractions in many cities were shut down for a while due to flooding.
11/17/2003 thru 11/18/2003	7:00 AM	area rivers & streams	countywide	---				n/a	n/a	n/a	n/a	

[1] Flood stage at gauge location is 21.0 feet, moderate flood stage is 29.0 feet and major flood stage is 34.0 feet.

[2] An "X" in the columns of Home, Business and Infrastructure indicates impacts occurred to those structure/infrastructure types during a general flood event. A detailed description of the type and magnitude of the impacts are included in the Impacts/Event Description column if available.

* Crest height obtained from USACE daily gage data and does not necessarily reflect peak crest, only the gage height at the time of the daily measurement.

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General Flood Events Reported in Madison County
1973 - 2023

Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
05/28/2004 thru 05/30/2004	n/a	Mississippi River	western portion of county	22.16 ft. 05/29/2004				n/a	n/a	n/a	n/a	
01/05/2005 thru 01/07/2005	n/a	Mississippi River, area rivers & streams	countywide	22.58 ft. 01/06/2005	X		X	n/a	n/a	$290,040	n/a	3 to 6 inches of rain fell over 4 to 5 days causing general flooding across the area. Many small streams and creeks flooded throughout the region. Numerous roads were flooded and closed due to stream and creek flooding and excessive ponding of water on the roadways. In East Alton, several homes were damaged due to a slope failure along Oak Street. The Village received a $290,040 grant from IEMA to purchase and demolish two of the homes.

[1] Flood stage at gauge location is 21.0 feet, moderate flood stage is 29.0 feet and major flood stage is 34.0 feet.

[2] An "X" in the columns of Home, Business and Infrastructure indicates impacts occurred to those structure/infrastructure types during a general flood event. A detailed description of the type and magnitude of the impacts are included in the Impacts/Event Description column if available.

* Crest height obtained from USACE daily gage data and does not necessarily reflect peak crest, only the gage height at the time of the daily measurement.

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Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
05/10/2007 thru 05/16/2007	n/a	Mississippi River	western portion of county	22.76 ft. 05/11/2007				n/a	n/a	n/a	n/a	
03/19/2008 thru 03/25/2008	n/a	Mississippi River	western portion of county	24.44 ft. 03/21/2008				n/a	n/a	n/a	n/a	
04/11/2008 thru 05/20/2008	n/a	Mississippi River	western portion of county	25.38 ft. 04/13/2008				n/a	n/a	n/a	n/a	
06/05/2008 thru 07/13/2008	n/a	Mississippi River	western portion of county	33.08 ft. 06/30/2008		X	X	n/a	n/a	$3,014,400	n/a	*Event Description Provided Below*
This event is part of a federally-declared disaster (Declaration #1771) Several heavy rainfall events in May and June coupled with 2 major rainfall events in Wisconsin and Iowa resulted in major flooding along the Mississippi River between Grafton and Chester, Illinois. Some businesses in downtown Alton were flooded and IL Rte. 100 had to be closed. IEMA identified $3,014,400 in public assistance by FEMA for the County.												
07/29/2008 thru 08/02/2008	n/a	Mississippi River	western portion of county	24.06 ft. 08/01/2008				n/a	n/a	n/a	n/a	
09/15/2008 thru 09/22/2008	n/a	Mississippi River	western portion of county	29.89 ft. 09/18/2008				n/a	n/a	n/a	n/a	

[1] Flood stage at gauge location is 21.0 feet, moderate flood stage is 29.0 feet and major flood stage is 34.0 feet.

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Table 6
General Flood Events Reported in Madison County
1973 - 2023

Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
03/13/2009 thru 03/18/2009	n/a	Mississippi River	western portion of county	22.66 ft. 03/16/2009				n/a	n/a	n/a	n/a	
03/30/2009 thru 04/01/2009	n/a	Mississippi River	western portion of county	21.73 ft. 04/01/2009				n/a	n/a	n/a	n/a	
04/30/2009 thru 05/25/2009	n/a	Mississippi River	western portion of county	27.24 ft. 05/21/2009				n/a	n/a	n/a	n/a	
06/18/2009 thru 06/21/2009	n/a	Mississippi River	western portion of county	21.55 ft. 06/20/2009				n/a	n/a	n/a	n/a	
10/30/2009 thru 11/07/2009	n/a	Mississippi River	western portion of county	26.31 ft. 11/02/2009				n/a	n/a	n/a	n/a	
11/18/2009 thru 11/22/2009	n/a	Mississippi River	western portion of county	22.70 ft. 11/21/2009				n/a	n/a	n/a	n/a	
03/14/2010 thru 04/13/2010	n/a	Mississippi River	western portion of county	26.61 ft. 03/29/2010				n/a	n/a	n/a	n/a	

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					Home	Business	Infra-structure					
04/27/2010 thru 05/01/2010	n/a	Mississippi River	western portion of county	24.03 ft. 04/28/2010				n/a	n/a	n/a	n/a	
05/14/2010 thru 05/29/2010	n/a	Mississippi River	western portion of county	28.19 ft. 05/19/2010				n/a	n/a	n/a	n/a	
06/15/2010 thru 08/23/2010	n/a	Mississippi River	western portion of county	29.05 ft. 06/28/2010			X	n/a	n/a	n/a	n/a	Moderate flooding affected areas along the Mississippi River. Little damage was done other than some roads near the River were closed and some low-land farm fields flooded.
04/21/2011 thru 07/15/2011	n/a	Mississippi River	western portion of county	28.28 ft. 04/30/2011				n/a	n/a	n/a	n/a	
04/18/2013 thru 05/24/2013	n/a	Mississippi River	western portion of county	30.62 ft. 04/25/2013				n/a	n/a	n/a	n/a	

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Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
05/29/2013 thru 06/22/2013	n/a	Mississippi River	western portion of county	34.38 ft. 06/04/2013 10th highest crest on record				n/a	n/a	$2,000	n/a	
07/06/2014 thru 07/19/2014	n/a	Mississippi River	western portion of county	25.84 ft. 07/11/2014				n/a	n/a	n/a	n/a	
06/08/2015 thru 07/26/2015	n/a	Mississippi River	western portion of county	32.27 ft. 06/30/2015				n/a	n/a	n/a	n/a	
12/16/2015 thru 01/13/2016	n/a	Mississippi River	western portion of county	35.80 ft. 01/01/2016 6th highest crest on record				n/a	n/a	$41,549	n/a	***This event is part of a state proclamation*** The East Alton Fire Department Chief reported $41,549 in infrastructure damage in the Village.

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Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
04/07/2017 thru 04/11/2017	n/a	Mississippi River	western portion of county	22.67 ft. 04/09/2017				n/a	n/a	n/a	n/a	
04/30/2017 thru 06/07/2017	n/a	Mississippi River	western portion of county	34.86 ft. 05/06/2017 9th highest crest on record				n/a	n/a	n/a	n/a	
10/10/2018 thru 10/25/2018	n/a	Mississippi River	western portion of county	26.78 ft. 10/16/2018				n/a	n/a	n/a	n/a	

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Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
03/14/2019 thru 07/20/2019	n/a	Mississippi River	western portion of county	39.01 ft. 06/09/2019 2nd highest crest on record				n/a	n/a	$25,925,426	n/a	*Event Description Provided Below*
This event is part of a federally-declared disaster (Declaration #4461) ***This event is part of a state proclamation*** FEMA Public Assistance Figures by Jurisdiction: - Madison County EMA: $10,684 - Madison County Sheriff's Office: $85,265 - Madison County Special Service Area: $719,085 - Alton: $7,913,099 - Granite City: $1,153,026 - East Alton: $7,892 - Godfrey: $30,522 - America's Central Port: $8,763,876 - Metro East Sanitary District: $1,155,488 - City of Madison: $182,781 - Venice: $369,996 - Wood River Levee District: $390,434 - Nameoki Township: $19,212 Confirmed Damages not included in FEMA Public Assistance Figures: - Madison County Highway Department: $70,553 - Hartford: $3,513 - Granite City: $2,450,000 in building damages at the wastewater treatment plant (sbumitted to insurance) - Wood River Drainage & Levee District: $2,600,000 in moderate damage to infrastructure											
10/01/2019 thru 11/01/2019	n/a	Mississippi River	western portion of county	25.35 ft. 10/12/2019				n/a	n/a	n/a	n/a	-
01/12/2020 thru 01/14/2020	n/a	Mississippi River	western portion of county	23.33 ft. 01/13/2020				n/a	n/a	n/a	n/a	

[1] Flood stage at gauge location is 21.0 feet, moderate flood stage is 29.0 feet and major flood stage is 34.0 feet.

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Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
03/20/2020 thru 04/10/2020	n/a	Mississippi River	western portion of county	23.72 ft. 03/25/2020				n/a	n/a	n/a	n/a	
04/27/2020 thru 05/02/2020	n/a	Mississippi River	western portion of county	22.32 ft. 04/30/2020				n/a	n/a	n/a	n/a	
05/18/2020 thru 05/21/2020	n/a	Mississippi River	western portion of county	22.16 ft. 05/19/2020				n/a	n/a	n/a	n/a	
05/28/2020 thru 06/14/2020	n/a	Mississippi River	western portion of county	25.14 ft. 06/01/2020				n/a	n/a	n/a	n/a	
03/18/2021 thru 03/22/2021	n/a	Mississippi River	western portion of county	25.04 ft. 3/200/2021				n/a	n/a	n/a	n/a	
04/12/2021 thru 04/15/2021	n/a	Mississippi River	western portion of county	22.90 ft. 04/14/2021				n/a	n/a	n/a	n/a	
06/27/2021 thru 07/04/2021	n/a	Mississippi River	western portion of county	23.17 ft. 06/28/2021				n/a	n/a	n/a	n/a	

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Date(s)	Start Time	Water Body	Location(s)	Magnitude Flood Crest Mississippi River Melvin Price[1]	Impacts[2]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
					Home	Business	Infra-structure					
05/05/2022 thru 05/09/2022	n/a	Mississippi River	western portion of county	23.80 ft.* 05/07/2022				n/a	n/a	n/a	n/a	
GRAND TOTAL:								**0**	**0**	**$42,964,971**	**$0**	

Sources: IEMA-OHS, Recovery Branch.
Madison County Multi-Jurisdictional All Hazard Mitigation Planning Committee Member responses to the Natural Hazard Events Questionnaire.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Storm Data.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Storm Events Database.
NOAA, National Water Prediction Service Map.
United States Army Corps of Engineers, RiverGages.com, Data Mining.

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Table 7
Flash Flood Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Location(s)	Impacts[1]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
			Home	Business	Infra-structure					
09/23/1993	8:00 AM	Collinsville			X	n/a	n/a	$5,000	$5,000	Heavy rains resulted in flash flooding along IL Rte. 159.
04/28/1994	3:03 AM	countywide				n/a	n/a	n/a	n/a	
05/16/1995	5:10 AM	countywide			X	n/a	n/a	$7,700	n/a	***This event is part of a federally-declared disaster (Declaration #1053)*** Rain falling at a rate of 2.5 inches per hour produced widespread flash flooding, with Granite City especially hard hit. Numerous roads were closed due to flash flooding around Alton and Wood River.
05/16/1995 thru 05/18/1995	10:10 PM	countywide	X	X	X	n/a	n/a	$2,000,000	$90,000	***This event is part of a federally-declared disaster (Declaration #1053)*** Heavy rains caused widespread flash flooding across the County. Several highways and sections of nearby interstates were closed, and roadway intersections flooded. Especially hard hit were the Granite City, Pontoon Beach and Collinsville areas where evacuations were needed in several mobile home parks near and along Interstate 270. Fairmont Race track was completely flooded and the horses had to be evacuated.

[A] Flash flood event verified in the vicinity of this location(s).

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Flash Flood Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Location(s)	Impacts[1]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
			Home	Business	Infra-structure					
04/28/1996 thru 04/29/1996	8:30 PM	countywide			X	n/a	n/a	n/a	n/a	***This event is part of a federally-declared disaster (Declaration #1112)*** 3 to 6 inches of heavy rain caused flash flooding across much of the County with the worst flooding in the southern part of the county along the St. Clair County border. Most roads in the Horseshoe Lake Park area were impassable.
08/18/1998	6:30 AM	southwestern portion of county			X	n/a	n/a	n/a	n/a	Up to 4 inches of rain created havoc during morning rush hour as streets quickly flooded. IL Rte. 203 in the southwest portion of the County had to be closed.
06/13/1999	2:00 AM	western portion of county			X	n/a	n/a	n/a	n/a	Heavy early morning rain caused localized flash flooding. In Alton, several streets and underpasses became impassable.
06/24/2000	1:30 AM	countywide			X	n/a	n/a	n/a	n/a	3 to 4 inches of heavy rain fell the evening of the 23rd into the early morning of the 24th causing flash flooding across the area. Several non-paved rural roads had sections washed out due to water runoff.
07/19/2001	12:00 PM	Alton			X	n/a	n/a	n/a	n/a	3 to 4 inches of heavy rain caused flash flooding in Alton. Numerous roads had to be temporarily closed due to high water.

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Flash Flood Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Location(s)	Impacts[1]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
			Home	Business	Infra-structure					
05/12/2002 thru 05/13/2002	6:00 PM	countywide	X		X	n/a	n/a	n/a	n/a	***This event is part of a federally-declared disaster (Declaration #1416)*** Heavy rain caused flash flooding across the area. In the Godfrey and Bethalto areas, roads were closed due to flooding. IL Rte. 111 and US Rte. 67 were reported to have water at least waist deep in places. Numerous basements were also flooded in the Bethalto area.
06/10/2003	6:27 PM	countywide				n/a	n/a	n/a	n/a	
06/26/2003	1:00 AM	countywide		X	X	n/a	n/a	n/a	n/a	Heavy rain caused street and road flooding across much of the County. Flooding was reported in Alton, Wood River, and Edwardsville. In Wood River, mud slides occurred at a construction site resulting in roads being covered by up to 3 feet of mud.
05/27/2004	4:30 PM	countywide			X	n/a	n/a	n/a	n/a	Two consecutive days of 2 to 3 inches of rain caused flash flooding across much of the area. Flooding was reported on roads in and around Livingston.
06/16/2004	7:30 PM	Wood River Roxana East Alton Hartford South Roxana			X	n/a	n/a	n/a	n/a	Heavy rain caused localized flash flooding in Wood River and surrounding areas. IL Rte. 111 had to be closed because 1 ½ feet of water was running over it.
07/05/2004 thru 07/06/2004	8:45 PM	countywide			X	n/a	n/a	n/a	n/a	Heavy rain over several days caused flash flooding across the area. Streets were flooded and closed from Granite City south into St. Clair County.

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Flash Flood Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Location(s)	Impacts[1]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
			Home	Business	Infra-structure					
05/10/2007	3:35 PM	northern portion of county				n/a	n/a	n/a	n/a	
06/24/2007	1:05 PM	Livingston Livingston^			X	n/a	n/a	n/a	n/a	A couple of slow-moving thunderstorms brought heavy rain to the northern portion of the County causing isolated flash flooding. Several county roads were impassable.
04/10/2008	8:24 AM	countywide				n/a	n/a	n/a	n/a	
05/25/2008 thru 05/26/2008	9:09 PM	northern portion of county				n/a	n/a	n/a	n/a	
05/30/2008 thru 05/31/2008	10:00 PM	northern portion of county			X	n/a	n/a	n/a	n/a	Heavy rain over a 2 ½ hour period caused localized flash flooding in the northern portions of the County. IL Rte. 140 near the intersection of S. Prairie St. in Bethalto had to be closed.
06/06/2008	2:30 PM	western portion of county			X	n/a	n/a	$1,000	n/a	***This event is part of a federally-declared disaster (Declaration #1771)*** 2 to 3 inches of heavy rain fell in a short amount of time over the area. Numerous secondary roads were flooded including some in Granite City and IL Rte. 162 in Maryville. In Maryville, 3 people had to be rescued from a vehicle that slid off IL Rte. 162 and into a steep drainage ditch which had overflowed and was flooding the road.

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Flash Flood Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Location(s)	Impacts[1]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
			Home	Business	Infra-structure					
07/03/2008	6:35 PM	eastern portion of county			X	n/a	n/a	n/a	n/a	***This event is part of a federally-declared disaster (Declaration #1771)*** Up to 3 inches of rain fell on already saturated soils across the area causing flash flooding. Numerous roads were flooded including Walnut Rd. south of US Rte. 40 near Highland and IL Rte. 160 south of Highland.
09/14/2008	6:00 AM	countywide	X	X	X	n/a	n/a	$3,430,000	n/a	Flash flooding occurred across the area when very heavy rainfall from the remnants of Hurricane Ike fell onto already saturated soils. Between 3 and 5 inches fell in just under 6 hours. Numerous roads were flooded throughout the county. The Granite City EMA reported 60+ sewer backups and basement flooding that caused $900,000 in damages within the City. East Lake Drive in Edwardsville was washed out and the ESDA Coordinator indicated that the cost to rebuild the road was $1,000,000. Hamel sustained $30,000 in property and residential damage. County representatives indicated that there were at least $1,500,000 in damages sustained by the County.
12/27/2008	2:29 PM	countywide			X	n/a	n/a	n/a	n/a	Several inches of rain fell in a short amount of time on frozen ground causing flash flooding. Several streets were flooded in Godfrey and Bethalto.

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1993 - 2023

Date(s)	Start Time	Location(s)	Impacts[1]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
			Home	Business	Infra-structure					
05/25/2009 thru 05/26/2009	1:29 PM	countywide	X	X	X	n/a	n/a	$1,835,450	n/a	Several rounds of thunderstorms slowly moved over the County dumping up to 7 inches of rain and causing flash flooding countywide. Numerous roads were flooded countywide with some sustaining damage. Grant St. in Bethalto suffered a partial washout while several lanes were washed out in Edwardsville. One water rescue was performed on the Cahokia Creek Division Canal just west of Edwardsville. Hundreds of homes experienced water and sewage damage including: 9 homes in Bethalto; 1 home in Cottage Hills (full foundation collapse); 99 homes in Edwardsville (5 with full foundation collapse); 2 homes in unincorporated Edwardsville (bowing of foundation walls); 4 homes in Glen Carbon; and 116 homes in Holiday Shores. Four businesses in Edwardsville suffered water damage. Multiple buildings in SIUE campus were flooded with damages estimated at $400,000. Edwardsville also sustained an estimated $400,000 in damage while Holiday Shores sustained an estimated $1,035,450 ($56,500 of which was infrastructure damage).
10/08/2009	8:51 AM	countywide				n/a	n/a	n/a	n/a	
10/30/2009	7:02 AM	countywide				n/a	n/a	n/a	n/a	
05/12/2010	4:59 AM	countywide				n/a	n/a	n/a	n/a	

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Date(s)	Start Time	Location(s)	Impacts[1]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
			Home	Business	Infra-structure					
05/17/2010	2:30 AM	northwestern portion of county			X	n/a	n/a	n/a	n/a	2 to 3 inches of rain fell in a short amount of time on already saturated soils causing flash flooding. Several roads were flooded in the Alton area including Harris Ln. between Fosterburg Rd. and Seminary St.
06/15/2010	2:31 PM	countywide				n/a	n/a	n/a	n/a	
07/21/2010	6:23 PM	southwestern portion of county				n/a	n/a	n/a	n/a	
03/04/2011	6:20 PM	western portion of county				n/a	n/a	n/a	n/a	
04/19/2011	n/a	Alton East Alton Wood River			X	n/a	n/a	n/a	n/a	Heavy rain fell in a short amount of time causing flash flooding. Several roads were flooded including the East Alton Viaduct and South 14th St. in Wood River.
06/26/2011	12:21 AM	countywide				n/a	n/a	n/a	n/a	
04/18/2013	11:51 AM	countywide				n/a	n/a	n/a	n/a	
05/20/2013	10:22 PM	northwestern portion of county				n/a	n/a	n/a	n/a	

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1993 - 2023

Date(s)	Start Time	Location(s)	Impacts[1]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
			Home	Business	Infra-structure					
06/17/2013	2:35 PM	southeastern portion of county			X	n/a	n/a	n/a	n/a	Up to 5 inches of rain fell in a short amount of time causing flash flooding. Numerous roads were flooded in Edwardsville. There was at least a foot of water over IL Rte. 143 near intersection with I-70. Several roads in Collinsville were flooded with a couple of vehicles driven into the flood waters. A couple of people had to be rescued from their stranded cars.
06/23/2013	7:00 AM	countywide			X	n/a	n/a	n/a	n/a	Up to 7 inches of rain fell resulting in flash flooding. The most serious flash flooding was at the interchange of I-55 and IL Rte. 140 in Hamel; the interstate was flooded at the underpass, especially the north bound lanes; several feet of water was in this location with several cars stuck in the flood waters. Traffic had to be diverted off the highway for a time until the flood waters went down. Numerous roads in town were flooded as well as IL Rte. 143 and IL Rte. 4.
06/23/2013 thru 02/24/2013	6:19 PM	southwestern portion of county			X	n/a	n/a	n/a	n/a	Local law enforcement officials reported that numerous roads in Pontoon Beach were covered with standing water.
04/02/2014	2:12 PM	countywide				n/a	n/a	n/a	n/a	
06/19/2015	10:34 AM	eastern portion of county				n/a	n/a	n/a	n/a	

^ Flash flood event verified in the vicinity of this location(s).

[1] An "X" in the columns of Home, Business and Infrastructure indicates impacts occurred to those structure/infrastructure types during a flash flood event. A detailed description of the type and magnitude of the impacts are included in the Impacts/Event Description column if available.

Table 7
Flash Flood Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Location(s)	Impacts[1]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
			Home	Business	Infra-structure					
08/05/2015 thru 08/06/2015	10:36 PM	southern portion of county				n/a	n/a	n/a	n/a	
08/09/2015 thru 08/10/2015	9:00 PM	countywide			X	n/a	n/a	n/a	n/a	Up to 3 inches of rain fell in a short amount of time causing flash flooding. Several roads were flooded including Lebanon Rd. in Collinsville.
12/26/2015 thru 12/27/2015	5:00 PM	southern portion of county			X	n/a	n/a	n/a	n/a	***This event was part of a state proclamation*** Between 2 and 5 inches of rain fell causing flash flooding. Numerous roads were flooded including Marine Rd. A car was swept off the road in this location.
12/28/2015	8:30 AM	southern portion of county			X	n/a	n/a	$200,000	n/a	***This event was part of a state proclamation*** Between 3 and 5 inches fell across the County causing more flash flooding and erosion. Numerous roads were flooded and some washed out. Roads closed include IL Rte. 143 between Hwy 255 and IL Rte. 111, IL Rte. 143 at Silver Creek, US Hwy 40 between Triad and Schaeffer Rds. and IL Rte. 159 just north of the intersection with IL Rte. 143. Edwardsville storm sewers exceed capacity.

[A] Flash flood event verified in the vicinity of this location(s).

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Table 7
Flash Flood Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Location(s)	Impacts[1]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
			Home	Business	Infra-structure					
07/20/2016	6:45 AM	countywide			X	n/a	n/a	n/a	n/a	Up to 6 inches of rain fell in a short amount of time causing flash flooding. Numerous roads were flooded including the intersection of IL Rte. 140 at Prairie St. in Bethalto, a railroad under pass just northwest of Edwardsville, and several streets in Moro.
08/15/2016	7:50 AM	countywide			X	n/a	n/a	n/a	n/a	Up to 6 inches of rain fell on already saturated soils causing flash flooding. Numerous roads were flooded, especially in the Granite City area.
09/10/2016	4:19 AM	countywide				n/a	n/a	n/a	n/a	
07/27/2017	4:42 AM	northeastern portion of county				n/a	n/a	n/a	n/a	
07/22/2019	4:24 AM	western portion of county				n/a	n/a	n/a	n/a	
08/12/2019	5:00 AM	countywide			X	n/a	n/a	n/a	n/a	Up to 9 inches of rain fell over a 6-hour period causing flash flooding, especially in the Granite City area. The Granite City wastewater system underground pip system was compromised.
08/13/2019	2:14 AM	northeastern portion of county				n/a	n/a	n/a	n/a	
05/17/2020	2:02 AM	northwestern portion of county				n/a	n/a	n/a	n/a	

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Flash Flood Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Location(s)	Impacts[1]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
			Home	Business	Infra-structure					
7/19/2020 thru 07/20/2020	8:34 PM	southern portion of county				n/a	n/a	n/a	n/a	
08/09/2020	10:00 AM	southern & central portion of county			X	n/a	n/a	n/a	n/a	Up to 6 inches of rain fell in about a three hour period causing flash flooding. Several roads were flooded including some in the Collinsville and Glen Carbon areas. The intersection of Illinois Routes 162 and 157 was flooded. According to the Committee member from Glen Carbon, Judy Creek experienced an 8 fout surge at IL Rte. 162 @ IL Rte. 157 (5300 block of IL Rte. 162).
08/12/2020	9:41 AM	southern & central portion of county				n/a	n/a	n/a	n/a	
08/12/2021	7:40 PM	northeastern portion of county			X	n/a	n/a	n/a	n/a	Local law enforcement reported flooding on I-55 at Route 140 near Hamel.

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Flash Flood Events Reported in Madison County
1993 - 2023

Date(s)	Start Time	Location(s)	Impacts[1]			Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
			Home	Business	Infra-structure					
07/26/2022	2:47 AM	countywide				n/a	n/a	n/a	n/a	
07/28/2022	2:52 PM	southern portion of county				n/a	n/a	n/a	n/a	
GRAND TOTAL:						**0**	**0**	**$7,479,150**	**$95,000**	

Sources: Iowa State University, Iowa Environmental Mesonet, National Weather Service Data, Search for Warnings.
Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee Member responses to Critical Facilities Damaged by Natural Hazard Events Questionnaire.
Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee Member responses to the Natural Hazard Events Questionnaire.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Cooperative Observation Forms.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Storm Data.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Storm Events Database.

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Table 8
Severe Winter Storm Events Reported in Madison County
1950 - 2023

Date(s)	Start Time	Event Type	Magnitude[1]					Observed Location(s)[2]	Injuries	Fatalities	Property Damages	Impacts/ Event Description
			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
12/06/1950 thru 12/07/1950	n/a	Heavy Snow	5.2 in.					Edwardsville	n/a	n/a	n/a	
11/05/1951 thru 11/06/1951	6:00 PM	Heavy Snow	14.8 in.					Edwardsville	n/a	n/a	n/a	COOP observer noted that traffic and businesses were at a standstill and there was no school or church services.
03/01/1953 thru 03/02/1953	10:30 AM	Winter Storm	7.6 in.			X	X	Edwardsville Alton	n/a	n/a	n/a	COOP observer noted that the snow storm stopped traffic and pedestrian travel for hours.
01/29/1956 thru 01/30/1956	9:30 AM	Heavy Snow	5.0 in.					Alton	n/a	n/a	n/a	
01/31/1958	9:00 AM	Heavy Snow	13.8 in.					Edwardsville Alton	n/a	n/a	n/a	
03/08/1958 thru 03/09/1958	4:00 PM	Heavy Snow	10.0 in.					Edwardsville Alton	n/a	n/a	n/a	
03/02/1960 thru 03/03/1960	1:00 AM	Heavy Snow	9.3 in.					Edwardsville Alton	n/a	n/a	n/a	

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[2] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

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Severe Winter Storm Events Reported in Madison County
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Date(s)	Start Time	Event Type	Magnitude[1]					Observed Location(s)[2]	Injuries	Fatalities	Property Damages	Impacts/ Event Description
			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
03/08/1960 thru 03/09/1960	12:45 PM	Heavy Snow	7.0 in.					Edwardsville Alton	n/a	n/a	n/a	
02/02/1961	7:00 AM	Winter Storm	9.0 in.					Edwardsville Alton	n/a	n/a	n/a	Edwardsville COOP observer noted blowing and drifting snow.
01/05/1962 thru 01/06/1962	7:30 AM	Heavy Snow	9.0 in.					Edwardsville Alton	n/a	n/a	n/a	
01/11/1964 thru 01/13/1964	1:30 PM	Heavy Snow	9.0 in.					Edwardsville Alton	n/a	n/a	n/a	
02/15/1964	8:00 AM	Heavy Snow	5.0 in.					Edwardsville Alton	n/a	n/a	n/a	
03/09/1964 thru 03/10/1964	1:30 PM	Heavy Snow	6.0 in.					Edwardsville Alton	n/a	n/a	n/a	
01/31/1966 thru 02/01/1966	6:00 PM	Heavy Snow	8.5 in.					Edwardsville Alton	n/a	n/a	n/a	

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1950 - 2023

Date(s)	Start Time	Event Type	Magnitude[1]					Observed Location(s)[2]	Injuries	Fatalities	Property Damages	Impacts/ Event Description
			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
01/26/1967 thru 01/27/1967	n/a	Winter Storm	1.4 in.	X	1.75 in.			Edwardsville Alton	n/a	n/a	n/a	Ice accumulations were noted by the COOP observers on branches and power lines.
03/11/1968 thru 03/12/1968	9:30 PM	Heavy Snow	6.0 in.					Alton	n/a	n/a	n/a	
04/05/1971 thru 04/06/1971	8:00 AM	Heavy Snow	8.0 in.					Edwardsville Alton	n/a	n/a	n/a	
12/18/1973 thru 12/20/1973	5:45 PM	Heavy Snow	14.0 in.					Edwardsville Alton	n/a	n/a	n/a	
03/23/1974	9:30 AM	Heavy Snow	6.5 in.					Edwardsville Alton	n/a	n/a	n/a	
11/26/1975	8:30 AM	Heavy Snow	8.0 in.					Edwardsville Alton	n/a	n/a	n/a	
01/09/1977	6:00 AM	Heavy Snow	5.6 in.					Edwardsville	n/a	n/a	n/a	
11/26/1977 thru 11/27/1977	6:30 PM	Heavy snow	6.0 in.					Alton Highland	n/a	n/a	n/a	
12/05/1977	12:00 PM	Heavy Snow	5.0 in.					Edwardsville Alton	n/a	n/a	n/a	

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1950 - 2023

Date(s)	Start Time	Event Type	Magnitude[1]					Observed Location(s)[2]	Injuries	Fatalities	Property Damages	Impacts/ Event Description
			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
01/15/1978 thru 01/17/1978	6:00 PM	Heavy Snow	12.0 in.					Alton Highland	n/a	n/a	n/a	
03/06/1978 thru 03/08/1978	3:00 PM	Heavy Snow	14.0 in.					Alton Highland	n/a	n/a	n/a	
12/30/1978 thru 12/31/1978	2:30 PM	Winter Storm				1.5 in.		Alton	n/a	n/a	n/a	
01/23/1979	7:00 AM	Winter Storm	5.0 in.	X		X		Highland Edwardsville	n/a	n/a	n/a	
01/26/1979 thru 01/27/1979	8:30 PM	Heavy Snow	9.0 in.					Highland Edwardsville	n/a	n/a	n/a	
02/29/1980 thru 03/01/1980	6:00 PM	Heavy Snow	6.0 in.					Highland Edwardsville	n/a	n/a	n/a	
03/12/1980 thru 03/13/1980	8:00 AM	Heavy Snow	5.0 in.					Highland Edwardsville	n/a	n/a	n/a	

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Date(s)	Start Time	Event Type	Magnitude[1]					Observed Location(s)[2]	Injuries	Fatalities	Property Damages	Impacts/ Event Description
			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
11/26/1980 thru 11/28/1980	4:30 PM	Heavy Snow	9.0 in.					Highland Edwardsville	n/a	n/a	n/a	
02/09/1981 thru 02/10/1981	7:30 PM	Heavy Snow	6.0 in.					Highland Edwardsville	n/a	n/a	n/a	
01/29/1982 thru 01/31/1982	11:00 AM	Heavy Snow	20.0 in.					Highland Edwardsville	n/a	n/a	n/a	COOP obervers noted that schools, businesses, and roads were closed throughout the County and trees and power lines were downed.
02/08/1982 thru 02/09/1982	2:00 PM	Heavy Snow	6.0 in.					Edwardsville Alton	n/a	n/a	n/a	
02/25/1984 thru 02/28/1984	10:00 PM	Heavy Snow	7.7 in.					Edwardsville	n/a	n/a	n/a	
02/14/1986	12:00 AM	Heavy Snow	5.0 in.					Edwardsville	n/a	n/a	n/a	
01/09/1987 thru 01/10/1987	3:30 AM	Heavy Snow	11.1 in.					Edwardsville Alton	n/a	n/a	n/a	

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			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
01/17/1987 thru 01/19/1987	3:30 AM	Heavy Snow	12.0 in.					Edwardsville	n/a	n/a	n/a	
12/14/1987	8:30 AM	Heavy snow	6.0 in.					Highland Edwardsville	n/a	n/a	n/a	
02/10/1988	n/a	Heavy Snow	5.0 in.					Edwardsville	n/a	n/a	n/a	
12/26/1988 thru 12/27/1988	4:30 AM	Winter Storm	7.0 in.	X		X		Edwardsville	n/a	n/a	n/a	
03/05/1989 thru 03/06/1989	2:00 PM	Winter Storm	11.0 in.	X				Edwardsville	n/a	n/a	n/a	
12/14/1989 thru 12/15/1989	1:30 PM	Winter Storm	5.0 in.					Edwardsville	n/a	n/a	n/a	COOP Observer noted blowing and drifting snow.
03/23/1990 thru 03/24/1990	11:00 AM	Heavy Snow	9.0 in.					Alton Highland	n/a	n/a	n/a	
02/15/1993 thru 02/16/1993	1:00 PM	Heavy snow	7.0 in.					Alton Highland	n/a	n/a	n/a	

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			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
02/24/1993 thru 02/25/1993	9:00 PM	Heavy Snow	21.0 in.					Alton	n/a	n/a	n/a	
01/16/1994	10:30 AM	Heavy Snow	6.3 in.					Highland	n/a	n/a	n/a	
01/06/1995	2:00 AM	Ice Storm		X	0.75 in.	X			n/a	n/a	n/a	Numerous automobile accidents were reported and schools were closed across the region.
12/19/1995	1:00 AM	Winter Storm	3.6 in.	X		X		Edwardsville	n/a	n/a	n/a	- The morning commute for workers heading to St. Louis was brought to a virtual standstill with numerous traffic accidents reported - Schools throughout the regions were closed for the day

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			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
01/02/1996 thru 01/03/1996	2:00 AM	Winter Storm	5.3 in.				X	Highland Edwardsville	n/a	n/a	n/a	- Strong winds caused blowing and drifting snow which resulted in the closure of many county roads - Classes were cancelled at many area schools on the 3rd - Numerous vehicle accidents were attributed to slick roads and poor driving conditions
11/25/1996	2:00 PM	Winter Storm		X in.					n/a	n/a	n/a	- Numerous accidents occurred on slick roads - There were downed power lines scattered throughout the area
01/08/1997 thru 01/09/1997	6:00 PM	Winter Storm	5.1 in.				X	Highland Edwardsville	n/a	n/a	n/a	-blowing and drifting snow -schools remained closed for several days
01/15/1997 thru 01/16/1997	11:00 PM	Winter Storm	5.5 in.	X	X	X		Highland Edwardsville	n/a	n/a	n/a	- Numerous automobile accidents occurred - Some power outages took place - Most area schools were closed

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Date(s)	Start Time	Event Type	Magnitude[1]					Observed Location(s)[2]	Injuries	Fatalities	Property Damages	Impacts/ Event Description
			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
01/12/1998	2:00 AM	Winter Storm	X		X				n/a	n/a	n/a	Ice covered roads led to widespread early morning travel issues.
12/21/1998 thru 12/22/1998	12:00 AM	Winter Storm	X	X		X			n/a	n/a	n/a	Roads across the area became covered with a thin coating of ice by morning rush hour, causing numerous automobile accidents.
01/01/1999 thru 01/02/1999	6:00 PM	Winter Storm	7.6 in.	X	1.00 in.	X		Highland Edwardsville	n/a	n/a	n/a	- Transportation across the area came to a stop for much of the holiday weekend - Most area schools were closed
01/13/1999	4:30 AM	Ice Storm			0.25 in.				n/a	n/a	n/a	- Some trees and power lines were downed - Ice covered roads made travel difficult to impossible - Area schools were closed through the end of the week

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			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
01/17/2000	12:00 PM	Winter Storm		X					n/a	n/a	n/a	- Roads were covered with a thin layer of ice causing hazardous driving conditions - Numerous vehicle accidents were reported and quite a few cars ended up in ditches
03/11/2000	5:00 AM	Winter Storm	6.2 in.					Highland	n/a	n/a	n/a	
12/13/2000	6:00 AM	Heavy Snow	8.5 in.					Alton Highland	n/a	n/a	n/a	
01/26/2001	1:00 AM	Winter Storm		X	X				n/a	n/a	n/a	- Numerous traffic accidents were reported - Most schools across the area were closed
02/25/2002 thru 02/26/2002	8:00 PM	Winter Storm	2.8 in.				X	Highland	n/a	n/a	n/a	- Blowing and drifting snow - Numerous automobile accidents were reported - Most schools across the area were closed on the 26th
03/25/2002 thru 03/26/2002	6:00 PM	Winter Storm	1.5 in.			X		Edwardsville	n/a	n/a	n/a	A wintry mix led to extremely hazardous travel conditions across the area.

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			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
12/24/2002	6:00 AM	Winter Storm	5.3 in.					Highland	n/a	n/a	n/a	Snow made for difficult travel conditions through Christmas Day.
01/01/2003 thru 01/02/2003	8:00 PM	Winter Storm	3.7 in.			X		Highland Edwardsville	n/a	n/a	n/a	
02/15/2003 thru 02/16/2003	5:00 PM	Winter Storm	4.1 in.			X		Highland	n/a	n/a	n/a	Trees and power lines were downed.
01/25/2004	6:00 AM	Winter Storm	4.0 in.	0.5 in.		2.0 in.			n/a	n/a	n/a	- Transportation was brought to a standstill across the region - Many schools were closed

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			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
11/30/2006 thru 12/01/2006	n/a	Ice Storm			2.00 in.			Edwardsville	2	2	$5,070,993	*Event Description Provided Below*
This event was part of a federally-declared disaster (Declaration #1681) - Ice downed trees, branches, and power lines - Numerous roofs and automobiles were damaged by falling tree limbs - Prolonged power outages were experienced across the area, with Grant Fork and others without power for over a week; at least 75% of Edwardsville lost power - The ice created hazardous travel conditions across the County; one person was injured in an auto accident in Alton and there was one death due to an auto accident - One person died from carbon monoxide poisoning; fumes from a generator running in the garage entered the home, killing one resident and seriously injuring another - Many rural schools were closed for several days due to slick roads and power outages - A committee member with the Alhambra FPD estimated that the storm caused $478,000 in damages to the Village - The committee member for East Alton estimated that the storm caused $98,665 in damages to the Village - IEMA identified $2,994,328 in public assistance approved by FEMA for Madison County - Ameren (regional information, including Madison County): 234,202 customers were without power for up to 10 days; 6,290 wires downed; 1,880 poles replaced; 3,190 Ameren personnel responded to the event.											
12/08/2007 thru 12/12/2007	9:00 PM	Winter Storm		X	0.25 in.	X		Highland Edwardsville	n/a	n/a	n/a	
12/15/2007 thru 12/16/2007	n/a	Heavy Snow	6.2 in.					Highland Edwardsville	n/a	n/a	n/a	

[1] An "X" in the snow, freezing rain, ice, sleet and/or strong winds columns indicates the presences of that weather condition during the severe winter storm event.

[2] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 8
Severe Winter Storm Events Reported in Madison County
1950 - 2023

Date(s)	Start Time	Event Type	Magnitude[1]					Observed Location(s)[2]	Injuries	Fatalities	Property Damages	Impacts/ Event Description
			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
01/31/2008 thru 02/01/2008	12:00 PM	Heavy Snow	8.0 in.					Highland Edwardsville	n/a	n/a	n/a	
03/03/2008 thru 03/04/2008	8:00 PM	Winter Storm	2.8 in.	X		X		Edwardsville	n/a	2	n/a	A 68-year-old woman and a 71-year-old man died in a traffic accident.
01/26/2009 thru 01/28/2009	9:00 PM	Winter Storm	8.8 in.			X		Highland Edwardsville	n/a	n/a	n/a	
01/20/2011 thru 01/21/2011	n/a	Heavy Snow	11.0 in.					Highland Edwardsville	n/a	n/a	n/a	
02/01/2011 thru 02/02/2011	n/a	Blizzard	5.0 in.	X		X		Alton Highland	n/a	n/a	$32,000	*Event Description Provided Below*
This event is part of a state disaster proclamation - The Granite City EMA indicated that the City opened its warming centers for 3 days and spent $32,000 on emergency protective measures, including snow removal. - Ameren (regional information, including Madison County): customers were without power for up to 3 days; 1,494 wires downed; 104 poles replaced; 718 tree orders received for trees/tree limbs that either fell on a line and caused an outage or were on a line and had to be removed; 1,144 Ameren personnel responded to the event.												
02/21/2013	9:00 AM	Winter Storm	5.0 in.	X		X		Alton Edwardsville	n/a	n/a	n/a	
03/24/2013	8:00 AM	Heavy Snow	11.5 in.					Edwardsville	n/a	n/a	n/a	Most area schools were closed.

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1950 - 2023

Date(s)	Start Time	Event Type	Magnitude[1]					Observed Location(s)[2]	Injuries	Fatalities	Property Damages	Impacts/ Event Description
			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
01/02/2014	n/a	Heavy Snow	4.2 in.					Edwardsville	n/a	n/a	n/a	
01/05/2014	5:00 AM	Winter Storm	10.5 in.					Edwardsville	n/a	n/a	n/a	***This event is part of a state disaster proclamation*** All schools and businesses were closed on the 5th and 6th, with many schools remaining closed for several days.
02/05/2014	n/a	Heavy Snow	4.0 in.					Edwardsville	n/a	n/a	n/a	
03/01/2014 thru 03/02/2014	7:00 PM	Winter Storm	0.5 in.			1.0 in.		Alton Highland	n/a	n/a	n/a	
02/15/2015 thru 02/16/2015	n/a	Heavy Snow	5.0 in.					Edwardsville	n/a	n/a	n/a	
02/20/2015 thru 02/21/2015	8:00 PM	Winter Storm	1.5 in.	X		0.5 in.		Edwardsville	n/a	n/a	n/a	
02/28/2015 thru 03/01/2015	3:00 PM	Heavy Snow	6.4 in.					Alton Highland	n/a	n/a	n/a	

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Table 8
Severe Winter Storm Events Reported in Madison County
1950 - 2023

Date(s)	Start Time	Event Type	Magnitude[1]					Observed Location(s)[2]	Injuries	Fatalities	Property Damages	Impacts/ Event Description
			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
02/23/2016 thru 02/24/2016	n/a	Heavy Snow	5.0 in.					Edwardsville	n/a	n/a	n/a	
02/24/2016 thru 02/25/2016	n/a	Heavy Snow	5.0 in.					Edwardsville	n/a	n/a	n/a	Ameren (regional information, including Madison County): 51,958 customers were without power for up to 2 days; 179 wires downed; 125 poles replaced; 37 tree orders received for trees/tree limbs that either fell on a line and caused an outage or were on a line and had to be removed; 1,328 Ameren personnel responded to the event.
12/16/2016	n/a	Ice Storm		X	X			Edwardsville	n/a	n/a	$3,914	Planning Committee Member reported $3,914 in damages that occurred to a traffic light signal in East Alton, at 9th & Airline Dr.

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[2] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 8
Severe Winter Storm Events Reported in Madison County
1950 - 2023

Date(s)	Start Time	Event Type	Magnitude[1]					Observed Location(s)[2]	Injuries	Fatalities	Property Damages	Impacts/ Event Description
			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
01/13/2017 thru 01/15/2017	7:00 AM	Ice Storm			0.40 in.			Edwardsville	n/a	n/a	n/a	- Scattered power outages and transportation slow downs - Most schools and businesses were closed on the 13th
11/15/2018	4:00 AM	Heavy Snow	6.5 in.					Edwardsville	n/a	n/a	n/a	
01/11/2019 thru 01/13/2019	4:00 PM	Heavy Snow	7.9 in.					Edwardsville	n/a	n/a	n/a	
02/10/2019	n/a	Ice Storm		X	X			Edwardsville	n/a	n/a	$7,250	Planning Committee Member reported $7,250 in damages that occurred to a traffic light signal in East Alton, at 9th & Airline Dr.
12/15/2019 thru 12/16/2019	10:00 AM	Winter Storm	6.0 in.	X				Alton Edwardsville Highland	n/a	n/a	n/a	A majority of the snow fell in a two-hour period on the 16th.
02/15/2021 thru 02/16/2021	n/a	Heavy Snow	9.4 in.					Highland Edwardsville Alton	n/a	n/a	n/a	***This event is part of a state disaster proclamation***
02/02/2022 thru 02/04/2022	1:00 AM	Winter Storm	12.6 in.			X		Edwardsville Alton Highland	n/a	n/a	n/a	***This event is part of a state disaster proclamation***
02/24/2022	10:00 AM	Sleet				0.7 in.			n/a	n/a	n/a	

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Table 8
Severe Winter Storm Events Reported in Madison County
1950 - 2023

Date(s)	Start Time	Event Type	Magnitude[1]					Observed Location(s)[2]	Injuries	Fatalities	Property Damages	Impacts/ Event Description
			Snow (inches)	Freezing Rain (inches)	Ice (inches)	Sleet (Inches)	Strong Wind (mph)					
12/23/2022	n/a	Winter Storm	2.0 in.				45 mph	Alton Edwardsville Highland	n/a	n/a	n/a	The snow combined with gusty northwest winds created extremely hazardous travel with sporadic near-blizzard conditions during the heaviest snowfall. Road conditions deteriorated rapidly during this event. Several accidents occurred across the county due to slick snow packed roads.
GRAND TOTAL:									**2**	**4**	**$5,114,157**	

Sources: Climate Atlas of Illinois.
Illinois State Water Survey.
Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee group discussion January 8, 2013.
Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee Member responses to Critical Facilities Damaged by Natural Hazard Events Questionnaire.
Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee Member responses to the Natural Hazard Events Questionnaire 2019.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Cooperative Observation Forms.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Storm Events Database.

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[2] Observed Location information was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in the Midwestern Regional Climate Center's cli-MATE data system and NOAA's Storm Events Database.

Table 9
Extreme Cold/Wind Chill Events Reported in Madison County
1994 - 2023

Date(s)	Start Time	Magnitude - Temperature °F			Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Impacts/Event Description
		Low (Min)	High (Max)	Wind Chill (Max)					
1/8/1994	n/a	6 °F	15 °F	n/a	Alton	n/a	n/a	n/a	
01/15/1994 thru 01/16/1994	n/a	-5 °F	4 °F	n/a	Alton	n/a	n/a	n/a	
01/18/1994 thru 01/20/1994	n/a	-8 °F	13 °F	n/a	Alton	n/a	n/a	n/a	
01/04/1995 thru 01/05/1995	n/a	6 °F	24 °F	n/a	Alton	n/a	n/a	n/a	
1/7/1996	n/a	6 °F	14 °F	n/a	Alton	n/a	n/a	n/a	
02/03/1996 thru 02/05/1996	n/a	-15 °F	14 °F	n/a	Alton	n/a	n/a	n/a	
01/12/1997 thru 01/13/1997	n/a	0 °F	10 °F	n/a	Alton	n/a	n/a	n/a	
1/17/1997	n/a	5 °F	12 °F	n/a	Alton	n/a	n/a	n/a	
1/5/1999	n/a	-1 °F	10 °F	n/a	Alton	n/a	n/a	n/a	
12/18/2000	n/a	2 °F	16 °F	n/a	Alton	n/a	n/a	n/a	

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Extreme Cold/Wind Chill Events Reported in Madison County
1994 - 2023

Date(s)	Start Time	Magnitude - Temperature °F			Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Impacts/Event Description
		Low (Min)	High (Max)	Wind Chill (Max)					
12/22/2000	n/a	3 °F	18 °F	n/a	Alton	n/a	1	n/a	A 58 year-old Godfrey man passed away in his home and hypothermia was the suspected cause of death as the temperature in the home was 35 degrees at the time he was found.
12/25/2000 thru 12/26/2000	n/a	1 °F	18 °F	n/a	Alton	n/a	n/a	n/a	
01/23/2003 thru 01/24/2003	n/a	1 °F	16 °F	n/a	Alton	n/a	n/a	n/a	
01/30/2004 thru 02/01/2004	n/a	-6 °F	17 °F	n/a	Alton	n/a	n/a	n/a	
2/19/2006	n/a	3 °F	14 °F	n/a	Alton	n/a	n/a	n/a	
2/6/2007	n/a	3 °F	15 °F	n/a	Alton	n/a	n/a	n/a	
01/14/2009 thru 01/15/2009	9:00 PM	0 °F	12 °F	-24 °F	Alton	n/a	n/a	n/a	
01/08/2010 thru 01/09/2010	3:55 AM	7 °F	14 °F	-24 °F	Alton	n/a	n/a	n/a	

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Extreme Cold/Wind Chill Events Reported in Madison County
1994 - 2023

Date(s)	Start Time	Magnitude - Temperature °F			Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Impacts/Event Description
		Low (Min)	High (Max)	Wind Chill (Max)					
02/02/2011 thru 02/03/2011	6:00 PM	4 °F	20 °F	-24 °F	Alton	n/a	n/a	n/a	
01/05/2014 thru 01/07/2014	7:43 PM	n/a °F	n/a °F	-34 °F		n/a	n/a	n/a	***This event was part of a State disaster proclamation*** Ameren (regional information, including Madison County): 52,337 customers were without power for up to 2.5 days; 140 wires downed; 30 poles replaced; 46 tree orders received for trees/tree limbs that either fell on a line and caused an outage or were on a line and had to be removed; 44 Ameren personnel responded to the event.
1/23/2014	12:00 AM	n/a °F	n/a °F	-21 °F		n/a	n/a	n/a	
02/05/2014 thru 02/06/2014	9:00 PM	0 °F	n/a °F	-20 °F	Alton	n/a	n/a	n/a	
02/10/2014 thru 02/11/2014	n/a	-2 °F	13 °F	n/a	Alton	n/a	n/a	n/a	
3/3/2014	n/a	2 °F	14 °F	n/a	Alton	n/a	n/a	n/a	
01/07/2015 thru 01/08/2015	6:00 AM	1 °F	25 °F	-22 °F	Alton	n/a	n/a	n/a	

[1] Observed Location information, if available, was obtained from NWS's COOP Observation Station records as well as other officially-designated sources identified in NOAA's Storm Events Database and the Midwestern Regional Climate Center's cli-MATE data system.

Table 9
Extreme Cold/Wind Chill Events Reported in Madison County
1994 - 2023

Date(s)	Start Time	Magnitude - Temperature °F			Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Impacts/Event Description
		Low (Min)	High (Max)	Wind Chill (Max)					
02/18/2015 thru 02/19/2015	6:00 AM	2 °F	14 °F	-20 °F	Alton	n/a	n/a	n/a	
2/23/2015	12:00 AM	1 °F	17 °F	-20 °F	Alton	n/a	n/a	n/a	
2/28/2015	n/a	0 °F	18 °F	n/a	Alton	n/a	n/a	n/a	
01/17/2016 thru 01/18/2016	9:03 PM	3 °F	14 °F	-19 °F	Alton	n/a	n/a	n/a	
12/19/2016	n/a	1 °F	10 °F	n/a	Alton	n/a	n/a	n/a	
12/28/2017	n/a	1 °F	13 °F	n/a	Alton	n/a	n/a	n/a	
12/31/2017 thru 01/02/2018	6:00 PM	-7 °F	8 °F	-25 °F	Alton	n/a	n/a	n/a	
01/03/2018 thru 01/04/2018	8:00 PM	2 °F	n/a °F	-20 °F	Alton	n/a	n/a	n/a	
01/15/2018 thru 01/16/2018	6:00 PM	1 °F	9 °F	-25 °F	Alton	n/a	n/a	n/a	
01/29/2019 thru 01/30/2019	6:00 PM	-2 °F	10 °F	-25 °F	Alton	n/a	n/a	n/a	***This event was part of a State disaster proclamation***

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Table 9
Extreme Cold/Wind Chill Events Reported in Madison County
1994 - 2023

Date(s)	Start Time	Magnitude - Temperature °F			Observed Location(s)[1]	Injuries	Fatalities	Property Damages	Impacts/Event Description
		Low (Min)	High (Max)	Wind Chill (Max)					
02/13/2021 thru 02/16/2021	6:00 PM	-4 °F	12 °F	-25 °F	Alton	n/a	n/a	n/a	Committee member from Collinsville notes numerous water pipe breaks and power was lost.
12/22/2022 thru 12/24/2022	4:41 PM	-4 °F	7 °F	-35 °F	Alton	n/a	n/a	n/a	
GRAND TOTAL:						**0**	**1**	**$0**	

Sources: Ameren Illinois - Illinois Crisis Management
Iowa State University, Iowa Environmental Mesonet, National Weather Service Data, Search for Warnings.
Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee Member responses to the Natural Hazard Events Questionnaire.
Midwestern Regional Climate Center, cli-MATE.
National Weather Service, Weather Forecast Office - St. Louis, Missouri, Event Archives.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Cooperative Observation Forms.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Storm Events Database.

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Table 10
Tornadoes Reported in Madison County
1950 - 2023

Map No.	Date(s)	Start Time	Location(s)	Magnitude Fujita Scale	Length (Miles)[1]	Width (Yards)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
1	1/3/1950	11:10 a.m.	Hartford Roxana	F 3	3.3 mi.	100 yd.	n/a	n/a	$300,000	n/a	*Touchdown/Liftoff – Two Counties* Touched down in St. Louis County, Missouri at Spanish Lake and traveled northeast crossing the Mississippi River before lifting off at Roxana in Madison County – total length: 9.0 miles *Roxana* Three homes were destroyed and 11 others were damaged
2	12/2/1950	3:00 p.m.	Fosterburg^ Dorsey^	F 2	7.3 mi.	50 yd.	n/a	n/a	$25,000	n/a	*Touchdown/Liftoff – Two Counties* Touched down in Madison County near Fosterburg and traveled northeast lifting off near Mt. Olive in Macoupin County – total length: 19.3 miles
3	12/2/1950	4:00 p.m.	Highland^ Pierron^	F 3	4.7 mi.	200 yd.	n/a	n/a	$2,500,000	n/a	*Touchdown/Liftoff – Two Counties* Touched down in Madison County near Highland and traveled northeast lifting off at Greeneville in Bond County – total length: 18.5 miles

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^ Tornado touchdown verified in the vicinity of this location(s).
† Property damages sustained as a result of this tornado represent losses sustained in two or more counties. A detailed breakdown by county was not available.

Table 10
Tornadoes Reported in Madison County
1950 - 2023

Map No.	Date(s)	Start Time	Location(s)	Magnitude Fujita Scale	Length (Miles)[1]	Width (Yards)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
4	10/6/1955	5:00 p.m.	Collinsville Troy	F 1	9.1 mi.	50 yd.	2	n/a	$250,000	n/a	*Touchdown/Liftoff – Two Counties* Touched down in St. Clair County at East St. Louis and traveled northeast lifting off at Troy in Madison County – total length: 15.7 miles
5	12/18/1957	3:20 p.m.	Roxana Wood River	F 2	1.0 mi.	10 yd.	1	n/a	$25,000	n/a	*Wood River* Nine buildings were either damaged or destroyed on the south side of the City
6	5/3/1958	3:00 p.m.	Godfrey	F 1	1.0 mi.	10 yd.	n/a	n/a	$2,500	n/a	Destroyed a barn
7	5/3/1958	3:30 p.m.	Collinsville Maryville^	F 2	4.7 mi.	10 yd.	1	n/a	$25,000	n/a	
8	6/1/1958	12:30 a.m.	Collinsville	F 2	0.5 mi.	100 yd.	n/a	n/a	$2,500	n/a	
9	2/10/1959	2:15 a.m.	Venice Madison Granite City	F 4	1.7 mi.	200 yd.	n/a	n/a	$250,000	n/a	*Touchdown/Liftoff – Two Counties* Touched down in St. Louis County, Missouri near Crescent and traveled northeast through St. Louis crossing the Mississippi River near the McKinley Bridge before lifting off at Madison in Madison County – total length: 26.3 miles *Venice-Granite City area* Some factory damage was reported

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Table 10
Tornadoes Reported in Madison County
1950 - 2023

Map No.	Date(s)	Start Time	Location(s)	Magnitude Fujita Scale	Length (Miles)[1]	Width (Yards)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
10	10/10/1959	5:15 p.m.	Godfrey^ Fosterburg Dorsey^	F 2	13.9 mi.	33 yd.	n/a	n/a	$250,000	n/a	*Touchdown/Liftoff – Multiple Counties* Touched down in Madison County near Godfrey and traveled northeast, crossing southeastern Macoupin County before lifting off at Fillmore in Montgomery County – total length: 48.7 miles *Fosterburg* - Heavily damaged a farmstead near Fosterburg and killed 18 dairy cows when the barn they were in collapsed - Caused light damage in Fosterburg
11	2/9/1960	8:35 p.m.	Troy	F 1	0.1 mi.	10 yd.	2	n/a	$250,000	n/a	- Destroyed 8 mobile homes and damaged the roofs on other buildings - Two individuals in the only occupied mobile home sustained minor injuries
12	6/16/1960	2:00 p.m.	Wood River	F 0	0.1 mi.	10 yd.	n/a	n/a	$2,500	n/a	- Ripped shingles from a garage - Uprooted trees and downed power lines

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Table 10
Tornadoes Reported in Madison County
1950 - 2023

Map No.	Date(s)	Start Time	Location(s)	Magnitude Fujita Scale	Length (Miles)[1]	Width (Yards)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
13	6/22/1960	7:30 p.m.	Roxana^ Poag	F 0	0.1 mi.	10 yd.	n/a	n/a	$2,500	n/a	*Poag* - Blew the roof off a barn - Uprooted trees and damaged buildings
14	6/30/1960	1:00 a.m.	Alton Godfrey Bethalto^ Glen Carbon	F 2	16.9 mi.	10 yd.	9	n/a	$5,000,000	n/a	*Bethalto* - Destroyed 3 airport hangers and destroyed or damaged 48 aircraft - Overturned 7 mobile homes; *Godfrey* - Injured a mother and her 4 children when their house was blown off its foundation
15	5/16/1967	4:30 p.m.	East Alton	F 1	0.5 mi.	20 yd.	n/a	n/a	$2,500	n/a	Damaged a silo and some small outbuildings
16	6/20/1967	4:15 p.m.	Hartford^	F	0.8 mi.	20 yd.	n/a	n/a	$2,500	n/a	Damaged 6 houses

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Table 10
Tornadoes Reported in Madison County
1950 - 2023

Map No.	Date(s)	Start Time	Location(s)	Magnitude Fujita Scale	Length (Miles)[1]	Width (Yards)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
17	6/14/1970	5:35 p.m.	Granite City Mitchell	F 1	1.5 mi.	50 yd.	7	n/a	$2,500	n/a	On I-270 a large truck was blown into a ditch and a pickup truck/camper was blown over causing minor injuries to the 7 occupants *Mitchell* - Houses in Mitchell received minor structural damage - A truck camper near a house in Mitchell was blown 100 yards after reportedly being lifting 300 feet in the air - Wheat in a field to the north of Mitchell was twisted in a circular pattern
18	6/17/1973	1:00 a.m.	Granite City	F 0	0.1 mi.	10 yd.	n/a	n/a	n/a	n/a	Ripped the roof off of a structure
19	7/29/1973	10:30 p.m.	Pontoon Beach	F 2	0.1 mi.	10 yd.	n/a	n/a	$25,000	n/a	- Destroyed a mobile home - Lightly damaged a shopping center
20	8/10/1974	1:25 p.m.	Alhambra^	F 0	0.1 mi.	10 yd.	n/a	n/a	n/a	n/a	
21	7/28/1976	4:45 p.m.	Grantfork	F 3	0.1 mi.	10 yd.	n/a	n/a	$25,000	n/a	Destroyed a barn and a machine shed; the debris was thrown into a nearby field

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† Property damages sustained as a result of this tornado represent losses sustained in two or more counties. A detailed breakdown by county was not available.

Table 10
Tornadoes Reported in Madison County
1950 - 2023

Map No.	Date(s)	Start Time	Location(s)	Magnitude Fujita Scale	Length (Miles)[1]	Width (Yards)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
22	4/10/1978	1:30 p.m.	South Roxana Roxana	F 1	0.5 mi.	100 yd.	n/a	n/a	$250,000	n/a	*Event Description Provided Below*
Tornado developed just southwest of the 200 block of Illinois Ave. in South Roxana and traveled northeast, touching down three separate times *Roxana* Damaged the roof of the Shell Oil canning plant *South Roxana* - Destroyed 1 mobile home (which was tied down with both straps and anchors on the front and rear)- Moved 3 other mobile homes off their blocks, damaging them - Blew the roof off the Sports Beat Lounge - Damaged a pickup truck and camper shell - Uprooted 2 large trees and knocked down several tree limbs											
23	4/3/1981	10:50 p.m.	Granite City Pontoon Beach Edwardsville	F 4	11.9 mi.	567 yd.	32	n/a	$25,000,000	n/a	*Event Description Provided Below*
Granite City - Destroyed 7 homes, few mobile homes and a garage - Damaged 24 homes - Drove a pair of handheld hedge trimmers into the top of a telephone pole - Overturned a car and completely turned around another while it was being driven *Pontoon Beach* - Destroyed 20 mobile homes - Overturned 2 tractor trailers 1 mile east of the I-270/I-255 interchange *Edwardsville* - Damaged or destroyed many homes and businesses - A transformer was blown - Numerous cases where boards and limbs were driven through walls and windshields and one case where pieces of linoleum were driven underneath the molding over a vinyl roof of a car											

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Table 10
Tornadoes Reported in Madison County
1950 - 2023

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24	4/22/1981	5:56 p.m.	Godfrey	F 0	3.6 mi.	50 yd.	n/a	n/a	$2,500	n/a	*Touchdown/Liftoff – Two Counties* Touched down in Madison County at Godfrey and traveled northeast lifting off near Brighton in Macoupin County – total length: 5.6 miles *Godfrey* - Damaged 2 homes - Downed power lines
25	5/1/1983	7:23 p.m.	Venice Madison Granite City Pontoon Beach Edwardsville	F 3	15.0 mi.	1000 yd.	3	n/a	$25,000,000	n/a	*Event Description Provided Below*
This event was part of a federally-declared disaster (Declaration #684) Touchdown/Liftoff – Multiple Counties Touched down in St. Louis County, Missouri (location unknown) and traveled northeast lifting off northeast of Edwardsville in Madison County – total length: 16.0 miles											*Granite City* - Two shopping centers and a 2-block area were badly damaged - Uprooted a few trees *Edwardsville* - Destroyed 6 mobile homes and damaged 10 others at the Edwardsville Estates Mobile Home Park - Damaged roofs, buildings and trees
26	4/3/1984	5:35 p.m.	Collinsville	F 0	0.1 mi.	10 yd.	n/a	n/a	$25,000	n/a	Caused minor damage to homes

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Table 10
Tornadoes Reported in Madison County
1950 - 2023

Map No.	Date(s)	Start Time	Location(s)	Magnitude Fujita Scale	Length (Miles)[1]	Width (Yards)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
27	11/15/1988	10:38 p.m.	Collinsville Troy	F 3	6.0 mi.	200 yd.	n/a	n/a	$2,500,000	n/a	*Touchdown/Liftoff – Two Counties* Touched down in St. Clair County at Fairview Heights and traveled northeast lifting off at Troy in Madison County – total length: 9.0 miles - Destroyed 19 structures - Knocked down 3 steel transmission power line towers southwest of Troy
28	5/12/1990	4:45 p.m.	New Douglas^	F 1	1.0 mi.	100 yd.	n/a	n/a	$250,000 †	n/a	*Touchdown/Liftoff – Two Counties* Touched down in Madison County east of New Douglas and traveled east-northeast lifting off south of Sorento in Bond County – total length: 6.0 miles Many homes were damaged and outbuildings were destroyed, including a 60’ x 126’ machine shed
29	6/8/1993	4:30 p.m.	Marine	F 0	0.4 mi.	30 yd.	n/a	n/a	$50,000	n/a	

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Table 10
Tornadoes Reported in Madison County
1950 - 2023

Map No.	Date(s)	Start Time	Location(s)	Magnitude Fujita Scale	Length (Miles)[1]	Width (Yards)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
30	4/13/1998	5:05 p.m.	Granite City Pontoon Beach Edwardsville	F 1	9.5 mi.	75 yd.	n/a	n/a	$800,000	n/a	*Event Description Provided Below*
Granite City Five mobile homes were damaged on the northwest side of the City at the Nameoki Trailer Park when trees fell on them Pontoon Beach Damaged the roofs of 6 homes											*Edwardsville* Damaged the roofs of several businesses including a floor covering store, an autobody shop, the Moose Lodge and a daycare near the intersection of Center Grove, Goshen and Troy Roads
31	6/14/1998	5:10 p.m.	Livingston^	F 0	1.0 mi.	100 yd.	n/a	n/a	n/a	n/a	- A short lived tornado formed in an open field east of Livingston - Trees were uprooted
32	6/14/1998	5:15 p.m.	New Douglas^	F 0	1.0 mi.	75 yd.	n/a	n/a	n/a	n/a	*Touchdown/Liftoff – Two Counties* Touched down in Madison County just east of New Douglas and traveled east-northeast lifting off southeast of Sorento in Bond County – total length: 5.5 miles
33	2/27/1999	12:05 p.m.	Troy^	F 0	0.2 mi.	50 yd.	n/a	n/a	n/a	n/a	A small tornado formed in an open field near the intersection of I-270 and I-55/I-70

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Tornadoes Reported in Madison County
1950 - 2023

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34	4/8/1999	9:18 p.m.	New Douglas^	F 1	1.0 mi.	75 yd.	1	n/a	n/a	n/a	- A man suffered cuts and bruises after being hit by flying debris - Damaged 3 farms – most of the damage was to barns and outbuildings although 1 house had its roof and a couple of walls of an addition blown away, and the garage was severely damaged
35	4/10/2001	8:35 p.m.	Granite City Pontoon Beach	F 1	2.0 mi.	100 yd.	1	n/a	$5,000,000	n/a	*Event Description Provided Below*

Granite City
- Damaged an apartment complex near Worthen Park – 2 buildings were destroyed, and 4 others suffered major to minor damage
- Flying debris damaged several cars in the parking lot of the apartment complex
- One individual was injured by flying glass at the apartment complex
- Damaged the roofs of 3 homes and downed trees near the Legacy Golf Course

Pontoon Beach
- Destroyed 1 house – the attached garage was blown away and the entire roof was blown off
- Damaged about 20 other homes/businesses

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1950 - 2023

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36	5/31/2001	2:08 p.m.	Highland	F 0	0.2 mi.	50 yd.	n/a	n/a	$50,000	n/a	- Damaged Highland High School – ripped 6 air conditioner units off their bases and damaged the gym roof and the ceiling of the second story classrooms - Caused minor damage to farm outbuildings north of IL Rte. 160
37	5/30/2004	3:05 p.m.	Marine^	F 1	2.0 mi.	70 yd.	n/a	n/a	n/a	n/a	- A tornado developed near the intersection of IL Rte. 4 and Fruit Rd. and traveled northeast - Damaged several trees near the intersection of IL Rte. 4 and Fruit Rd. - Caused minor damage to the roofs of a couple of homes - Caused extensive damage to several farm buildings including ripping sheet metal off one roof and depositing a ¼ mile away
38	7/5/2004	7:42 p.m.	Edwardsville^	F 0	0.1 mi.	40 yd.	n/a	n/a	n/a	n/a	
39	8/24/2004	1:15 p.m.	Alton	F 0	1.2 mi.	50 yd.	n/a	n/a	n/a	n/a	- Damaged the roof of a shoe store - Downed trees at a golf course

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Tornadoes Reported in Madison County
1950 - 2023

Map No.	Date(s)	Start Time	Location(s)	Magnitude Fujita Scale	Length (Miles)[1]	Width (Yards)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
40	4/2/2006	4:21 p.m.	Dorsey^ Prairietown^	F 0	5.0 mi.	50 yd.	n/a	n/a	n/a	n/a	*Touchdown/Liftoff – Two Counties* Touched down in Madison County south of Dorsey and traveled northeast lifting off near Mt. Olive in Macoupin County – total length: 16.0 miles *Dorsey/Prairietown area* - Damaged trees and blew shingles off of a couple of homes
41	4/2/2006	4:30 p.m.	Highland^	F 1	2.0 mi.	100 yd.	n/a	n/a	n/a	n/a	*Event Description Provided Below*
- A tornado developed near the intersection of Ellis Rd. and Acorn Rd. and traveled northeast lifting off near the southeastern edge of the City - Destroyed 2 grain bins at the intersection of Ellis Rd. and Acorn Rd. - Damaged a farm ¼ mile west of IL Rte. 160 – the home sustained minor roof, window and siding damage; destroyed a garage and a large machine shed - Snapped off a number of power poles just south of Old Trenton Road - Caused considerable roof and window damage to a large ranch home just north of the snapped power poles and downed several large trees in the area										
42	5/24/2006	4:10 p.m.	Bethalto^	F 0	0.2 mi.	50 yd.	n/a	n/a	$20,000	n/a	- Tornado touched down along Buchta Rd. west of IL Rte. 159 - Destroyed a 60’ x 105’ barn – it was lifted completely off the ground and then dropped
43	7/19/2006	6:25 p.m.	Edwardsville^	F 0	0.2 mi.	20 yd.	n/a	n/a	n/a	n/a	Tornado touched down in an open field south of Edwardsville near IL Rte. 159

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Table 10
Tornadoes Reported in Madison County
1950 - 2023

Map No.	Date(s)	Start Time	Location(s)	Magnitude Fujita Scale	Length (Miles)[1]	Width (Yards)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/Event Description
44	7/21/2006	10:37 a.m.	Troy^ St. Jacob^	F 0	4.0 mi.	50 yd.	n/a	n/a	n/a	n/a	*Event Description Provided Below*
- Tornado developed about 200 yards south of the intersection of E. Kirsch Rd. and Blackjack Rd. and moved east-southeast lifting off near IL Rte. 4 and Lilac Rd. - Severed the tops of many trees along the tornado's path Troy area Destroyed a machine shed near the intersection of E. Kirsch Rd. and Blackjack Rd. <u>*St. Jacob area*</u> - Severely damaged a farm home when a tree fell on it near IL Rte. 4 and Lilac Rd. - Caused minor damage to 2 machine sheds in the same area										
45	7/21/2006	10:38 a.m.	Troy^ St. Jacob^	F 0	5.5 mi.	50 yd.	n/a	n/a	n/a	n/a	- Tornado developed near the intersection of Blackjack Rd. and Lebanon Rd. and traveled east-southeast - Severed the tops of numerous large trees along the tornado's path - Damaged a machine shed <u>*St. Jacob area*</u> - Downed several power poles east of IL Rte. 4
46	5/4/2007	4:50 p.m.	Wood River^	EF 0	0.02 mi.	40 yd.	n/a	n/a	n/a	n/a	A weak tornado formed in an open area east of Wood River

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Tornadoes Reported in Madison County
1950 - 2023

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47	2/27/2011	11:35 p.m.	Granite City	EF 1	3.30 mi.	100 yd.	n/a	n/a	n/a	n/a	- Tornado touched down near the intersection of IL Rte. 3 and Rock Rd. and traveled eastward lifting off at Maryville Rd. - Blew much of the roof off of a large storage facility near the intersection of IL Rte. 3 and Rock Rd. - Caused significant tree and roof damage along the tornado's path - The Granite City EMA indicated that the tornado damaged 18 homes
48	2/27/2011	11:39 p.m.	Glen Carbon Edwardsville	EF 1	2.40 mi.	150 yd.	n/a	n/a	n/a	n/a	*Event Description Provided Below*
- Uprooted several cedar trees near the intersection of Ginger Creek Dr. and IL Rte. 157 - Passed through the Ginger Creek Subdivision - Damaged the roof and siding of a metal industrial building near the intersection of Center Grove Rd. and IL Rte. 159 - Damaged a few local business signs and small pre-constructed sheds outside of a Home Depot near the intersection of Center Grove Rd. and Troy Rd. - Caused minor roof and siding damage to several homes near the intersection of Gerber Rd. and Governors Pkwy											

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1950 - 2023

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49	2/27/2011	11:42 p.m.	Edwardsville^	EF 1	2.00 mi.	50 yd.	n/a	n/a	n/a	n/a	*Event Description Provided Below*
- Knocked over a few power poles west of I-55 near W. Mick Rd. - Produced minor tree damage as the tornado crossed I-55 - Caused roof and siding damage to a couple of homes – one had part of the roof decking on the south side of the house removed while another had a flag - Pole located well north of the structure bent over almost to the ground - Destroyed a barn along Staunton Rd. scattering debris for several hundred yards across the road into an open field - Snapped mature pine trees off several feet above the ground along Nealy Ln.											
50	2/27/2011	11:45 p.m.	Troy	EF 2	2.70 mi.	200 yd.	1	n/a	$50,000	n/a	- Completely removed the roof from a well-constructed home on Weathervane Ln. on the west side of Troy - An occupant in the home received a serious head laceration and was treated at a local hospital - Caused minor to moderate damage to numerous trees, power lines and roofs along the path of the tornado
51	4/22/2011	7:24 p.m.	Granite City	EF 2	5.10 mi.	150 yd.	n/a	n/a	n/a	n/a	*Event Description Provided Below*
This event is part of a state disaster proclamation *Touchdown/Liftoff – Two Counties* Touched down in St. Louis County, Missouri near Bridgeton and traveled east crossing the Mississippi River 1.5 miles south of the Chain of Rocks Bridge and continued east to 0.5 miles north of the intersection of IL Rte. 203 and Pontoon Rd. and then curved southeast lifting off near the intersection of Alton St. and Pontoon Rd. at Granite City in Madison County – total length: 21.3 miles *Granite City* - Uprooted/ snapped trees and removed the roofs of 3 homes near intersection of IL Rte. 203 and Pontoon Rd. - Damaged 129 homes between Bern Ave. & Dawn Ave. (Miracle Manor) according to Granite City EMA										

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1950 - 2023

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52	4/22/2011	7:55 p.m.	Highland^	EF 2	6.70 mi.	700 yd.	n/a	n/a	n/a	n/a	*Event Description Provided Below*
This event is part of a state disaster proclamation *Touchdown/Liftoff – Multiple Counties* Touched down in Madison County southwest of Highland and traveled northeast, crossing the northwestern tip of Clinton County before lifting off south of Greenville in Bond County – total length: 18.2 miles - Uprooted/snapped many trees along the tornado's path - Destroyed a large metal farm building just west of IL Rte. 160 - Caused minor damage to a barn roof and snapped 3 wooden power poles on Old Trenton Rd. - Damaged power poles, farm buildings and roofs south of Highland - Damaged a house and carport near the intersection of St. Rose Rd. and Iberg Rd. when trees fell on them - Damaged 5 homes in a subdivision north of St. Rose Rd. - Blew out multiple windows of a farm house and destroyed a large metal shed on Waage Rd.											
53	8/31/2012	1:50 p.m.	Granite City^	EF 0	0.20 mi.	50 yd.	n/a	n/a	n/a	n/a	A tornado briefly touched down on the north end of Chouteau Island, north of I-270

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54	5/31/2013	7:29 p.m.	Hartford^ South Roxana Edwardsville^ Gard^	EF 3	8.63 mi.	150 yd.	n/a	n/a	n/a	n/a	*Event Description Provided Below*

Touchdown/Liftoff - Two Counties
Touched down in St. Louis County, Missouri at the Columbia Bottom Conservation Area and traveled northeast crossing the Mississippi River before lifting off just south of Fox Creek Golf Club north of Edwardsville - total length: 10.6 miles

Hartford Area
- A quarter of the roof of a business was taken off on the northwest corner of the intersection of IL Rte. 3 and Piasa Ln.
- A gas station sustained minor damage on the east side of IL Rte. 3
- Several trees were blown down

South Roxana
- Several power poles were snapped along S. Delmar Ave.
- Just south of the intersection of Robbins Rd. and IL Rte. 111, 5 large wooden power poles were snapped and there was a convergent pattern in the tree damaged
- Minor damage to several homes was reported

Edwardsville Area
- A wall on a large steel framework building was buckled and the roof steel girders were twisted just south of Old Alton Edwardsville Rd just east of the intersection with Section Line Rd.
- On the same property, another very large and well-built wood framed metal sided storage building was completely destroyed

Gard Area
- Just south of Fox Creek Golf Club several large fir trees were snapped as well as a wooden power pole

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1950 - 2023

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55	2/20/2014	3:57 p.m.	Highland^Pierron^	EF	1.06 mi.	50 yd.	n/a	n/a	n/a	n/a	*Touchdown/Liftoff - Two Counties* Tornado touched down in Madison County about 3.4 miles northeast of Highland and traveled northeast lifting off near Greenville in Bond County - total length: 12.31 miles - Window, roof and tree damage to a home was reported on Trestle Rd. - Just northeast of the home a large commercial metal storage building was destroyed
56	3/27/2021	6:08 PM	St. Jacob^ Highland	EF 1	5.29 mi.	700 yd.	n/a	n/a	n/a	n/a	*Event Description Provided Below*
- Tornado first touched down north of Saint Jacob along Marine Road where it toppled several trees and partially tore the roof off a large metal shed - It then likely lifted briefly, but then touched down again intermittently along Lake Roa - Minor roof and siding damage were reported to many homes along Lake Road, as well as topple several trees and snapped a power line - The worst of the damage was to a large metal shed that was destroyed and the roof was lofted into nearby trees and pushed hundreds of feet down the street - A 2x4 from this roof was driven straight into the roof of a nearby building - The tornado then likely lifted briefly, before touching down again and doing additional damage to large trees in a neighborhood along 15th and 16th Streets										

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1950 - 2023

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57	12/10/2021	8:27 PM	Pontoon Beach Edwardsville	EF 3	4.22 mi.	300 yd.	1	6	$5,000,000	n/a	*Event Description Provided Below*

This event was part of a federal emergency declaration (Declaration #3577)

- Tornado began on the south side of I-270 around three-quarters of a mile west of the I-270/I-255 interchange
- Damage in this area consisted of several downed highway signs and a bent light pole
- The tornado moved northeast and intensified rapidly after crossing I-255, striking an Amazon warehouse
- The west-facing walls of the warehouse collapsed inward, which was followed by multiple structural failures as the tornado moved through the complex, including the collapse of additional walls and the loss of a large segment of the roof
- This was the worst damage along the entire tornado track
- Cars in the rear of the building were strewn eastward and power lines and several large high tension towers were also destroyed
- There was one person injured and 6 fatalities at the Amazon facility
- The tornado weakened as it moved northeast across Sand Road, where it destroyed an unanchored mobile home and an outbuilding, snapped trees, and downed power poles
- Further northeast, the tornado crossed South University Drive where it snapped a power pole and downed additional trees
- It then crossed into the Sunset Hills Country Club subdivision
- Throughout a portion of the subdivision, there were downed trees, snapped branches, and superficial home damage consisting of missing shingles or small portions of roof covering
- The tornado weakened further as it moved northeast, and lifted just west of Butler Boulevard
- noteworthy is debris from the Amazon warehouse was found along the entire track of this storm, tens of miles to the northeast of the warehouse

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1950 - 2023

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58	4/15/2023	6:01 PM	Collinsville Collinsville^	EF U	0.16 mi.	25 yd.	n/a	n/a	n/a	n/a	A tornado briefly touched down just to the west of City but no damages or injuries were reported
GRAND TOTAL:							**61**	**6**	**$72,940,000** †	**$0**	

Sources: Madison County Multi-Jurisdictional All Hazards Mitigation Planning Committee Member responses to the Natural Hazard Events Questionnaire.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Storm Data.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Storm Events Database.
NOAA, National Weather Service, Storm Prediction Center, SVRGIS, Tornadoes (1950-2023) Database.

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Table 11
Drought Events Reported in Madison County
1980 - 2023

Year(s)	Start Month	Duration (Months)	Magnitude Drought Intensity Category[1]					Percent Crop Yield Reduction from Previous Year		Designated USDA Primary Natural Disaster Area	Crop Damages	Impacts/Event Description
			D0	D1	D2	D3	D4	Corn	Soybeans			
1983	n/a	n/a						52.6 %	36.6 %	No		All 102 counties in Illinois were proclaimed state disaster areas because of high temperatures and insufficient precipitation beginning in mid-June
1988 - 1989	June	16						41.0 %	14.8 %	No		Approximately half of all Illinois counties, including Madison County, were impacted by drought conditions
2005 - 2006	May	20	X	X				34.2 %	30.4 %	Yes	$2,475,492 *	
2011	August	4	X	X	X			28.7 %	30.5 %	No	$6,204,884 *	
2012 - 2013	June	8	X	X	X	X		53.8 %	---	Yes	$37,790,477 *	
GRAND TOTAL:											**$46,470,853 ***	

* Crop Damage figures were obtained from USDA Risk Management Agency and only represent losses sustained by insured crops

Sources: Illinois State Water Survey, Illinois State Climatologist.
National Drought Mitigation Center, United States Drought Monitor.
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Storm Events Database.
United States Department of Agriculture, National Agricultural Statistics Service, Quik Stats Lite.

[1] An "X" identifies the level of drought intensity reached by at least a portion of the County during the event, if available.

US Drought Monitor – Drought Intensity Category Descriptions

D0	abnormally dry	D3	extreme drought
D1	moderate drought	D4	exceptional drought
D2	severe drought		

Table 12
Levee Failures Reported in Madison County
1993 - 2023

Date(s)	Start Time	Levee System	Magnitude Area Flooded (acres)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
7/8/1993	n/a	Chouteau Island / Chain of Rocks West	*	n/a	n/a	n/a	n/a	Very frequent, heavy rainfall across the upper Midwest from April through August, coupled with high soil moisture levels led to record-breaking flooding along the Mississippi, Missouri and lower reaches of the Illinois Rivers. The sheer volume of water coupled with the length of the event caused many levees along these rivers to fail. While the Chouteau Island Levee segment was raised with sandbags , it still was overtopped and failed, causing flooding on the Island. About 40 residents on the island were damaged as a result of the levee failure.
06/04/2013	n/a	Chouteau Island / Chain of Rocks West	1,740	n/a	n/a	n/a	n/a	Downpours across Missouri, Iowa and Illinois at the beginning of June fell on soils already saturated by spring rains causing the Mississippi River levels to jump quickly. The Chouteau Island Levee experienced an overtopping breach as the Mississippi River crested 10.5 feet above flood stage at St. Louis. The breach was approximately 200 feet in length with over 270 feet of deep scour from riverside to landside. The depth of the sour reached approximately 45 feet below the existing ground.
12/28/2015	n/a	Chouteau Island / Chain of Rocks West	*	n/a	n/a	n/a	n/a	A winter storm brought torrential rain and heavy snow to the area over a four day period. Some locations in east-central Missouri and southern Illinois received over 10 inches of precipitation. This heavy rainfall resulted in the flooding along the Mississippi, Missouri, Meramec, Kaskaskia, and Illinois Rivers. The Chouteau Island Levee experienced two breaches as a result of this flooding. The north breach was approximately 240 feet in length while the south breach was approximately 320 feet in length.

Table 12
Levee Failures Reported in Madison County
1993 - 2023

Date(s)	Start Time	Levee System	Magnitude Area Flooded (acres)	Injuries	Fatalities	Property Damages	Crop Damages	Impacts/ Event Description
05/05/2019	n/a	Chouteau Island / Chain of Rocks West	*	n/a	n/a	n/a	n/a	A very snowy winter across the upper Midwest and numerous rounds of heavy rain across the Missouri and Mississippi River basins throughout the spring and early summer months caused the Mississippi River to rise to near record setting levels. As a result, the Chouteau Island Levee experienced an overtopping breach which damaged the Illinois American Water intake facility on the Island leading to temporary conservation measure for 38 communities and townships between May 5 and May 9, 2019. US Steel in Granite City closed for a day in an effort to conserve water usage in the area.
GRAND TOTAL:				**0**	**0**	**$0**	**$0**	

Sources: Illinois State Water Survey, *The 1993 Flood on the Mississippi River in Illinois* .
NOAA, National Environmental Satellite, Data & Information Service, National Centers for Environmental Information, Storm Events Database.
US Army Corps of Engineers, National Levee Database

APPENDIX K


KEY TO MAP
100-Year Flood Boundary
100-Year Flood Boundary
Zone Designations* With Date of Identification e.g., 12/2/74
100-Year Flood Boundary
100-Year Flood Boundary
ZONE B
ZONE B
Base Flood Elevation Line With Elevation In Feet**
Base Flood Elevation in Feet Where Uniform Within Zone**
(EL 987)
Elevation Reference Mark
RM7×
Zone D Boundary
River Mile
•M1.5
**Referenced to the National Geodetic Vertical Datum of 1929
*EXPLANATION OF ZONE DESIGNATIONS
ZONE
EXPLANATION
A
Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
AO
Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH
Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30
Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99
Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B
Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C
Areas of minimal flooding. [No shading]
D
Areas of undetermined, but possible, flood hazards.
V
Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30
Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.
NOTES TO USER
Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.
This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.
INITIAL IDENTIFICATION:
MARCH 5, 1974
FLOOD HAZARD BOUNDARY MAP REVISIONS:
JANUARY 9, 1976
FLOOD INSURANCE RATE MAP EFFECTIVE:
JULY 3, 1980
FLOOD INSURANCE RATE MAP REVISIONS:
Map revised May 1, 1984 to add special flood hazard areas and to reflect new FEMA title block
To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620.
APPROXIMATE SCALE
1000 0 1000 FEET
ELEVATION REFERENCE MARKS
REFERENCE MARKS
ELEVATION FEET (NGVD)
DESCRIPTION OF LOCATION
RM 1
478.33
Chiseled square in top of concrete abutment of northeast corner of Humbert Road bridge over Coal Branch Creek.
RM 2
458.06
Square cut in top of concrete abutment of northwest corner of North Rodgers Road bridge over Coal Branch Creek.
RM 3
444.38
Railroad spike in south side of 36-inch cottonwood tree located approximately 35 feet southeast of Crest Drive culvert along Belt Line Creek.
RM 4
432.29
Spike in east side of power pole located approximately 15 feet east of upstream culvert on north side of Joesting Avenue over Shields Branch.
RM 5
408.51
Square cut in top of northeast corner of concrete box culvert of State Route 111 over Belt Line Creek.
NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP
CITY OF
ALTON,
ILLINOIS
MADISON COUNTY
ONLY PANEL PRINTED
COMMUNITY-PANEL NUMBER
170437 0005 C
MAP REVISED:
MAY 1, 1984
Federal Emergency Management Agency
ZONE C
ZONE A1
ZONE A4
ZONE A
ZONE A3
ZONE A8
ZONE A2
ZONE A12
ZONE A21
ZONE A20
ZONE B
CORPORATE LIMITS
LIMIT OF DETAILED STUDY
County of Madison
MISSISSIPPI RIVER
ILLINOIS
MISSOURI
MADISON COUNTY
ST CHARLES COUNTY
STATE BOUNDARY
ILLINOIS CENTRAL GULF RAILROAD
ILLINOIS TERMINAL RAILROAD
CONRAIL
Coal Branch Creek
Belt Line Creek
Shields Branch
West Fork Wood River
Lock and Dam Number 26
M 204
M 203
M 202
RM1
RM2
RM3
RM4
RM5
EAST BROADWAY
FRONT STREET
STATE STREET
PIASA STREET
HENRY STREET
CLIFF ST
BLUFF STREET
MILTON ROAD
ALBERT PARK
ALTON SQUARE
ALTON CITY HALL
ALTON MUSEUM OF HISTORY AND ART
ALTON POST OFFICE
ALTON RAILROAD STATION
ALTON SQUARE MALL
ALTON STATE PARK
ALTON-WOOD RIVER BRIDGE
ARMORY PARK
BELLE ROSE PARK
CITY HALL
CITY PARK
CLARK BRIDGE
CLARK MEMORIAL BRIDGE
CLIFF TERRACE PARK
COLLEGE AVENUE
CORONADO DRIVE
CREST DRIVE
DOUGLAS MACARTHUR BRIDGE
EAST FERRY STREET
EDWARDS STREET
ELM STREET
FAIRMOUNT PARK
FIRE STATION NO. 2
FIRE STATION NO. 3
GLASS HOUSE
GRANITE CITY
HAMILTON BOULEVARD
HIGHLAND AVENUE
HOMER ADAMS PARKWAY
HORN AVENUE
JOESTING AVENUE
LEVEE
LOCUST STREET
MAIN STREET
MARKET STREET
MELVILLE AVENUE
MILITARY ROAD
NORTH RODGERS ROAD
OAKWOOD AVENUE
OLIVE STREET
PENNSYLVANIA AVENUE
PIASA
PIERCE BOULEVARD
PINE STREET
RIVERBEND
SECOND STREET
SHIELDS BRANCH
SUMMIT STREET
TEMPLE AVENUE
TWENTY-FOURTH STREET
WESTERN AVENUE
WILLIAM STREET
WOOD RIVER
WOODLAWN CEMETERY
WOODRUFF DRIVE

Appendix K



*PANEL NOT PRINTED: NO FLOODWAY DELINEATED. FOR FLOOD BOUNDARIES, SEE CORRESPONDING FLOOD INSURANCE RATE MAP PANEL PUBLISHED SEPARATELY.

NATIONAL FLOOD INSURANCE PROGRAM

FLOODWAY

FLOOD BOUNDARY AND FLOODWAY MAP

CITY OF
COLLINSVILLE,
ILLINOIS
MADISON AND ST CLAIR COUNTIES

MAP INDEX

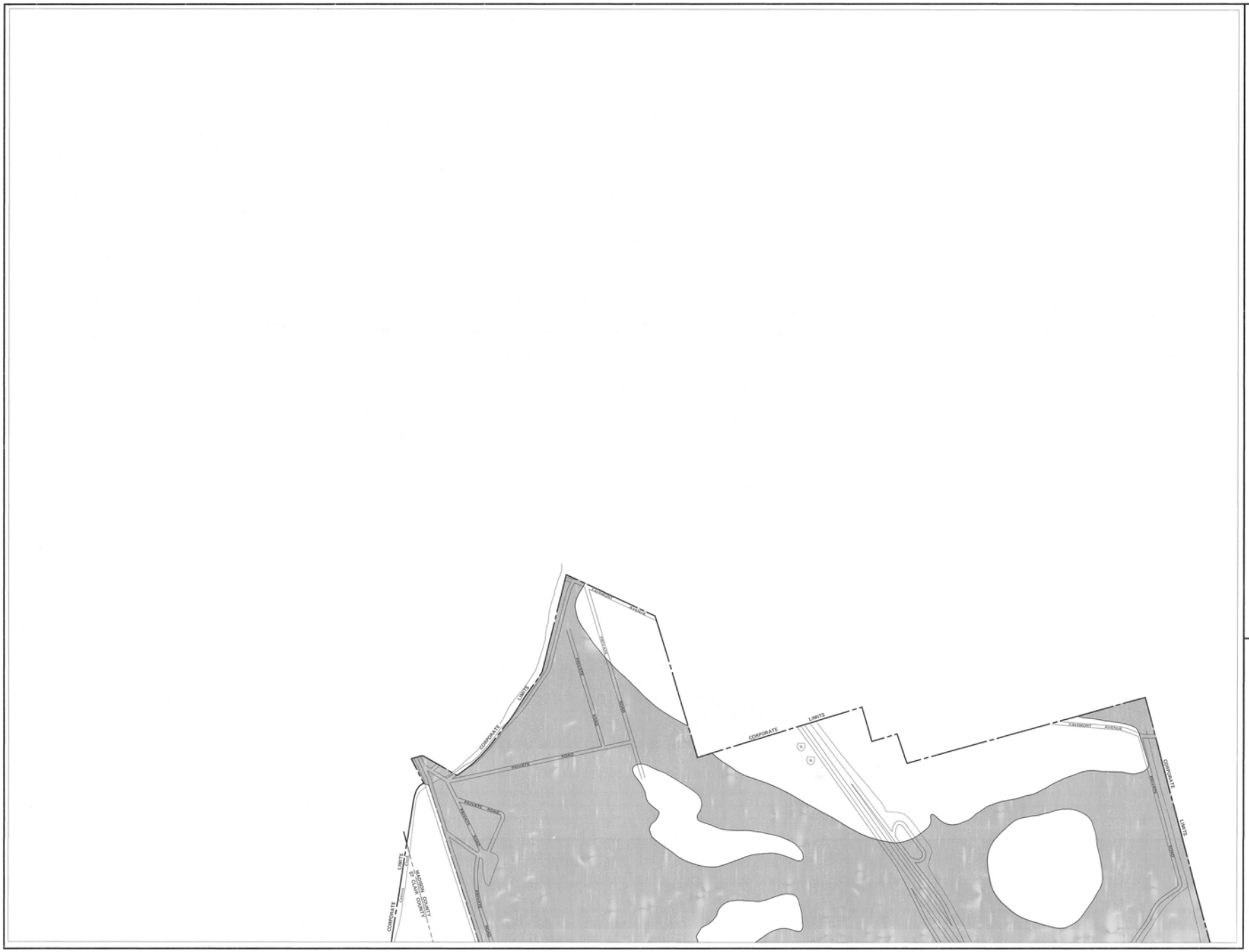
PANELS PRINTED: 1, 2, 4, 5

COMMUNITY-PANEL NUMBERS
170439 0001-0005

EFFECTIVE DATE:
FEBRUARY 18, 1981

federal emergency management agency
federal insurance administration

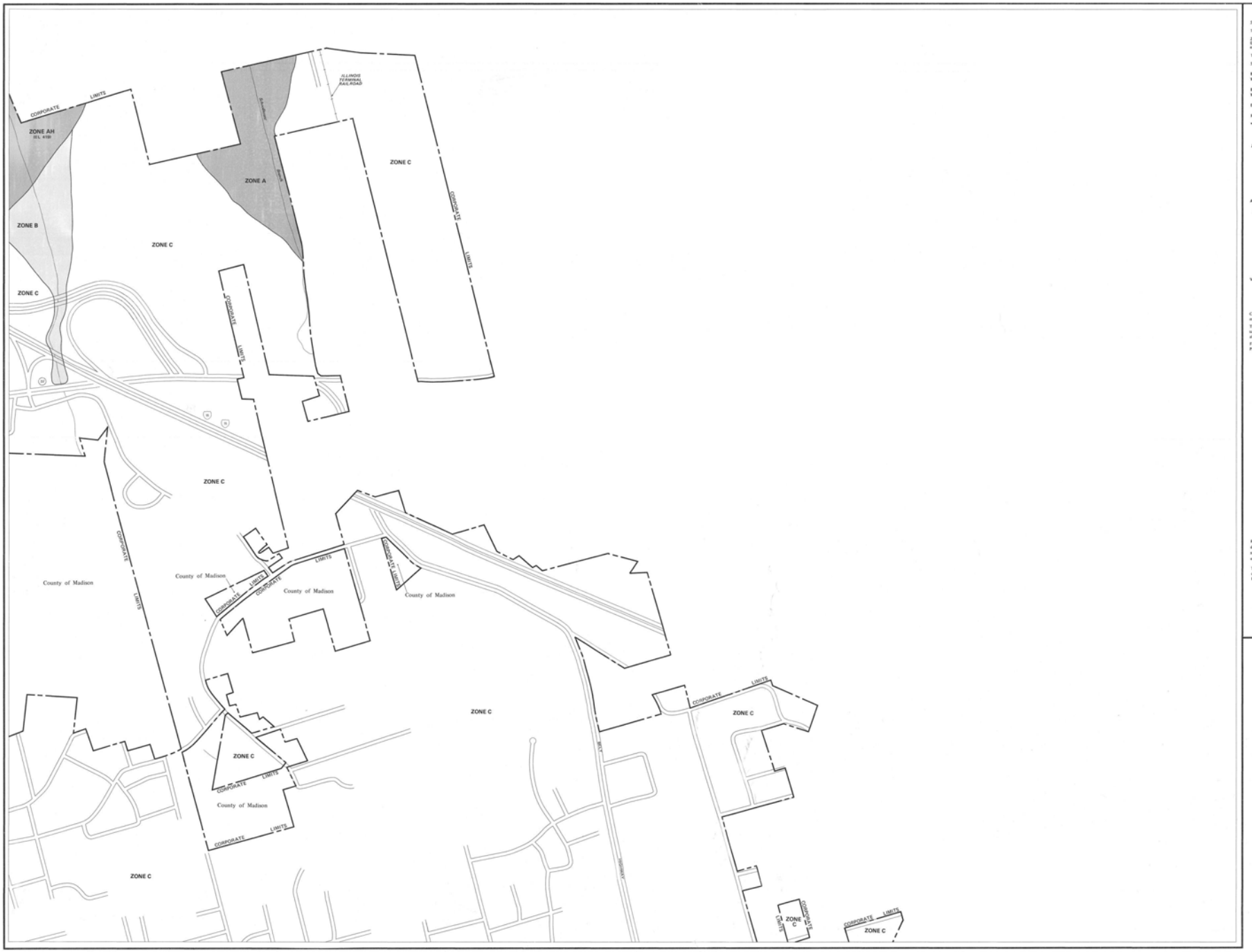
Appendix K


KEY TO MAP
100-Year Flood Boundary
100-Year Flood Boundary
FLOODWAY FRINGE
FLOODWAY
100-Year Flood Boundary
100-Year Flood Boundary
Approximate 100-Year Flood Boundary
Cross Section Line
A
A
Elevation Reference Mark
RM7
River Mile
M1.5
NOTES TO USER
Boundaries of the floodways were computed at cross-sections and interpolated between cross-sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Insurance Administration.
This map was prepared to facilitate flood plain management activities only; it may not show all special flood hazard areas in the community or all planimetric features outside of the flood plain. Refer to the latest official Flood Insurance Rate Map for any additional areas of special flood hazard.
For adjoining map panels, see separately printed Index to Map Panels.
APPROXIMATE SCALE
400
0
400 FEET
NATIONAL FLOOD INSURANCE PROGRAM
FLOODWAY
FLOOD BOUNDARY AND FLOODWAY MAP
CITY OF
COLLINSVILLE,
ILLINOIS
MADISON AND ST CLAIR COUNTIES
PANEL 1 OF 5
(SEE MAP INDEX FOR PANELS NOT PRINTED)
COMMUNITY-PANEL NUMBER
170439 0001
EFFECTIVE DATE:
FEBRUARY 18, 1981
federal emergency management agency
federal insurance administration
CORPORATE LIMITS
MADISON COUNTY
ST CLAIR COUNTY
PRIVATE ROAD
FAIRMONT AVENUE

Appendix K


ELEVATION REFERENCE MARKS
REFERENCE MARKS
ELEVATION FEET (NGVD)
DESCRIPTION OF LOCATION
RM 1
444.74
Top of "W" in "Iowa" on fire hydrant located approximately 30 feet east of east side of south concrete abutment of State Route 157 bridge over Conrail track.
KEY TO MAP
100-Year Flood Boundary
100-Year Flood Boundary
FLOODWAY FRINGE
FLOODWAY
100-Year Flood Boundary
500-Year Flood Boundary
Approximate 100-Year Flood Boundary
Cross Section Line
Elevation Reference Mark
River Mile
NOTES TO USER
Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Insurance Administration.
This map was prepared to facilitate flood plain management activities only; it may not show all special flood hazard areas in the community or all planimetric features outside of the flood plain. Refer to the latest official Flood Insurance Rate Map for any additional areas of special flood hazard.
For adjoining map panels, see separately printed Index to Map Panels.
APPROXIMATE SCALE
400
0
400 FEET
CORPORATE LIMITS
FLOODWAY
County of Madison
MADISON COUNTY
ST CLAIR COUNTY
FARM ROAD
PRIVATE ROAD
PRIVATE ROADS
RM1
NATIONAL FLOOD INSURANCE PROGRAM
FLOODWAY
FLOOD BOUNDARY AND FLOODWAY MAP
CITY OF
COLLINSVILLE,
ILLINOIS
MADISON AND ST CLAIR COUNTIES
PANEL 2 OF 5
SEE MAP INDEX FOR PANELS NOT PRINTED
COMMUNITY-PANEL NUMBER
170439 0002
EFFECTIVE DATE:
FEBRUARY 18, 1981
federal emergency management agency
federal insurance administration

Appendix K



KEY TO MAP

100-Year Flood Boundary
500-Year Flood Boundary
Zone Designations* With Date of Identification e.g., 12/2/74
100-Year Flood Boundary
500-Year Flood Boundary
ZONE B
ZONE A (DATE)
ZONE AE (DATE)
ZONE B

Base Flood Elevation Line With Elevation In Feet**
Base Flood Elevation In Feet Where Uniform Within Zone**
Elevation Reference Mark
River Mile

EL 987
RM7 X
M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
AO	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:
MAY 24, 1974

FLOOD HAZARD BOUNDARY MAP REVISIONS:
APRIL 2, 1976

FLOOD INSURANCE RATE MAP EFFECTIVE:
FEBRUARY 18, 1981

FLOOD INSURANCE RATE MAP REVISIONS:

Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620, or (800) 424-8872.

APPROXIMATE SCALE
400 0 400 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
COLLINSVILLE,
ILLINOIS
MADISON AND ST CLAIR COUNTIES

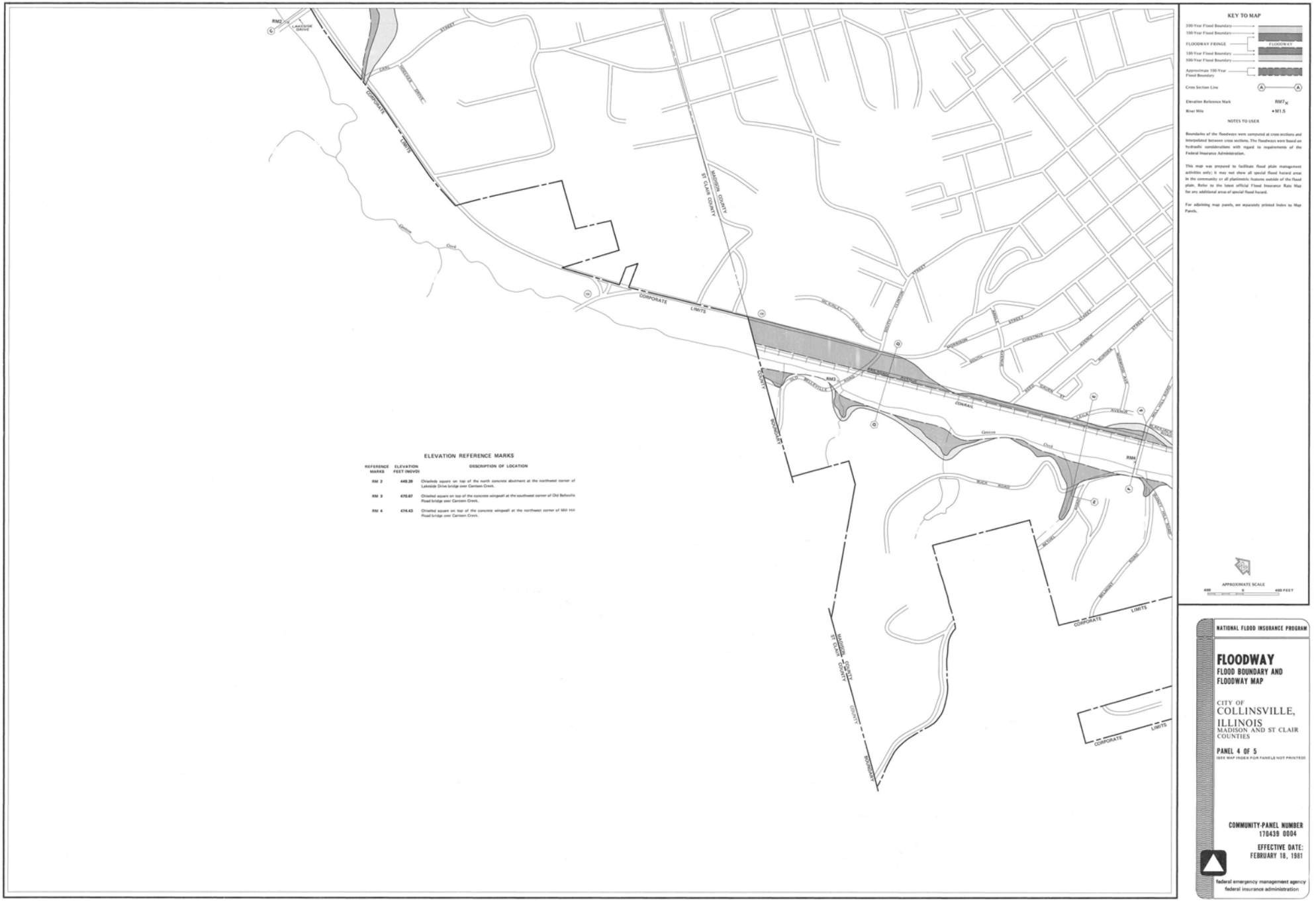
PANEL 3 OF 5

COMMUNITY-PANEL NUMBER
170439 0003 B

EFFECTIVE DATE:
FEBRUARY 18, 1981

federal emergency management agency
federal insurance administration

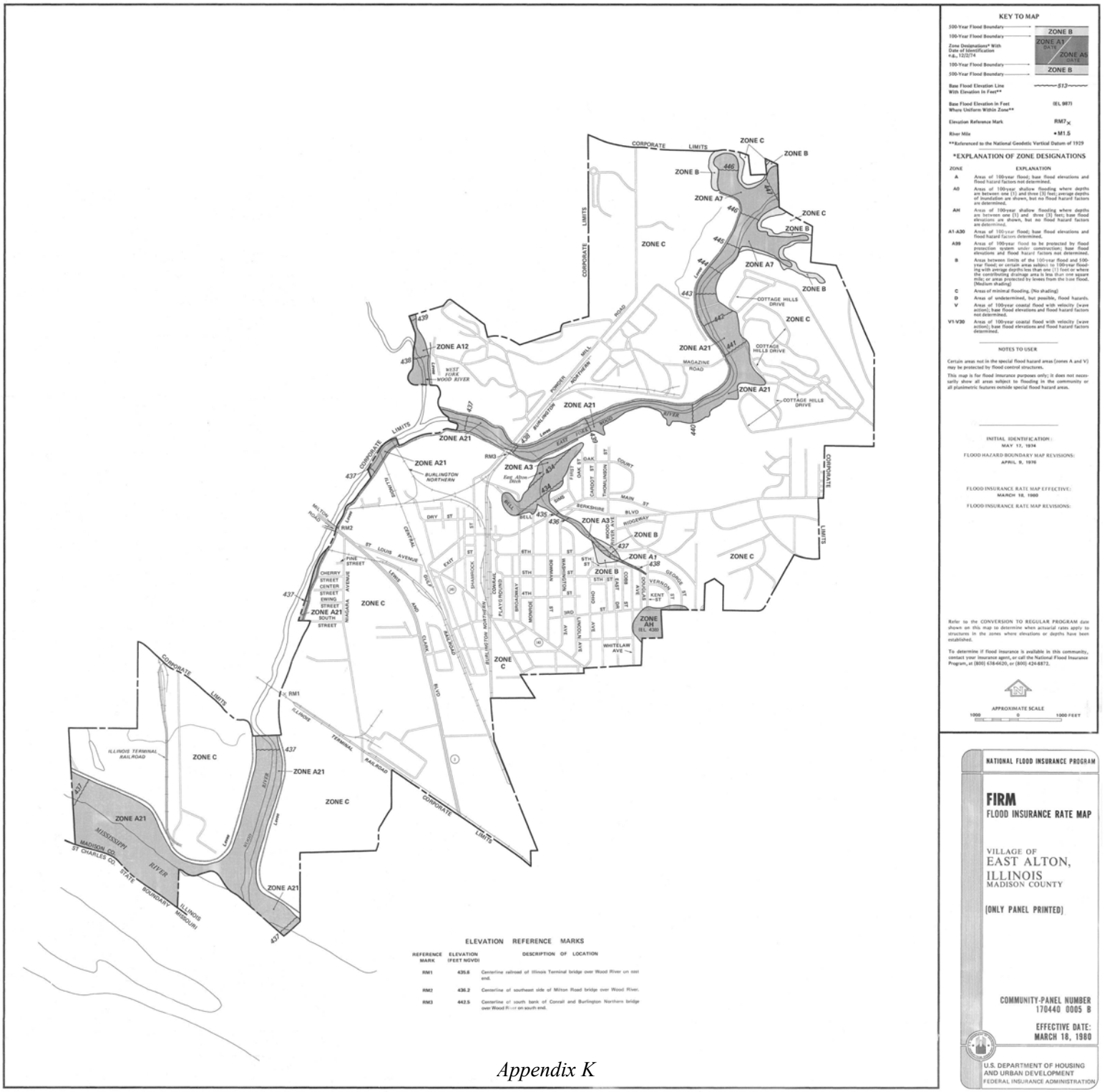
Appendix K


KEY TO MAP
100-Year Flood Boundary
100-Year Flood Boundary
FLOODWAY FRINGE
FLOODWAY
100-Year Flood Boundary
500-Year Flood Boundary
Approximate 100-Year Flood Boundary
Cross Section Line
Elevation Reference Mark
River Mile
NOTES TO USER
Boundaries of the floodways were computed at cross-sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Insurance Administration.
This map was prepared to facilitate flood plain management activities only; it may not show all special flood hazard areas in the community or all planimetric features outside of the flood plain. Refer to the latest official Flood Insurance Rate Map for any additional areas of special flood hazard.
For adjoining map panels, see separately printed Index to Map Panels.
APPROXIMATE SCALE
400 0 400 FEET
ELEVATION REFERENCE MARKS
REFERENCE MARKS
ELEVATION FEET (NGVD)
DESCRIPTION OF LOCATION
RM 2 449.39 Chiseled square on top of the north concrete abutment at the northwest corner of Lakeside Drive bridge over Canteen Creek.
RM 3 470.67 Chiseled square on top of the concrete wingwall at the southwest corner of Old Belleville Road bridge over Canteen Creek.
RM 4 474.43 Chiseled square on top of the concrete wingwall at the northwest corner of Mill Hill Road bridge over Canteen Creek.
RM2
RM3
RM4
LAKESIDE DRIVE
CORPORATE LIMITS
MADISON COUNTY
ST CLAIR COUNTY
BOUNDARY
CONRAIL
OLD BELLEVILLE ROAD
BUCK ROAD
MILL HILL ROAD
MAPLE STREET
CHESTNUT STREET
MCKINLEY AVENUE
SOUTH DUNCAN AVENUE
JEFFERSON AVENUE
SOUTH MORRISON AVENUE
WEST MORRISON AVENUE
MORRISON AVE
LEGLE AVENUE
Canteen Creek
Creek
NATIONAL FLOOD INSURANCE PROGRAM
FLOODWAY
FLOOD BOUNDARY AND FLOODWAY MAP
CITY OF
COLLINSVILLE,
ILLINOIS
MADISON AND ST CLAIR COUNTIES
PANEL 4 OF 5
SEE MAP INDEX FOR PANELS NOT PRINTED
COMMUNITY-PANEL NUMBER
170439 0004
EFFECTIVE DATE:
FEBRUARY 18, 1981
federal emergency management agency
federal insurance administration

Appendix K


KEY TO MAP
100-Year Flood Boundary
100-Year Flood Boundary
FLOODWAY FRINGE
FLOODWAY
100-Year Flood Boundary
500-Year Flood Boundary
Approximate 100-Year Flood Boundary
Cross Section Line
A
A
Elevation Reference Mark
RM7x
River Mile
M1.5
NOTES TO USER
Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Insurance Administration.
This map was prepared to facilitate flood plain management activities only; it may not show all special flood hazard areas in the community or all planimetric features outside of the flood plain. Refer to the latest official Flood Insurance Rate Map for any additional areas of special flood hazard.
For adjoining map panels, see separately printed Index to Map Panels.
APPROXIMATE SCALE
400
0
400 FEET
CORPORATE LIMITS
County of Madison
County of Madison
County of Madison
County of Madison
BLACKJACK ROAD
MONROE STREET
MULBERRY STREET
RM5
REFERENCE MARKS
ELEVATION FEET (NGVD)
DESCRIPTION OF LOCATION
RM 5
482.62
Chiseled square on top of the concrete wingwall at the northwest corner of Mulberry Street bridge over Canteen Creek.
NATIONAL FLOOD INSURANCE PROGRAM
FLOODWAY
FLOOD BOUNDARY AND FLOODWAY MAP
CITY OF
COLLINSVILLE,
ILLINOIS
MADISON AND ST CLAIR COUNTIES
PANEL 5 OF 5
(SEE MAP INDEX FOR PANELS NOT PRINTED)
COMMUNITY-PANEL NUMBER
170439 0005
EFFECTIVE DATE:
FEBRUARY 18, 1981
federal emergency management agency
federal insurance administration

Appendix K



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

VILLAGE OF
EAST ALTON,
ILLINOIS
MADISON COUNTY

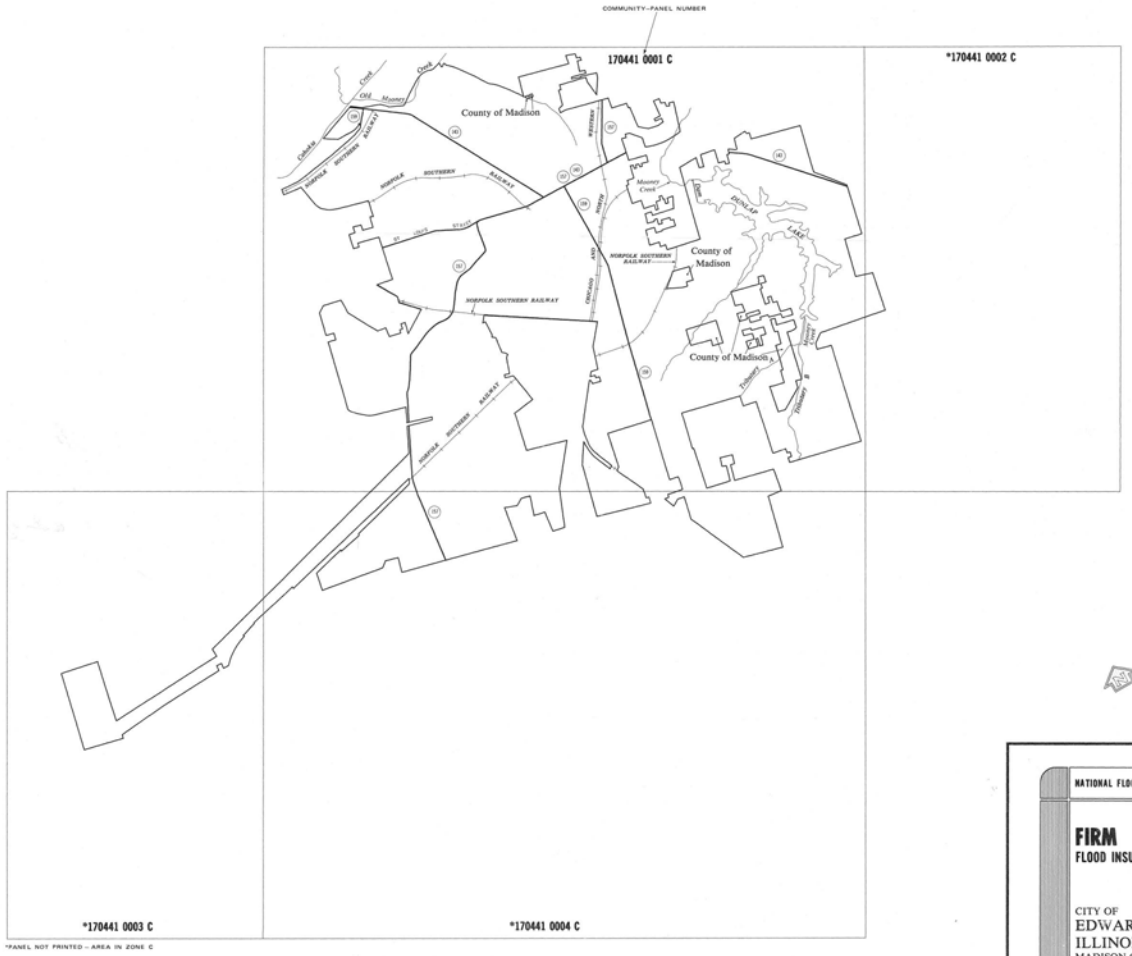
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COMMUNITY-PANEL NUMBER
170440 0005 B

EFFECTIVE DATE:
MARCH 18, 1980

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

Appendix K



NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
EDWARDSVILLE,
ILLINOIS
MADISON COUNTY

MAP INDEX
PANEL PRINTED: 1

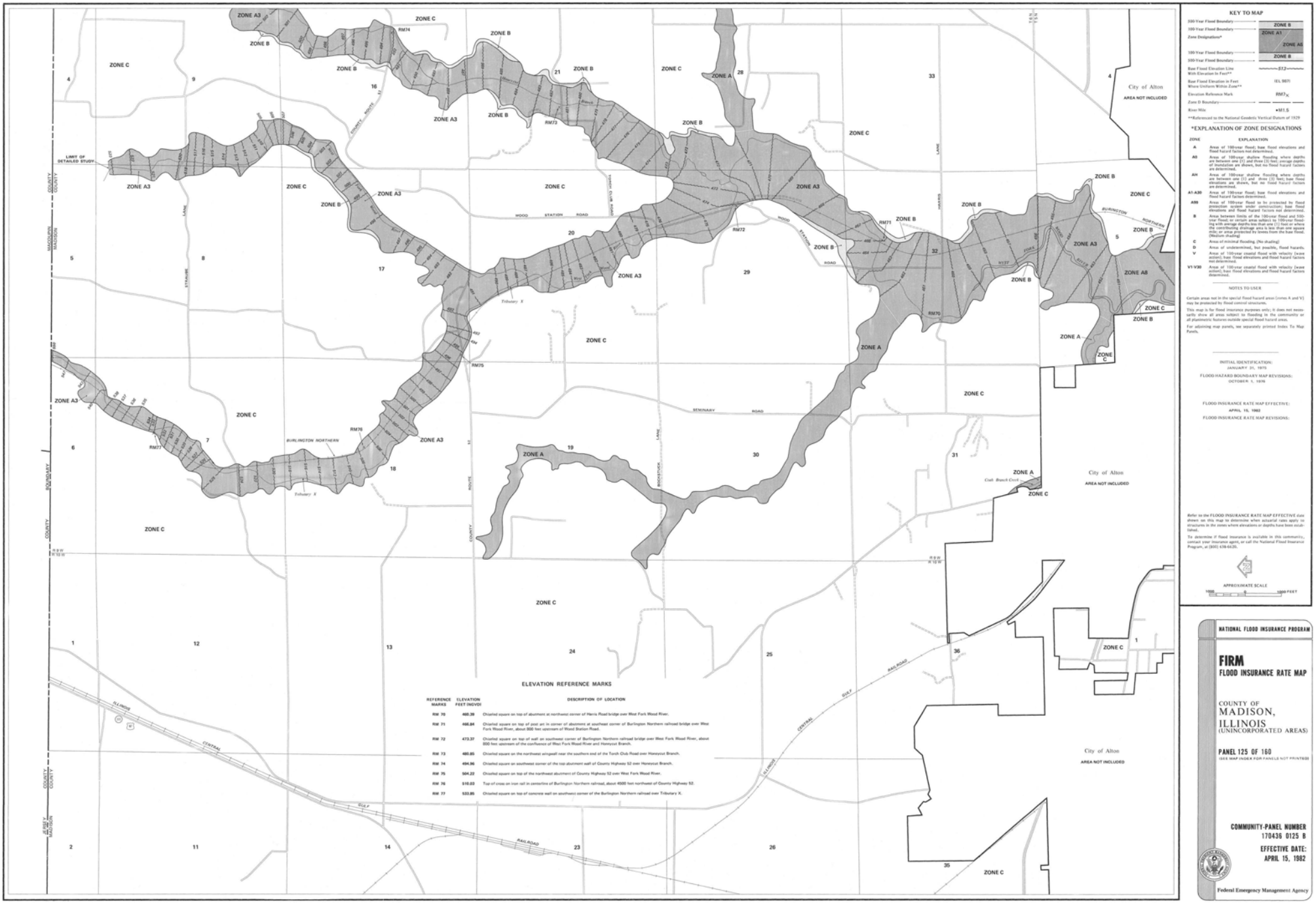
COMMUNITY-PANEL NUMBERS
170441 0001 – 0004

EFFECTIVE DATE:
JANUARY 18, 1984

Federal Emergency Management Agency


KEY TO MAP
100-Year Flood Boundary
100-Year Flood Boundary
Zone Designations*
100-Year Flood Boundary
100-Year Flood Boundary
Base Flood Elevation Line With Elevation In Feet**
Base Flood Elevation in Feet Where Uniform Within Zone**
Elevation Reference Mark
Zone D Boundary
River Mile
**Referenced to the National Geodetic Vertical Datum of 1929
*EXPLANATION OF ZONE DESIGNATIONS
ZONE
EXPLANATION
NOTES TO USER
INITIAL IDENTIFICATION:
APRIL 5, 1974
FLOOD HAZARD BOUNDARY MAP REVISIONS:
JULY 2, 1976
DECEMBER 28, 1980
FLOOD INSURANCE RATE MAP EFFECTIVE:
JANUARY 18, 1984
FLOOD INSURANCE RATE MAP REVISIONS:
APPROXIMATE SCALE
NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP
CITY OF
EDWARDSVILLE,
ILLINOIS
MADISON COUNTY
PANEL 1 OF 4
COMMUNITY-PANEL NUMBER
170441 0001 C
EFFECTIVE DATE:
JANUARY 18, 1984
Federal Emergency Management Agency

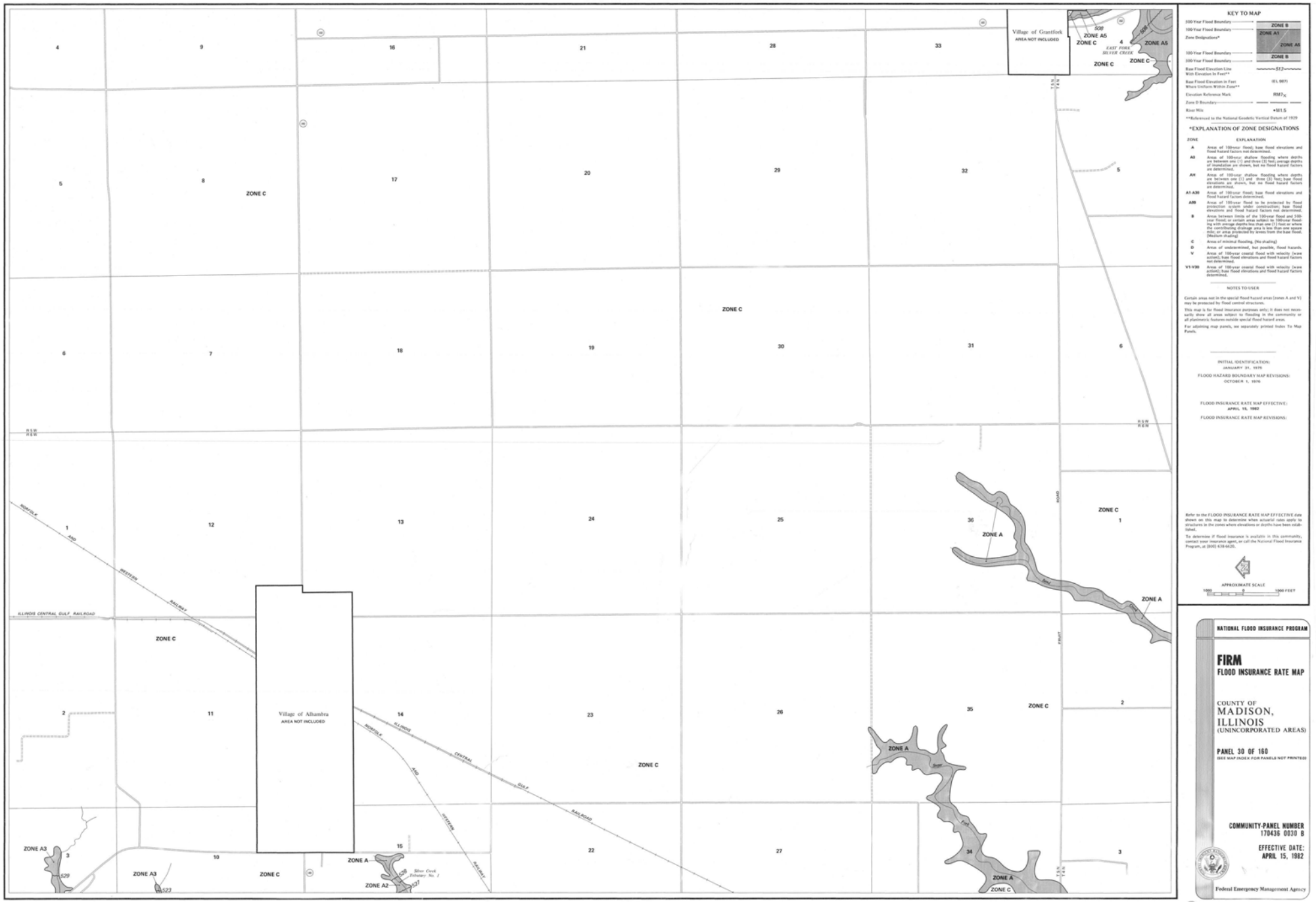
Appendix K


KEY TO MAP
100-Year Flood Boundary
500-Year Flood Boundary
Zone Designations*
Base Flood Elevation Line With Elevation In Feet**
Base Flood Elevation in Feet Where Uniform Within Zone**
Elevation Reference Mark
Zone D Boundary
River Mile
**Referenced to the National Geodetic Vertical Datum of 1929
*EXPLANATION OF ZONE DESIGNATIONS
ZONE
EXPLANATION
NOTES TO USER
INITIAL IDENTIFICATION: JANUARY 31, 1975
FLOOD HAZARD BOUNDARY MAP REVISIONS: OCTOBER 1, 1976
FLOOD INSURANCE RATE MAP EFFECTIVE: APRIL 15, 1982
FLOOD INSURANCE RATE MAP REVISIONS:
APPROXIMATE SCALE
1000 0 1000 FEET
ELEVATION REFERENCE MARKS
REFERENCE MARKS
ELEVATION FEET (NGVD)
DESCRIPTION OF LOCATION
RM 70 460.39 Chiseled square on top of abutment at northwest corner of Harris Road bridge over West Fork Wood River.
RM 71 466.84 Chiseled square on top of post set in corner of abutment at southeast corner of Burlington Northern railroad bridge over West Fork Wood River, about 800 feet upstream of Wood Station Road.
RM 72 473.37 Chiseled square on top of wall on southwest corner of Burlington Northern railroad bridge over West Fork Wood River, about 800 feet upstream of the confluence of West Fork Wood River and Honeycut Branch.
RM 73 480.85 Chiseled square on the northwest wingwall near the southern end of the Torch Club Road over Honeycut Branch.
RM 74 494.96 Chiseled square on southeast corner of the top abutment wall of County Highway 52 over Honecut Branch.
RM 75 504.22 Chiseled square on top of the northeast abutment of County Highway 52 over West Fork Wood River.
RM 76 510.03 Top of cross on iron rail in centerline of Burlington Northern railroad, about 4500 feet northwest of County Highway 52.
RM 77 533.85 Chiseled square on top of concrete wall on southwest corner of the Burlington Northern railroad over Tributary X.
NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP
COUNTY OF MADISON, ILLINOIS (UNINCORPORATED AREAS)
PANEL 125 OF 160
SEE MAP INDEX FOR PANELS NOT PRINTED
COMMUNITY-PANEL NUMBER 170436 0125 B
EFFECTIVE DATE: APRIL 15, 1982
Federal Emergency Management Agency
City of Alton
AREA NOT INCLUDED
LIMIT OF DETAILED STUDY
ZONE A
ZONE A3
ZONE A8
ZONE B
ZONE C
Tributary X
Coal Branch Creek
WOOD STATION ROAD
SEMINARY ROAD
BURLINGTON NORTHERN
ILLINOIS CENTRAL GULF RAILROAD

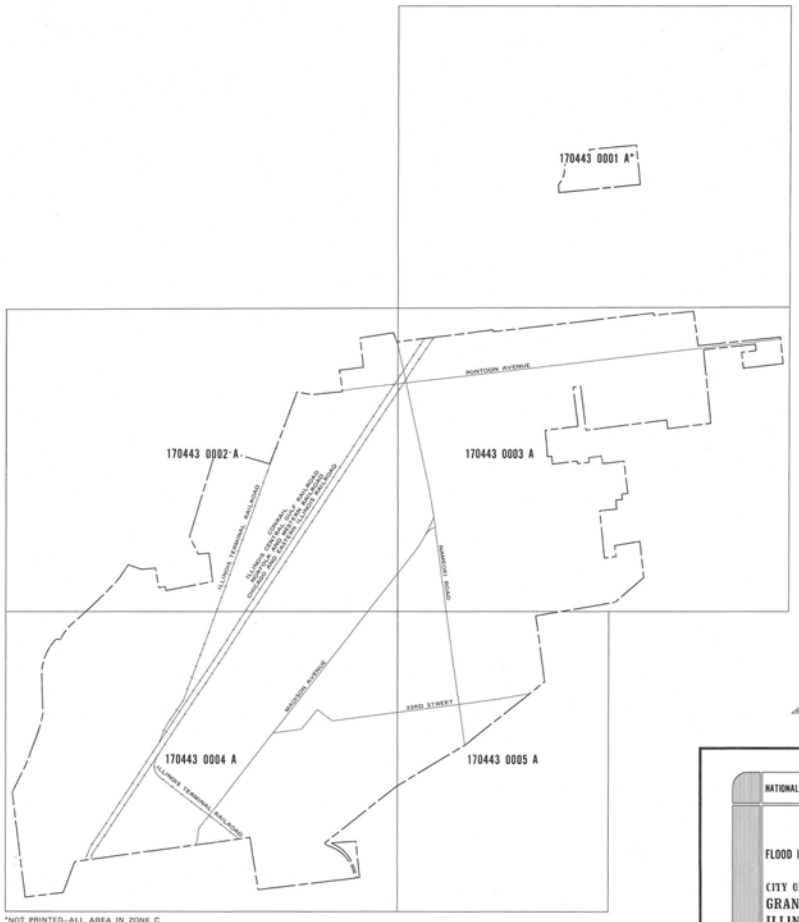
Appendix K


KEY TO MAP
100-Year Flood Boundary
ZONE B
100-Year Flood Boundary
Zone Designations*
ZONE A1
ZONE A9
100-Year Flood Boundary
ZONE B
100-Year Flood Boundary
Base Flood Elevation Line With Elevation In Feet**
513
Base Flood Elevation in Feet Where Uniform Within Zone**
(EL 987)
Elevation Reference Mark
RM7x
Zone D Boundary
River Mile
•M1.5
**Referenced to the National Geodetic Vertical Datum of 1929
*EXPLANATION OF ZONE DESIGNATIONS
ZONE
EXPLANATION
A
Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
AO
Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH
Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30
Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99
Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B
Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C
Areas of minimal flooding. (No shading)
D
Areas of undetermined, but possible, flood hazards.
V
Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30
Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.
NOTES TO USER
Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.
This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.
For adjoining map panels, see separately printed Index To Map Panels.
INITIAL IDENTIFICATION:
JANUARY 31, 1975
FLOOD HAZARD BOUNDARY MAP REVISIONS:
OCTOBER 1, 1976
FLOOD INSURANCE RATE MAP EFFECTIVE:
APRIL 15, 1982
FLOOD INSURANCE RATE MAP REVISIONS:
Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.
To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620.
APPROXIMATE SCALE
1000 0 1000 FEET
NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP
COUNTY OF
MADISON,
ILLINOIS
(UNINCORPORATED AREAS)
PANEL 145 OF 160
SEE MAP INDEX FOR PANELS NOT PRINTED
COMMUNITY-PANEL NUMBER
170436 0145 B
EFFECTIVE DATE:
APRIL 15, 1982
Federal Emergency Management Agency
City of Alton
AREA NOT INCLUDED
ZONE A
ZONE A20
ZONE C
ILLINOIS CENTRAL GULF RAILROAD
ALTON & SOUTHERN RAILROAD
CENTRAL
ILLINOIS
RIVER
MISSISSIPPI
PIASA
ISLAND
ILLINOIS
MISSOURI
STATE BOUNDARY
COUNTY BOUNDARY
JERSEY
MADISON
COUNTY
COUNTY ROAD
ROAD
CREEK
FORK
M205
M206
M207
R 10 W

Appendix K


KEY TO MAP
500-Year Flood Boundary
100-Year Flood Boundary
Zone Designations*
ZONE B
ZONE A1
ZONE A6
ZONE B
100-Year Flood Boundary
500-Year Flood Boundary
Base Flood Elevation Line With Elevation In Feet**
513
Base Flood Elevation in Feet Where Uniform Within Zone**
(EL 987)
Elevation Reference Mark
RM7x
Zone D Boundary
River Mile
•M1.5
**Referenced to the National Geodetic Vertical Datum of 1929
*EXPLANATION OF ZONE DESIGNATIONS
ZONE
EXPLANATION
A
Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
AO
Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH
Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30
Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99
Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B
Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C
Areas of minimal flooding. (No shading)
D
Areas of undetermined, but possible, flood hazards.
V
Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30
Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.
NOTES TO USER
Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.
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JANUARY 31, 1975
FLOOD HAZARD BOUNDARY MAP REVISIONS:
OCTOBER 1, 1976
FLOOD INSURANCE RATE MAP EFFECTIVE:
APRIL 15, 1982
FLOOD INSURANCE RATE MAP REVISIONS:
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APPROXIMATE SCALE
1000 0 1000 FEET
NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP
COUNTY OF
MADISON,
ILLINOIS
(UNINCORPORATED AREAS)
PANEL 30 OF 160
SEE MAP INDEX FOR PANELS NOT PRINTED
COMMUNITY-PANEL NUMBER
170436 0030 B
EFFECTIVE DATE:
APRIL 15, 1982
Federal Emergency Management Agency
Village of Grantfork
AREA NOT INCLUDED
Village of Alhambra
AREA NOT INCLUDED
ZONE A
ZONE A1
ZONE A2
ZONE A3
ZONE A5
ZONE C
EAST FORK SILVER CREEK
ILLINOIS CENTRAL GULF RAILROAD
NORFOLK AND WESTERN RAILWAY
Silver Creek Tributary No. 1
R 5 W
R 4 W
T 5 N
T 4 N
ROAD
TROUT

Appendix K



*NOT PRINTED--ALL AREA IN ZONE C

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

CITY OF
GRANITE CITY,
ILLINOIS
MADISON COUNTY

INDEX TO MAP PAGES
1 THROUGH 5

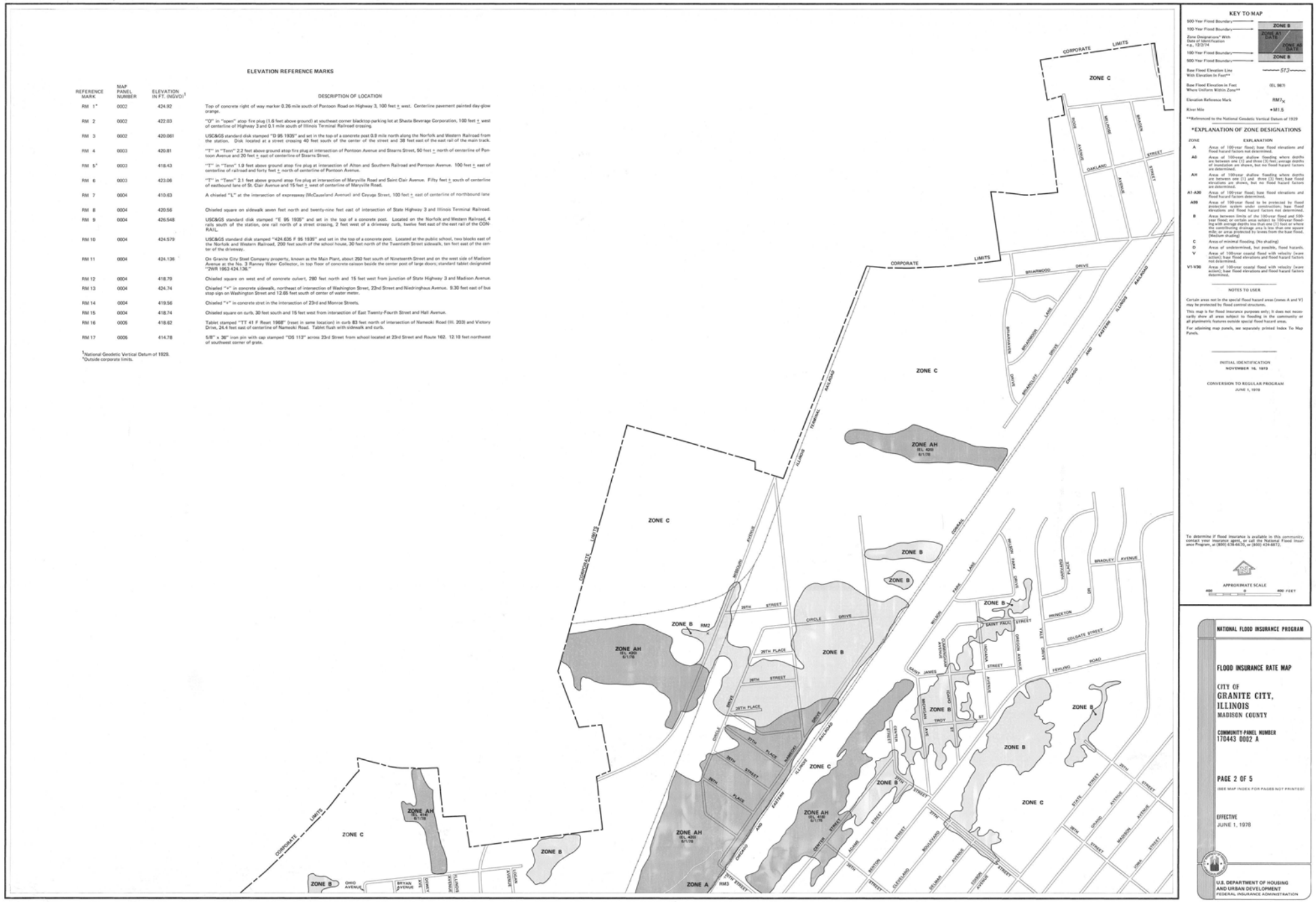
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COMMUNITY-PANEL NUMBER
170443 0001--0005

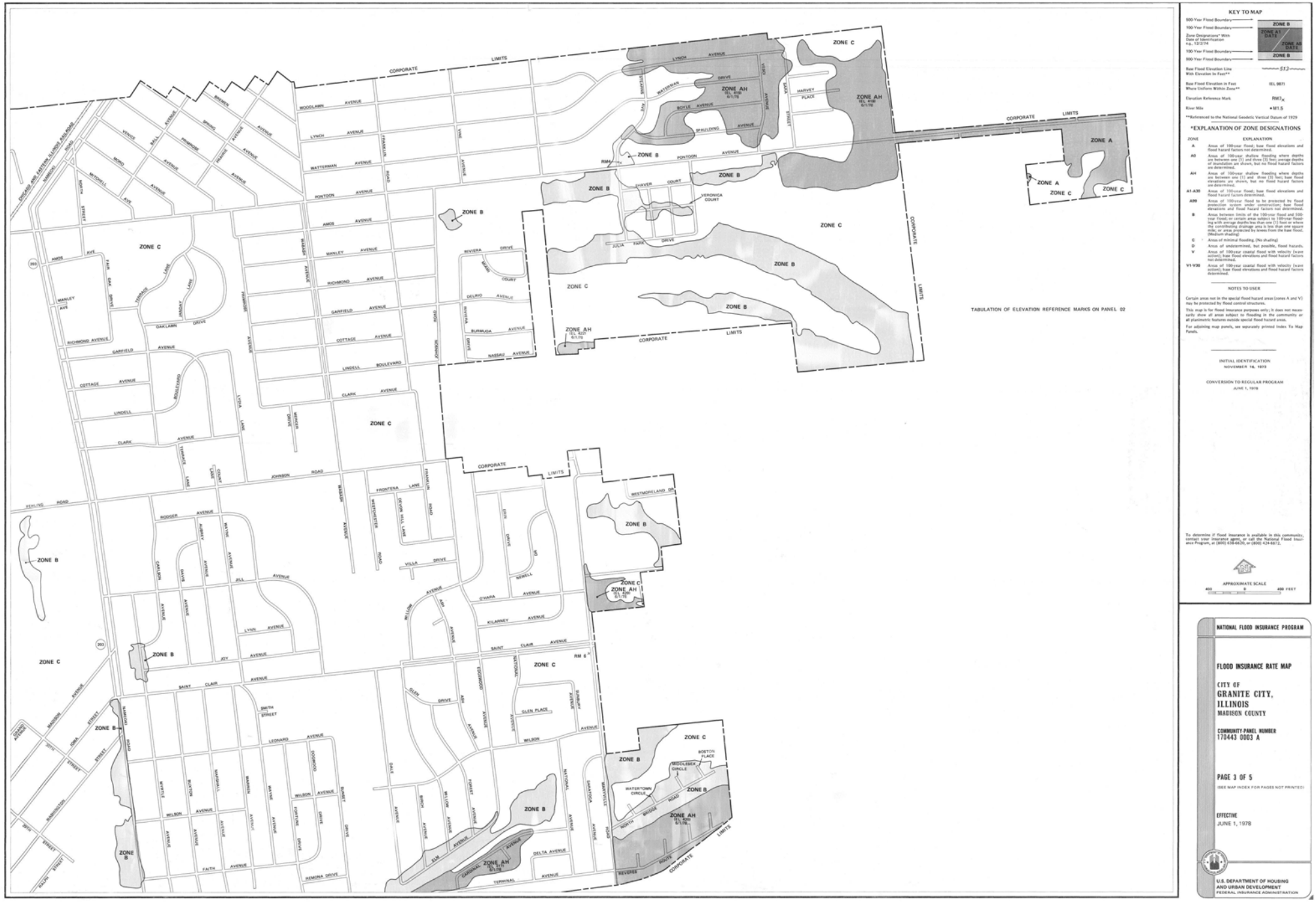
EFFECTIVE
JUNE 1, 1978

U.S. DEPARTMENT OF HOUSING
AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

Appendix K


ELEVATION REFERENCE MARKS
REFERENCE MARK
MAP PANEL NUMBER
ELEVATION IN FT. (NGVD)[1]
DESCRIPTION OF LOCATION
RM 1* 0002 424.92 Top of concrete right of way marker 0.26 mile south of Pontoon Road on Highway 3, 100 feet ± west. Centerline pavement painted day-glow orange.
RM 2 0002 422.03 "O" in "open" atop fire plug (1.6 feet above ground) at southeast corner blacktop parking lot at Shasta Beverage Corporation, 100 feet ± west of centerline of Highway 3 and 0.1 mile south of Illinois Terminal Railroad crossing.
RM 3 0002 420.061 USC&GS standard disk stamped "D 95 1935" and set in the top of a concrete post 0.9 mile north along the Norfolk and Western Railroad from the station. Disk located at a street crossing 40 feet south of the center of the street and 38 feet east of the east rail of the main track.
RM 4 0003 420.81 "T" in "Town" 2.2 feet above ground atop fire plug at intersection of Pontoon Avenue and Stearns Street, 50 feet ± north of centerline of Pontoon Avenue and 20 feet ± east of centerline of Stearns Street.
RM 5* 0003 418.43 "T" in "Town" 1.9 feet above ground atop fire plug at intersection of Alton and Southern Railroad and Pontoon Avenue. 100 feet ± east of centerline of railroad and forty feet ± north of centerline of Pontoon Avenue.
RM 6 0003 423.06 "T" in "Town" 2.1 feet above ground atop fire plug at intersection of Maryville Road and Saint Clair Avenue. Fifty feet ± south of centerline of eastbound lane of St. Clair Avenue and 15 feet ± west of centerline of Maryville Road.
RM 7 0004 410.63 A chiseled "L" at the intersection of expressway (McCausland Avenue) and Cayuga Street, 100 feet ± east of centerline of northbound lane
RM 8 0004 420.56 Chiseled square on sidewalk seven feet north and twenty-nine feet east of intersection of State Highway 3 and Illinois Terminal Railroad.
RM 9 0004 426.548 USC&GS standard disk stamped "E 95 1935" and set in the top of a concrete post. Located on the Norfolk and Western Railroad, 4 rails south of the station, one rail north of a street crossing, 2 feet west of a driveway curb, twelve feet east of the east rail of the CONRAIL.
RM 10 0004 424.579 USC&GS standard disk stamped "424.635 F 95 1935" and set in the top of a concrete post. Located at the public school, two blocks east of the Norfolk and Western Railroad, 200 feet south of the school house, 30 feet north of the Twentieth Street sidewalk, ten feet east of the center of the driveway.
RM 11 0004 424.136 On Granite City Steel Company property, known as the Main Plant, about 250 feet south of Nineteenth Street and on the west side of Madison Avenue at the No. 3 Ranney Water Collector, in top floor of concrete caisson beside the center post of large doors; standard tablet designated "2WR 1953 424.136."
RM 12 0004 418.79 Chiseled square on west end of concrete culvert, 280 feet north and 15 feet west from junction of State Highway 3 and Madison Avenue.
RM 13 0004 424.74 Chiseled "+" in concrete sidewalk, northeast of intersection of Washington Street, 22nd Street and Niedringhaus Avenue. 9.30 feet east of bus stop sign on Washington Street and 12.65 feet south of center of water meter.
RM 14 0004 419.56 Chiseled "+" in concrete strel in the intersection of 23rd and Monroe Streets.
RM 15 0004 418.74 Chiseled square on curb, 30 feet south and 15 feet west from intersection of East Twenty-Fourth Street and Hall Avenue.
RM 16 0005 418.62 Tablet stamped "TT 41 F Reset 1968" (reset in same location) in curb 83 feet north of intersection of Nameoki Road (Ill. 203) and Victory Drive, 24.4 feet east of centerline of Nameoki Road. Tablet flush with sidewalk and curb.
RM 17 0005 414.78 5/8" x 36" iron pin with cap stamped "DS 113" across 23rd Street from school located at 23rd Street and Route 162. 12.10 feet northwest of southeast corner of grate.
[1] National Geodetic Vertical Datum of 1929.
*Outside corporate limits.
KEY TO MAP
500-Year Flood Boundary
100-Year Flood Boundary
Zone Designations* With Date of Identification e.g., 12/2/74
100-Year Flood Boundary
500-Year Flood Boundary
ZONE B
ZONES V1 DATE
ZONE AH DATE
ZONE B
Base Flood Elevation Line With Elevation in Feet**
513
Base Flood Elevation in Feet Where Uniform Within Zone**
(EL 987)
Elevation Reference Mark
RM7×
River Mile
• M1.5
**Referenced to the National Geodetic Vertical Datum of 1929
*EXPLANATION OF ZONE DESIGNATIONS
ZONE EXPLANATION
A Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0 Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30 Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99 Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C Areas of minimal flooding. (No shading)
D Areas of undetermined, but possible, flood hazards.
V Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30 Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.
NOTES TO USER
Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.
This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.
For adjoining map panels, see separately printed Index To Map Panels.
INITIAL IDENTIFICATION
NOVEMBER 16, 1973
CONVERSION TO REGULAR PROGRAM
JUNE 1, 1978
To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620, or (800) 424-8872.
APPROXIMATE SCALE
400 0 400 FEET
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
CITY OF
GRANITE CITY,
ILLINOIS
MADISON COUNTY
COMMUNITY-PANEL NUMBER
170443 0002 A
PAGE 2 OF 5
(SEE MAP INDEX FOR PAGES NOT PRINTED)
EFFECTIVE
JUNE 1, 1978
U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION
CORPORATE LIMITS
ZONE C
ZONE AH
EL. 420
6/1/78
ZONE B
ZONE A
RM2
RM3
ILLINOIS TERMINAL RAILROAD
CHICAGO AND EASTERN ILLINOIS RAILROAD
MISSOURI AVENUE
OHIO AVENUE
BRYAN AVENUE
ADAMS STREET
WASHINGTON AVENUE
MADISON AVENUE
HOGAN AVENUE
20TH STREET
CIRCLE DRIVE
20TH PLACE
28TH STREET
28TH PLACE
27TH PLACE
27TH STREET
26TH STREET
26TH PLACE
CENTER STREET
ADAMS STREET
BOULEVARD
BENTON STREET
CLEVELAND AVENUE
DELMAR AVENUE
ESSEX AVENUE
BRIARWOOD DRIVE
BRIARWOOD LANE
BRIARWOOD CIRCLE
BRIARWOOD DRIVE
BRADLEY AVENUE
PRINCETON PLACE
PRINCETON DR.
COLGATE STREET
FEHLING ROAD
WILSON PARK LANE
WILSON PARK CIRCLE
SAINT PAUL STREET
SAINT JAMES AVENUE
OREGON AVENUE
EAST DRIVE
TROY ST.
STATE STREET
OHIO AVENUE
MADISON AVENUE
IOWA STREET
HOOD AVENUE
OAKLAND AVENUE
BRADEN STREET

Appendix K


KEY TO MAP
500-Year Flood Boundary
100-Year Flood Boundary
Zone Designations* With Date of Identification e.g., 12/2/74
100-Year Flood Boundary
500-Year Flood Boundary
ZONE B
ZONE A1-A7 DATE
ZONE A8 DATE
ZONE B
Base Flood Elevation Line With Elevation In Feet**
513
Base Flood Elevation in Feet Where Uniform Within Zone**
(EL 987)
Elevation Reference Mark
RM7×
River Mile
• M1.5
**Referenced to the National Geodetic Vertical Datum of 1929
*EXPLANATION OF ZONE DESIGNATIONS
ZONE
EXPLANATION
A
Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0
Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH
Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30
Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99
Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B
Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C
Areas of minimal flooding. (No shading)
D
Areas of undetermined, but possible, flood hazards.
V
Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30
Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.
NOTES TO USER
Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.
This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.
For adjoining map panels, see separately printed Index To Map Panels.
INITIAL IDENTIFICATION
NOVEMBER 16, 1973
CONVERSION TO REGULAR PROGRAM
JUNE 1, 1978
To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620, or (800) 424-8872.
APPROXIMATE SCALE
400 0 400 FEET
TABULATION OF ELEVATION REFERENCE MARKS ON PANEL 02
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
CITY OF
GRANITE CITY, ILLINOIS
MADISON COUNTY
COMMUNITY-PANEL NUMBER
170443 0003 A
PAGE 3 OF 5
(SEE MAP INDEX FOR PAGES NOT PRINTED)
EFFECTIVE
JUNE 1, 1978
U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION
CORPORATE LIMITS
ZONE A
ZONE B
ZONE C
ZONE AH
CHICAGO AND EASTERN ILLINOIS RAILROAD
NORTH STREET
MITCHELL AVENUE
WOODLAWN AVENUE
LYNCH AVENUE
WATTERMAN AVENUE
PONTOON AVENUE
AMOS AVENUE
MANLEY AVENUE
RICHMOND AVENUE
GARFIELD AVENUE
COTTAGE AVENUE
LINDELL BOULEVARD
CLARK AVENUE
JOHNSON ROAD
FOHLING ROAD
ROGGER AVENUE
JILL AVENUE
LYNN AVENUE
JOY AVENUE
SAINT CLAIR AVENUE
SMITH STREET
LEONARD AVENUE
WILSON AVENUE
FAITH AVENUE
REMONA DRIVE
MADISON AVENUE
STATE STREET
WASHINGTON AVENUE
FRANKLIN ROAD
WARREN AVENUE
MARION AVENUE
DELMAR AVENUE
NIAGARA AVENUE
MISSISSIPPI AVENUE
WESTMORELAND DR
FRONTENA LANE
WESTCHESTER ROAD
VILLA DRIVE
O'HARA AVENUE
KILARNEY AVENUE
GLEN DRIVE
GLEN PLACE
RIVIERA DRIVE
BERMUDA AVENUE
NASSAU AVENUE
DELRIO AVENUE
SHIVER COURT
VERONICA COURT
JULIA PARK DRIVE
LYNCH AVENUE
BOYLE AVENUE
SPAULDING AVENUE
HARVEY PLACE
BOSTON PLACE
MIDDLESEX CIRCLE
WATERTOWN CIRCLE
NORTH BRIDGE ROAD
SOUTH REVERE
DELTA AVENUE
TERMINAL AVENUE
ORIGINAL AVENUE
ELM AVENUE
BIRCH AVENUE
FOREST AVENUE
OAK AVENUE
MAPLE AVENUE
WALNUT AVENUE
MARSHALL AVENUE
WAYNE AVENUE
FOSTERING DRIVE
ROBERT DRIVE
ESSEX AVENUE
ASH AVENUE
NATIONAL AVENUE
GRAPEVINE AVENUE
MARYVILLE ROAD
ZONE B-1
RM 6
RM7×

Appendix K


KEY TO MAP
500-Year Flood Boundary
100-Year Flood Boundary
Zone Designations* With Date of Identification e.g., 12/2/74
100-Year Flood Boundary
500-Year Flood Boundary
ZONE B
ZONE A1 DATE
ZONE AH DATE
ZONE B
Base Flood Elevation Line With Elevation In Feet**
513
Base Flood Elevation in Feet Where Uniform Within Zone**
(EL 987)
Elevation Reference Mark
RM7
River Mile
M1.5
**Referenced to the National Geodetic Vertical Datum of 1929
*EXPLANATION OF ZONE DESIGNATIONS
ZONE
EXPLANATION
A
Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
AO
Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
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Areas of 100-year flood; base flood elevations and flood hazard factors determined.
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Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
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NOVEMBER 16, 1973
CONVERSION TO REGULAR PROGRAM
JUNE 1, 1978
TABULATION OF ELEVATION REFERENCE MARKS ON PANEL 02
To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620, or (800) 424-8872.
APPROXIMATE SCALE
400 0 400 FEET
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
CITY OF
GRANITE CITY, ILLINOIS
MADISON COUNTY
COMMUNITY-PANEL NUMBER
170443 0004 A
PAGE 4 OF 5
(SEE MAP INDEX FOR PAGES NOT PRINTED)
EFFECTIVE
JUNE 1, 1978
U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

Appendix K



TABULATION OF ELEVATION REFERENCE MARKS ON PANEL 02

KEY TO MAP

500 Year Flood Boundary
100 Year Flood Boundary
Zone Designations* With Date of Identification e.g., 12/2/74
100-Year Flood Boundary
500-Year Flood Boundary

ZONE B
ZONE A1 DATE
ZONE A2 DATE
ZONE B

Base Flood Elevation Line With Elevation In Feet** — 513
Base Flood Elevation in Feet Where Uniform Within Zone** — (EL 987)
Elevation Reference Mark — RM7×
River Mile — •M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
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JUNE 1, 1978

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APPROXIMATE SCALE
400 0 400 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FLOOD INSURANCE RATE MAP

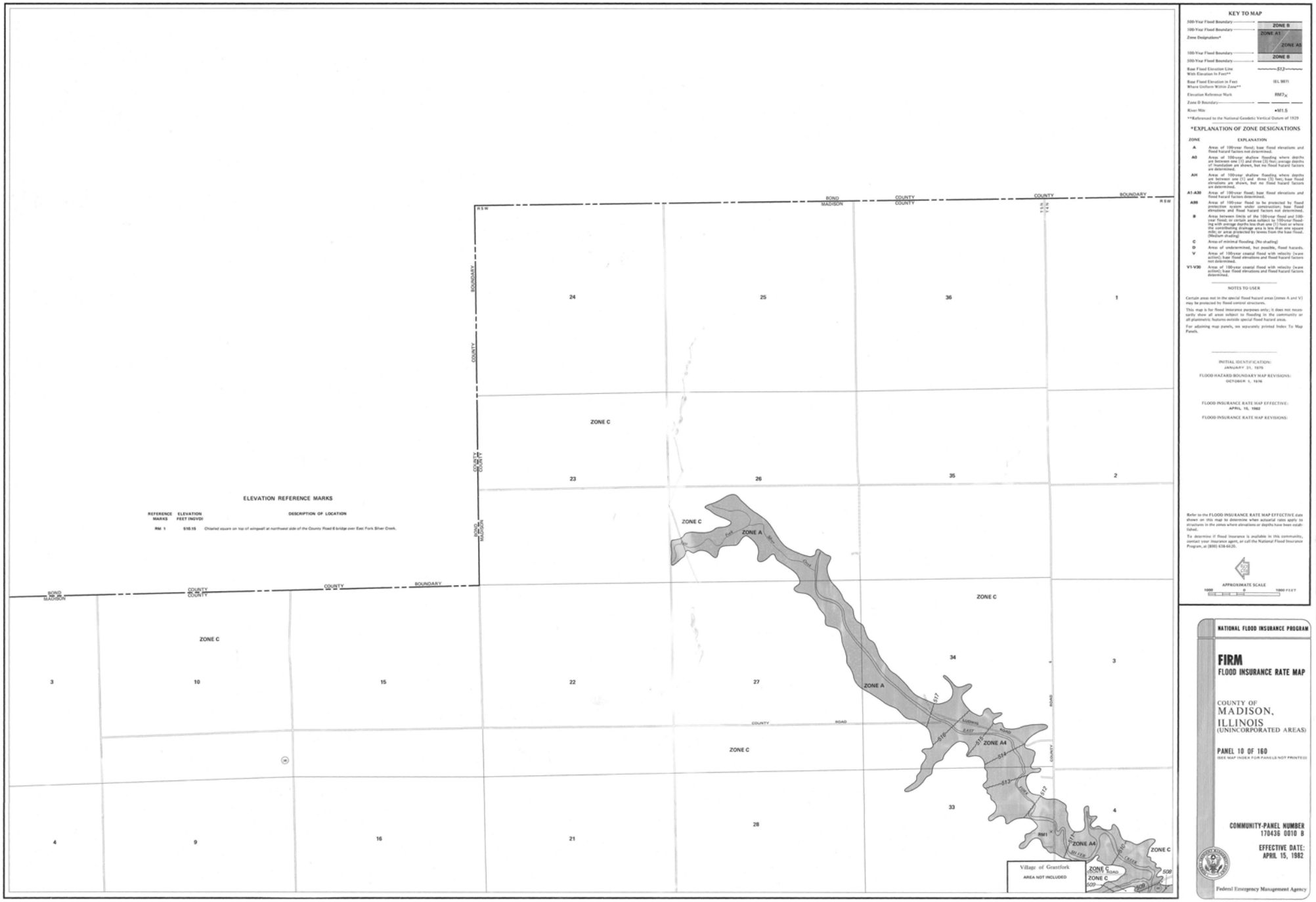
CITY OF
GRANITE CITY, ILLINOIS
MADISON COUNTY

COMMUNITY-PANEL NUMBER
170443 0005 A

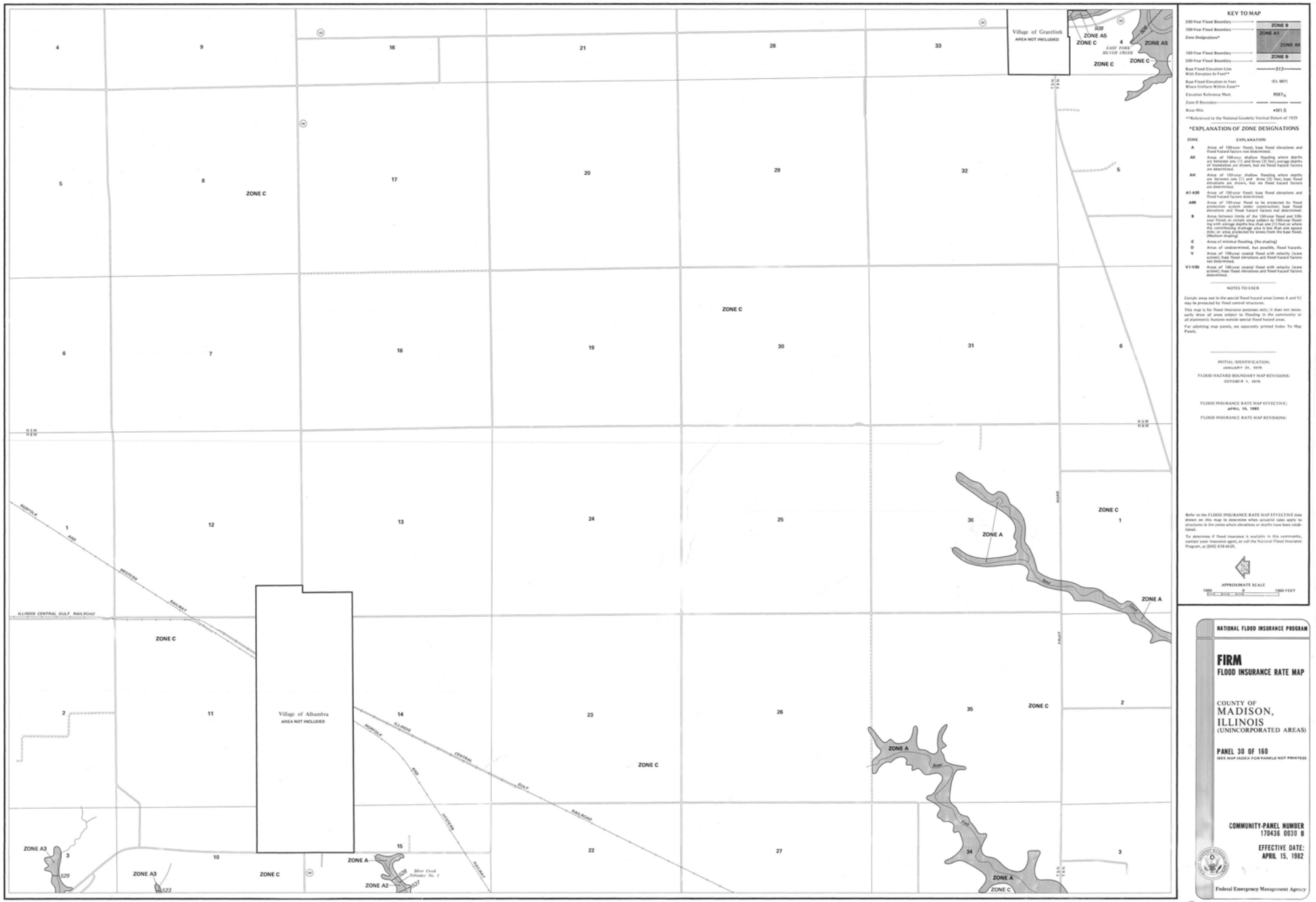
PAGE 5 OF 5
(SEE MAP INDEX FOR PAGES NOT PRINTED)

EFFECTIVE
JUNE 1, 1978

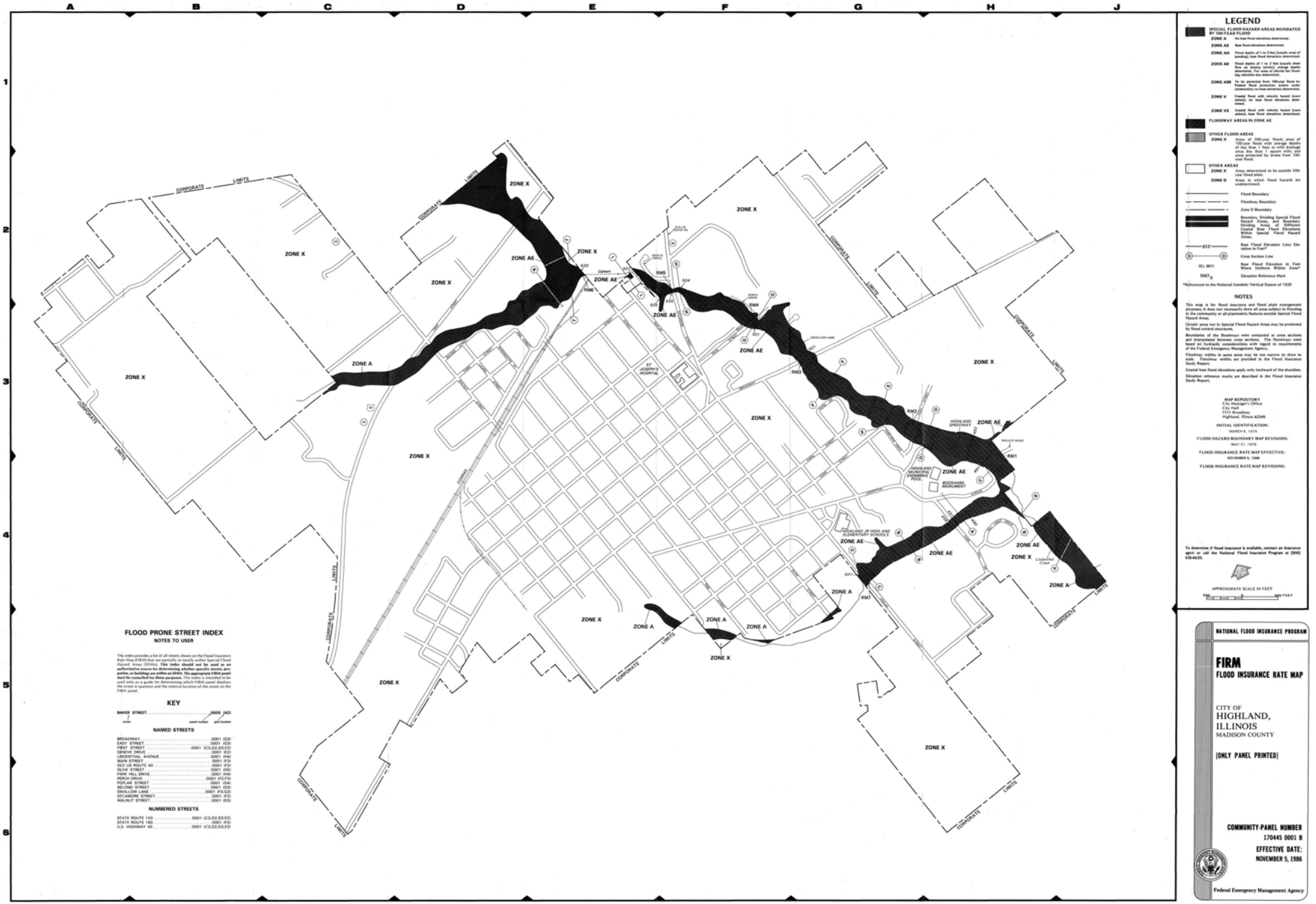
U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION


KEY TO MAP
500-Year Flood Boundary
100-Year Flood Boundary
Zone Designations*
ZONE B
ZONE A1
ZONE A5
ZONE B
100-Year Flood Boundary
500-Year Flood Boundary
Base Flood Elevation Line With Elevation In Feet**
513
Base Flood Elevation in Feet Where Uniform Within Zone**
(EL 987)
Elevation Reference Mark
RM7X
Zone D Boundary
River Mile
M1.5
**Referred to the National Geodetic Vertical Datum of 1929
*EXPLANATION OF ZONE DESIGNATIONS
ZONE
EXPLANATION
A
Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
AO
Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH
Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30
Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99
Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B
Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C
Areas of minimal flooding. (No shading)
D
Areas of undetermined, but possible, flood hazards.
V
Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30
Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.
NOTES TO USER
Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.
This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.
For adjoining map panels, see separately printed Index To Map Panels.
INITIAL IDENTIFICATION:
JANUARY 31, 1975
FLOOD HAZARD BOUNDARY MAP REVISIONS:
OCTOBER 1, 1976
FLOOD INSURANCE RATE MAP EFFECTIVE:
APRIL 15, 1982
FLOOD INSURANCE RATE MAP REVISIONS:
Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.
To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620.
APPROXIMATE SCALE
1000 0 1000 FEET
ELEVATION REFERENCE MARKS
REFERENCE MARKS
ELEVATION FEET (NGVD)
DESCRIPTION OF LOCATION
RM 1
510.15
Chiseled square on top of wingwall at northwest side of the County Road 6 bridge over East Fork Silver Creek.
ZONE C
ZONE A
ZONE A4
ZONE A5
ZONE B
BOND
MADISON
COUNTY
BOUNDARY
R 5 W
24
25
36
1
23
26
35
2
3
10
15
22
27
34
4
9
16
21
28
33
EAST FORK SILVER CREEK
COUNTY ROAD
Village of Granfork
AREA NOT INCLUDED
NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP
COUNTY OF
MADISON,
ILLINOIS
(UNINCORPORATED AREAS)
PANEL 10 OF 160
(SEE MAP INDEX FOR PANELS NOT PRINTED)
COMMUNITY-PANEL NUMBER
170436 0010 B
EFFECTIVE DATE:
APRIL 15, 1982
Federal Emergency Management Agency

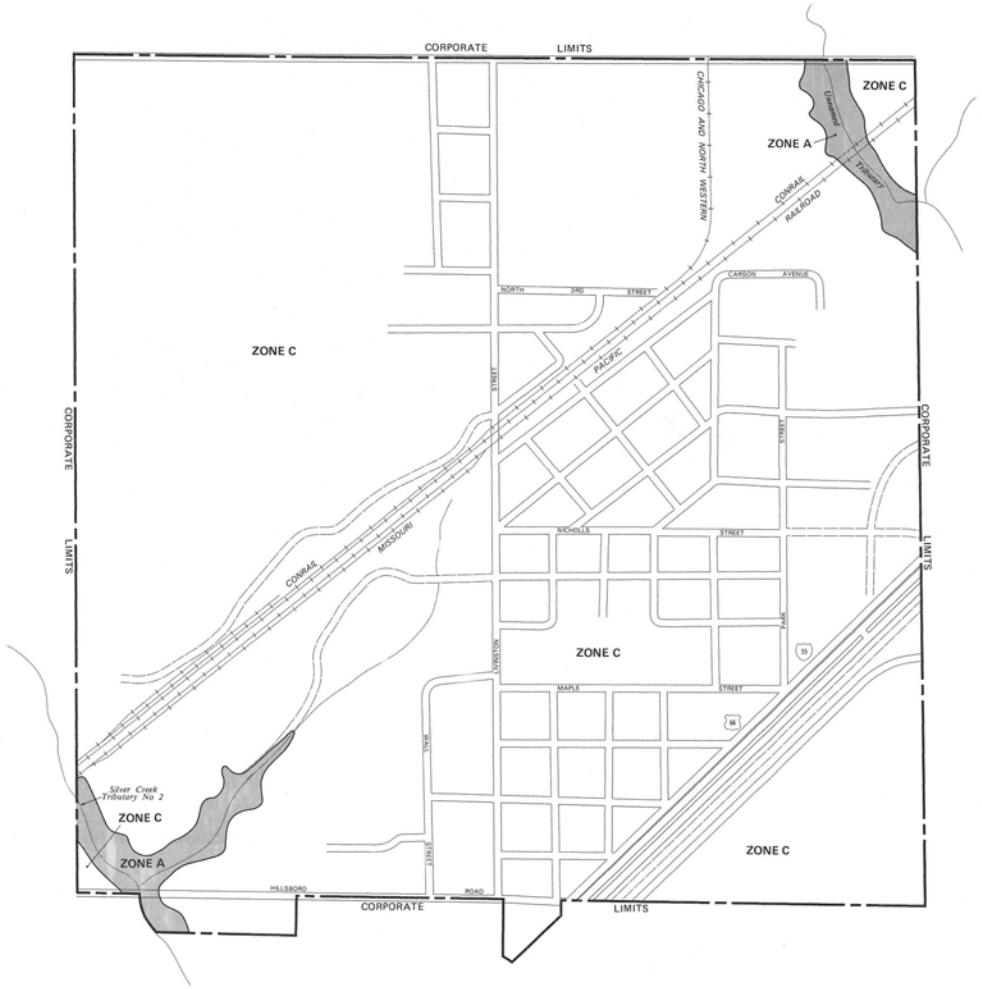
Appendix K


KEY TO MAP
500-Year Flood Boundary
100-Year Flood Boundary
Zone Designations*
ZONE B
ZONE A1
ZONE A6
ZONE B
100-Year Flood Boundary
500-Year Flood Boundary
Base Flood Elevation Line With Elevation In Feet**
513
Base Flood Elevation in Feet Where Uniform Within Zone**
(EL 987)
Elevation Reference Mark
RM7x
Zone D Boundary
River Mile
•M1.5
**Referenced to the National Geodetic Vertical Datum of 1929
*EXPLANATION OF ZONE DESIGNATIONS
ZONE
EXPLANATION
A
Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
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Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH
Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30
Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99
Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B
Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C
Areas of minimal flooding. (No shading)
D
Areas of undetermined, but possible, flood hazards.
V
Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30
Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.
NOTES TO USER
Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.
This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.
For adjoining map panels, see separately printed Index To Map Panels.
INITIAL IDENTIFICATION:
JANUARY 31, 1975
FLOOD HAZARD BOUNDARY MAP REVISIONS:
OCTOBER 1, 1976
FLOOD INSURANCE RATE MAP EFFECTIVE:
APRIL 15, 1982
FLOOD INSURANCE RATE MAP REVISIONS:
Refer to the FLOOD INSURANCE RATE MAP EFFECTIVE date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.
To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620.
APPROXIMATE SCALE
1000 0 1000 FEET
NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP
COUNTY OF
MADISON,
ILLINOIS
(UNINCORPORATED AREAS)
PANEL 30 OF 160
SEE MAP INDEX FOR PANELS NOT PRINTED
COMMUNITY-PANEL NUMBER
170436 0030 B
EFFECTIVE DATE:
APRIL 15, 1982
Federal Emergency Management Agency
Village of Grantfork
AREA NOT INCLUDED
Village of Alhambra
AREA NOT INCLUDED
ZONE A
ZONE A1
ZONE A2
ZONE A3
ZONE A5
ZONE C
EAST FORK SILVER CREEK
ILLINOIS CENTRAL GULF RAILROAD
NORFOLK AND WESTERN RAILWAY
Silver Creek Tributary No. 1
R 5 W
R 4 W
T 5 N
T 4 N
ROAD
TROUT

Appendix K


LEGEND
SPECIAL FLOOD HAZARD AREAS INUNDATED BY 100-YEAR FLOOD
ZONE A No base flood elevations determined.
ZONE AE Base flood elevations determined.
ZONE AH Flood depths of 1 to 3 feet (usually areas of ponding); base flood elevations determined.
ZONE AO Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
ZONE A99 To be protected from 100-year flood by Federal flood protection system under construction; no base elevations determined.
ZONE V Coastal flood with velocity hazard (wave action); no base flood elevations determined.
ZONE VE Coastal flood with velocity hazard (wave action); base flood elevations determined.
FLOODWAY AREAS IN ZONE AE
OTHER FLOOD AREAS
ZONE X Areas of 500-year flood; areas of 100-year flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 100-year flood.
OTHER AREAS
ZONE X Areas determined to be outside 500-year flood plain.
ZONE D Areas in which flood hazards are undetermined.
Flood Boundary
Floodway Boundary
Zone D Boundary
Boundary Dividing Special Flood Hazard Zones, and Boundary Dividing Areas of Different Base Flood Elevations Within Special Flood Hazard Zones.
513 Base Flood Elevation Line; Elevation in Feet*
Cross Section Line
(EL 987) Base Flood Elevation in Feet Where Uniform Within Zone*
RM7 Elevation Reference Mark
*Referenced to the National Geodetic Vertical Datum of 1929
NOTES
This map is for flood insurance and flood plain management purposes; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside Special Flood Hazard Areas.
Certain areas not in Special Flood Hazard Areas may be protected by flood control structures.
Boundaries of the floodways were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the Federal Emergency Management Agency.
Floodway widths in some areas may be too narrow to show to scale. Floodway widths are provided in the Flood Insurance Study Report.
Coastal base flood elevations apply only landward of the shoreline.
Elevation reference marks are described in the Flood Insurance Study Report.
MAP REPOSITORY
City Manager's Office
City Hall
1115 Broadway
Highland, Illinois 62249
INITIAL IDENTIFICATION:
MARCH 8, 1974
FLOOD HAZARD BOUNDARY MAP REVISIONS:
MAY 21, 1976
FLOOD INSURANCE RATE MAP EFFECTIVE:
NOVEMBER 5, 1986
FLOOD INSURANCE RATE MAP REVISIONS:
To determine if flood insurance is available, contact an insurance agent or call the National Flood Insurance Program at (800) 638-6620.
APPROXIMATE SCALE IN FEET
500 0 500 1000 FEET
FLOOD PRONE STREET INDEX
NOTES TO USER
This index provides a list of all streets shown on the Flood Insurance Rate Map (FIRM) that are partially or totally within Special Flood Hazard Areas (SFHAs). This index should not be used as an authoritative source for determining whether specific streets, properties, or buildings are within an SFHA. The appropriate FIRM panel must be consulted for these purposes. This index is intended to be used only as a guide for determining which FIRM panel displays the street in question and the relative location of the street on the FIRM panel.
KEY
BAKER STREET 0005 (A2)
street — panel number — grid location
NAMED STREETS
BROADWAY 0001 (G3)
EASY STREET 0001 (G3)
FIRST STREET 0001 (C3,D2,D3,E2)
GENEVE DRIVE 0001 (E2)
LIBOENTHAL AVENUE 0001 (H4)
MAIN STREET 0001 (F3)
OLD US ROUTE 40 ..... 0001 (F2)
OLIVE STREET 0001 (G5)
PARK HILL DRIVE 0001 (H4)
PERCH DRIVE 0001 (F2,F3)
POPLAR STREET 0001 (G4)
SECOND STREET 0001 (D3)
SWALLOW LANE 0001 (F3,G3)
SYCAMORE STREET 0001 (F2)
WALNUT STREET 0001 (D3)
NUMBERED STREETS
STATE ROUTE 143 ..... 0001 (C3,D2,D3,E2)
STATE ROUTE 160 ..... 0001 (F2)
U.S. HIGHWAY 40 ..... 0001 (C3,D2,D3,E2)
NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP
CITY OF
HIGHLAND,
ILLINOIS
MADISON COUNTY
(ONLY PANEL PRINTED)
COMMUNITY-PANEL NUMBER
170445 0001 B
EFFECTIVE DATE:
NOVEMBER 5, 1986
Federal Emergency Management Agency
ZONE X
ZONE A
ZONE AE
CORPORATE LIMITS
ST JOSEPH'S HOSPITAL
HIGHLAND MUNICIPAL SWIMMING POOL
BOEHARD MONUMENT
HIGHLAND JR HIGH AND ELEMENTARY SCHOOLS
ARCHS AND SPEEDWAY
PRIVATE ROAD
SWALLOW LANE
PERCH FENCE
OLD US ROUTE 40
Lindenthal Creek
Culvert
RM1
RM2
RM3
RM4
RM5
RM7

Appendix K



KEY TO MAP

500-Year Flood Boundary	
100-Year Flood Boundary	ZONE B
Zone Designations*	ZONE A1 / ZONE A5
100-Year Flood Boundary	ZONE B
500-Year Flood Boundary	
Base Flood Elevation Line With Elevation In Feet**	513
Base Flood Elevation in Feet Where Uniform Within Zone**	(EL 987)
Elevation Reference Mark	RM7x
Zone D Boundary	
River Mile	•M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
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C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

INITIAL IDENTIFICATION:
MARCH 22, 1974
FLOOD HAZARD BOUNDARY MAP REVISIONS:
JUNE 11, 1976

FLOOD INSURANCE RATE MAP EFFECTIVE:
FEBRUARY 27, 1984
FLOOD INSURANCE RATE MAP REVISIONS:

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620.

APPROXIMATE SCALE
500 0 500 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

VILLAGE OF
LIVINGSTON,
ILLINOIS
MADISON COUNTY

(ONLY PANEL PRINTED)

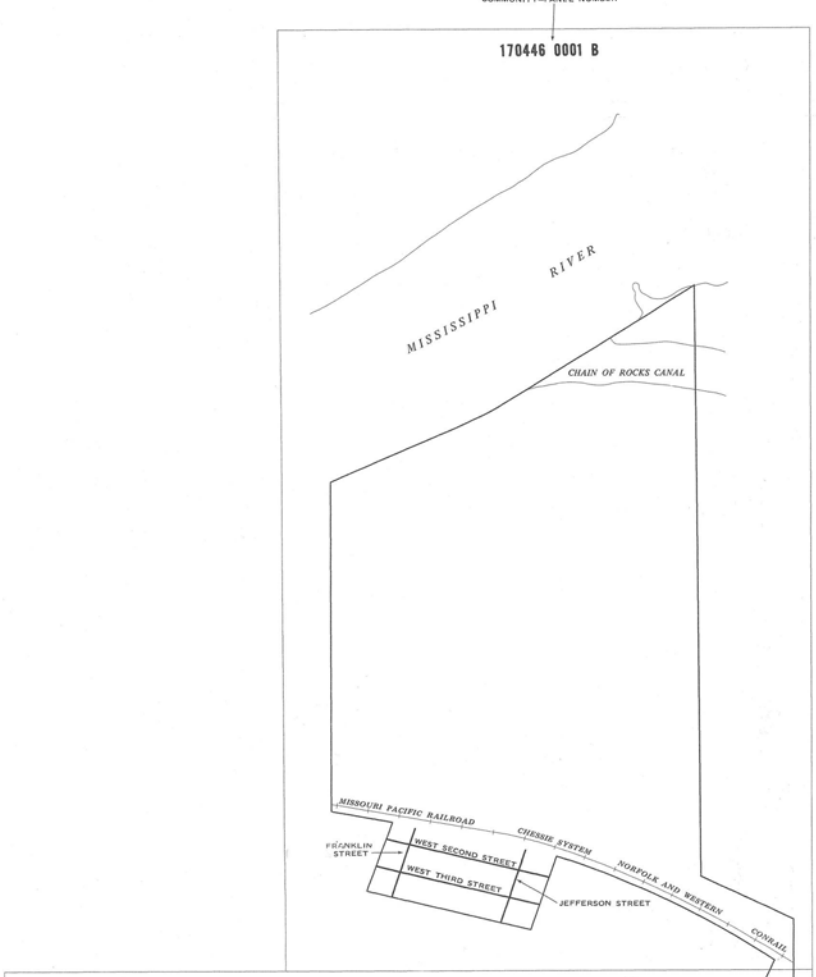
COMMUNITY-PANEL NUMBER
170794 0001 B

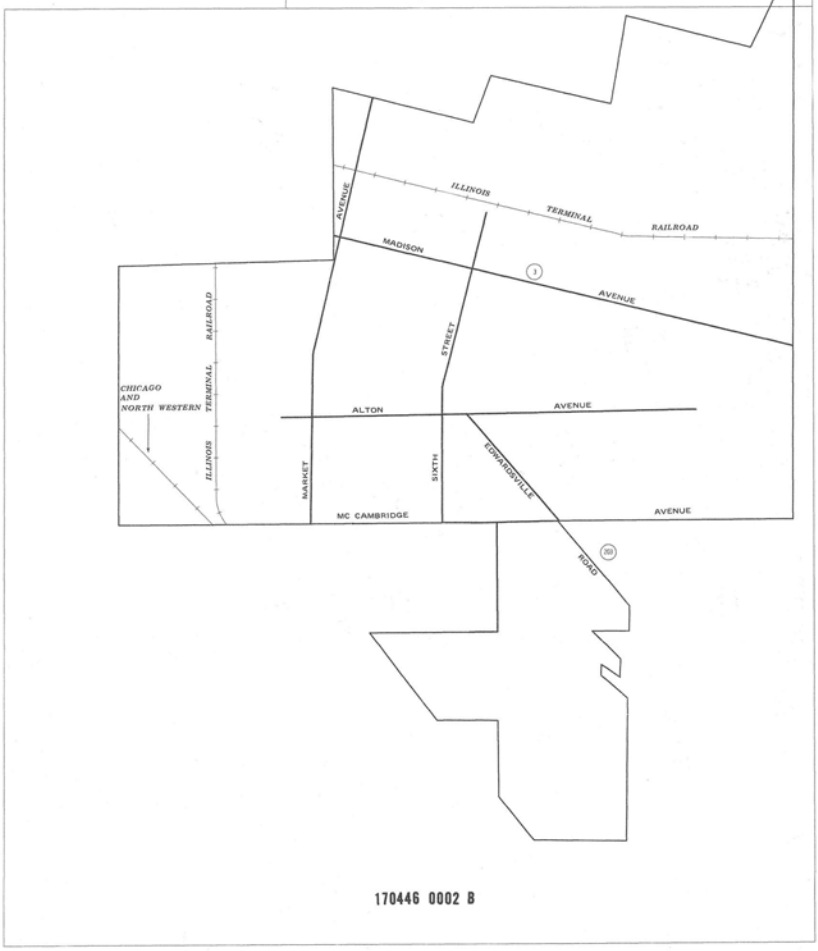
EFFECTIVE DATE:
FEBRUARY 27, 1984

Federal Emergency Management Agency

COMMUNITY–PANEL NUMBER

170446 0001 B





170446 0002 B

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

CITY OF
MADISON,
ILLINOIS
MADISON COUNTY

MAP INDEX
PANELS PRINTED: 1, 2

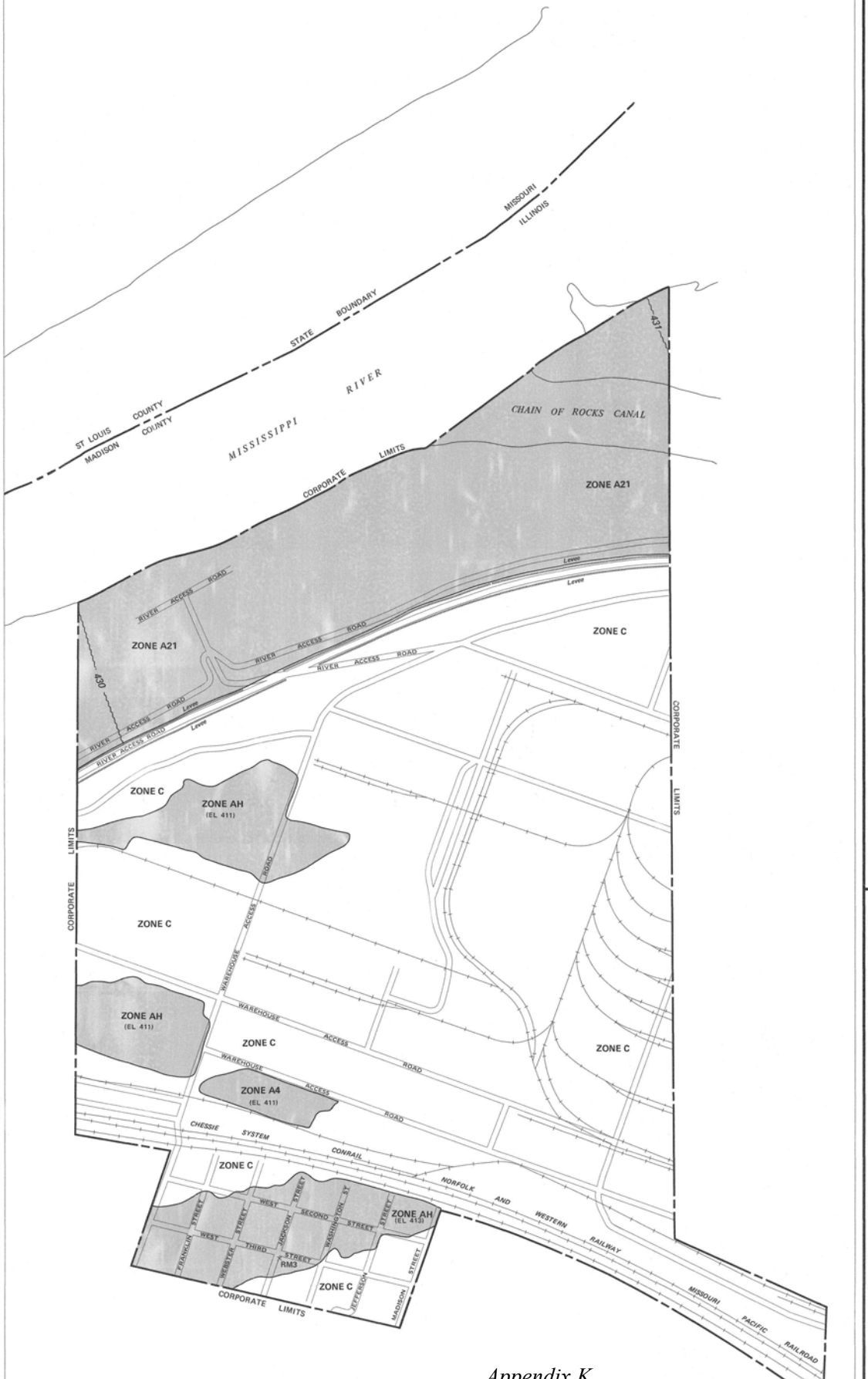
COMMUNITY-PANEL NUMBERS
170446 0001-0002

EFFECTIVE DATE:
JULY 16, 1980

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

ELEVATION REFERENCE MARKS

REFERENCE MARKS	ELEVATION FEET (NGVD)	DESCRIPTION OF LOCATION
RM 3	411.92	Chiseled cross on southwest bolthead near top of fire hydrant located at northeast corner of intersection of Jackson Street and West 3rd Street.



KEY TO MAP

500-Year Flood Boundary
100-Year Flood Boundary
Zone Designations* With Date of Identification e.g., 12/2/74
100-Year Flood Boundary
500-Year Flood Boundary

ZONE B
ZONE A1 DATE / ZONE A5 DATE
ZONE B

Base Flood Elevation Line With Elevation In Feet** — 513

Base Flood Elevation in Feet Where Uniform Within Zone** — (EL 987)

Elevation Reference Mark — RM7 ×

River Mile — • M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
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A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
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V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
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NOTES TO USER

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This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:
NOVEMBER 23, 1973

FLOOD HAZARD BOUNDARY MAP REVISIONS:
AUGUST 27, 1976

FLOOD INSURANCE RATE MAP EFFECTIVE:
JULY 16, 1980

FLOOD INSURANCE RATE MAP REVISIONS:

Refer to the CONVERSION TO REGULAR PROGRAM date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

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APPROXIMATE SCALE
400 0 400 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

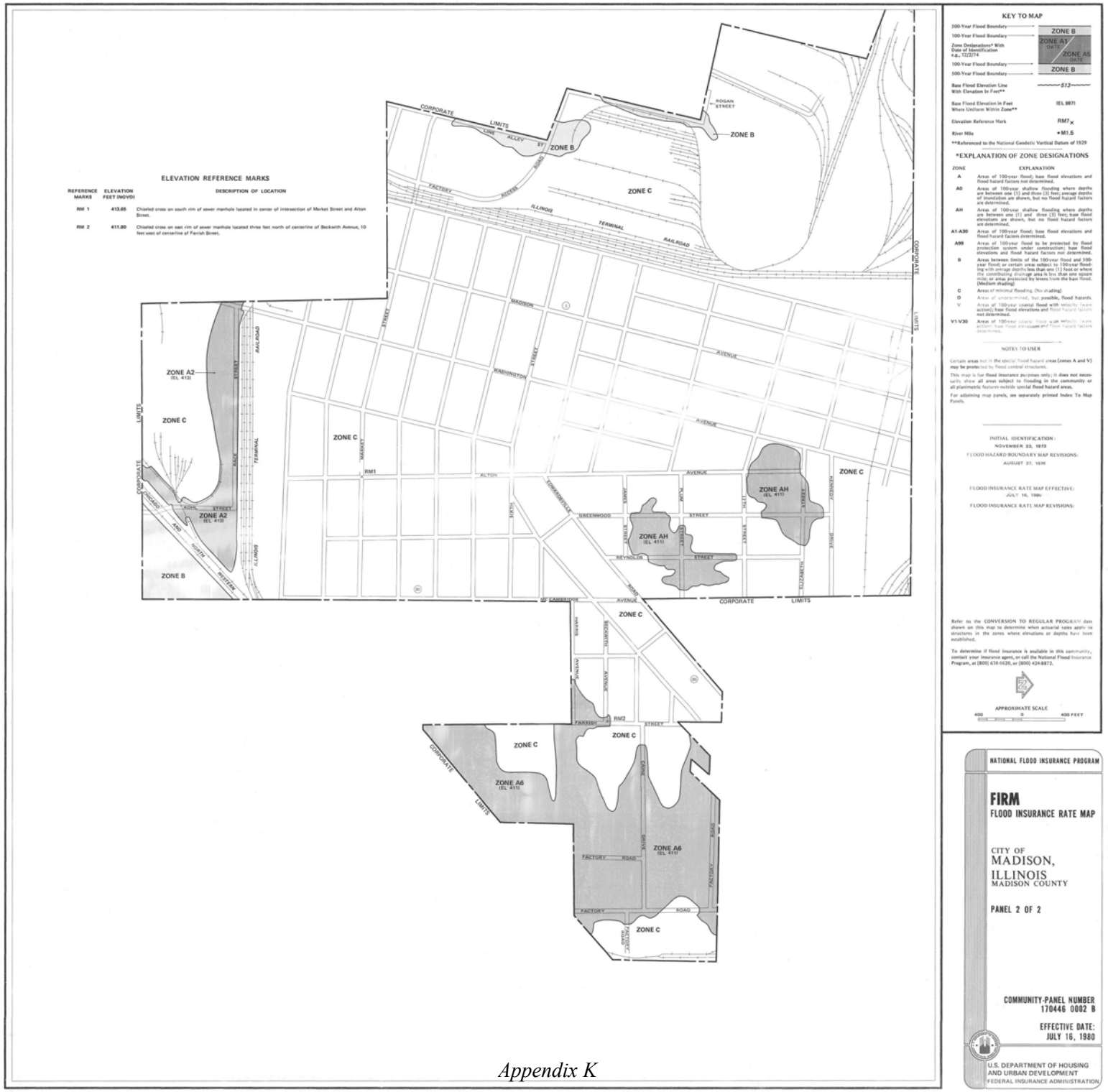
CITY OF
MADISON,
ILLINOIS
MADISON COUNTY

PANEL 1 OF 2

COMMUNITY-PANEL NUMBER
170446 0001 B

EFFECTIVE DATE:
JULY 16, 1980

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION



KEY TO MAP

500-Year Flood Boundary
100-Year Flood Boundary
Zone Designations* With Date of Identification e.g., 12/2/74
100-Year Flood Boundary
500-Year Flood Boundary
ZONE B
ZONE A1 DATE
ZONE A6 DATE
ZONE B

Base Flood Elevation Line With Elevation In Feet** — 513

Base Flood Elevation In Feet Where Uniform Within Zone** — (EL 987)

Elevation Reference Mark — RM7×

River Mile — •M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

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INITIAL IDENTIFICATION:
NOVEMBER 23, 1973
FLOOD HAZARD BOUNDARY MAP REVISIONS:
AUGUST 27, 1976

FLOOD INSURANCE RATE MAP EFFECTIVE:
JULY 16, 1980
FLOOD INSURANCE RATE MAP REVISIONS:

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APPROXIMATE SCALE
400 0 400 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

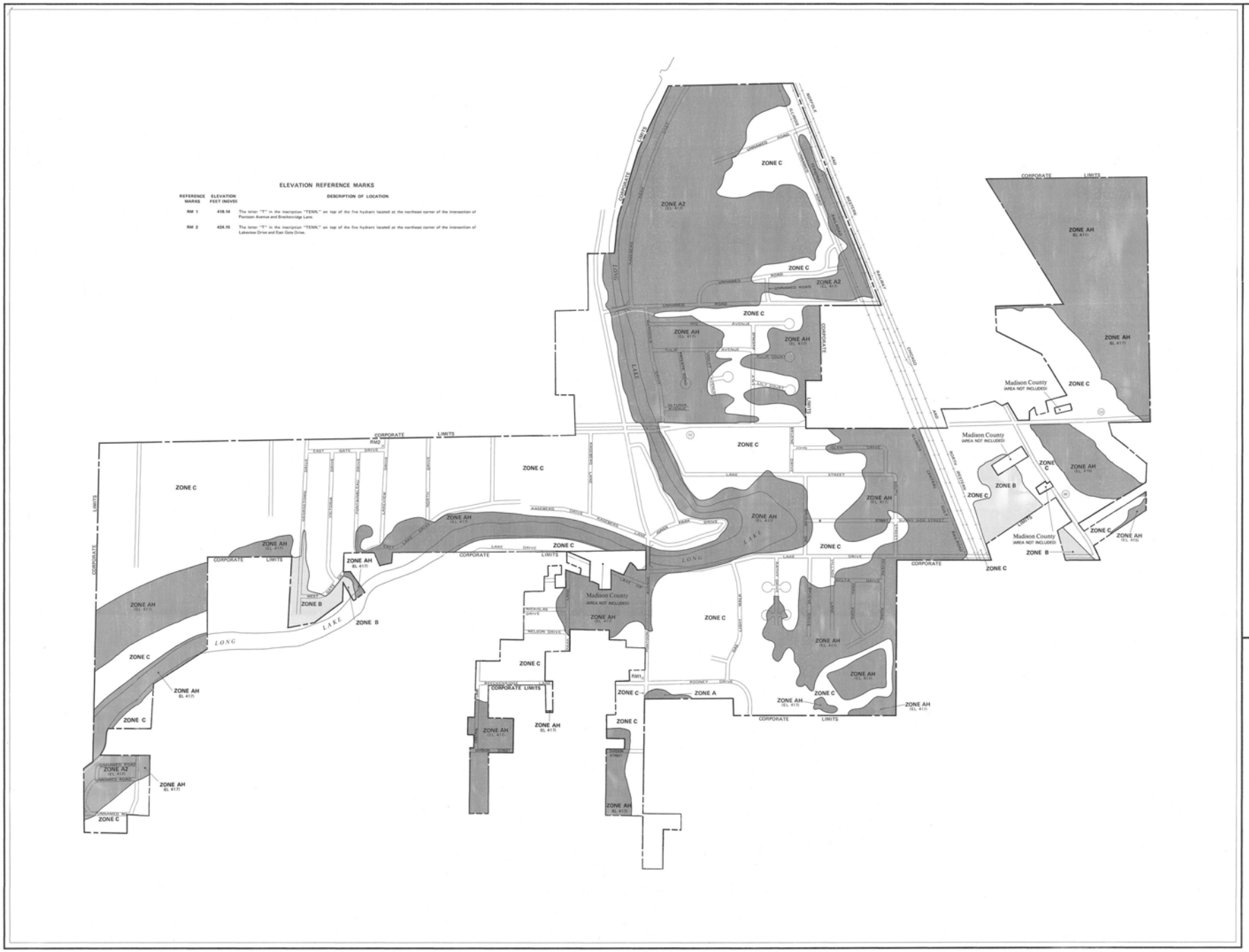
CITY OF
MADISON,
ILLINOIS
MADISON COUNTY

PANEL 2 OF 2

COMMUNITY-PANEL NUMBER
170446 0002 B

EFFECTIVE DATE:
JULY 16, 1980

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION



KEY TO MAP

500-Year Flood Boundary
100-Year Flood Boundary
Zone Designations* With Date of Identification e.g., 12/2/74
100-Year Flood Boundary
500-Year Flood Boundary
ZONE B
ZONE A1 DATE
ZONE A6 DATE
ZONE B
Base Flood Elevation Line With Elevation In Feet**
513
Base Flood Elevation in Feet Where Uniform Within Zone**
(EL 987)
Elevation Reference Mark
RM7×
River Mile
• M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

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Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:
NOVEMBER 22, 1974
FLOOD HAZARD BOUNDARY MAP REVISIONS:

FLOOD INSURANCE RATE MAP EFFECTIVE:
JULY 16, 1980
FLOOD INSURANCE RATE MAP REVISIONS:

Map revised February 5, 1982 to reflect an addition and reduction of Zone A, Zone B, changes in base flood elevations, corporate limits, addition of streets and street names and to reflect FIRM title block.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program at (800) 638-6620.

APPROXIMATE SCALE
400 0 400 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

VILLAGE OF
PONTOON BEACH,
ILLINOIS
MADISON COUNTY

ONLY PANEL PRINTED

COMMUNITY-PANEL NUMBER
170447 0001 B
MAP REVISED:
FEBRUARY 5, 1982

federal emergency management agency
federal insurance administration

Appendix K



ELEVATION REFERENCE MARKS

REFERENCE MARK	ELEVATION FEET (NGVD)	DESCRIPTION OF LOCATION
RM1	426.11	Top of east end of iron culvert on southeast side of Old Edwardsville Road at entrance to Shell Oil Company.
RM2	428.77	Chiseled box on top of curb at southeast corner of intersection of Old Edwardsville Road and Thomas Street.

KEY TO MAP

500-Year Flood Boundary
100-Year Flood Boundary
Zone Designations* With Date of Identification e.g., 12/2/74
100-Year Flood Boundary
500-Year Flood Boundary

ZONE B
ZONE A1 DATE / ZONE A5 DATE
ZONE B

Base Flood Elevation Line With Elevation In Feet** — 513

Base Flood Elevation in Feet Where Uniform Within Zone** (EL 987)

Elevation Reference Mark RM7×

River Mile •M1.5

**Referenced to the National Geodetic Vertical Datum of 1929

*EXPLANATION OF ZONE DESIGNATIONS

ZONE	EXPLANATION
A	Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH	Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30	Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99	Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B	Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C	Areas of minimal flooding. (No shading)
D	Areas of undetermined, but possible, flood hazards.
V	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30	Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.

NOTES TO USER

Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.

This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.

For adjoining map panels, see separately printed Index To Map Panels.

INITIAL IDENTIFICATION:
MAY 1, 1979

FLOOD HAZARD BOUNDARY MAP REVISIONS:

FLOOD INSURANCE RATE MAP EFFECTIVE:
MAY 1, 1979

FLOOD INSURANCE RATE MAP REVISIONS:

Refer to the CONVERSION TO REGULAR PROGRAM date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.

To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620, or (800) 424-8872.

N

APPROXIMATE SCALE
1000 0 1000 FEET

NATIONAL FLOOD INSURANCE PROGRAM

FIRM
FLOOD INSURANCE RATE MAP

VILLAGE OF
ROXANA,
ILLINOIS
MADISON COUNTY

(ONLY PANEL PRINTED)

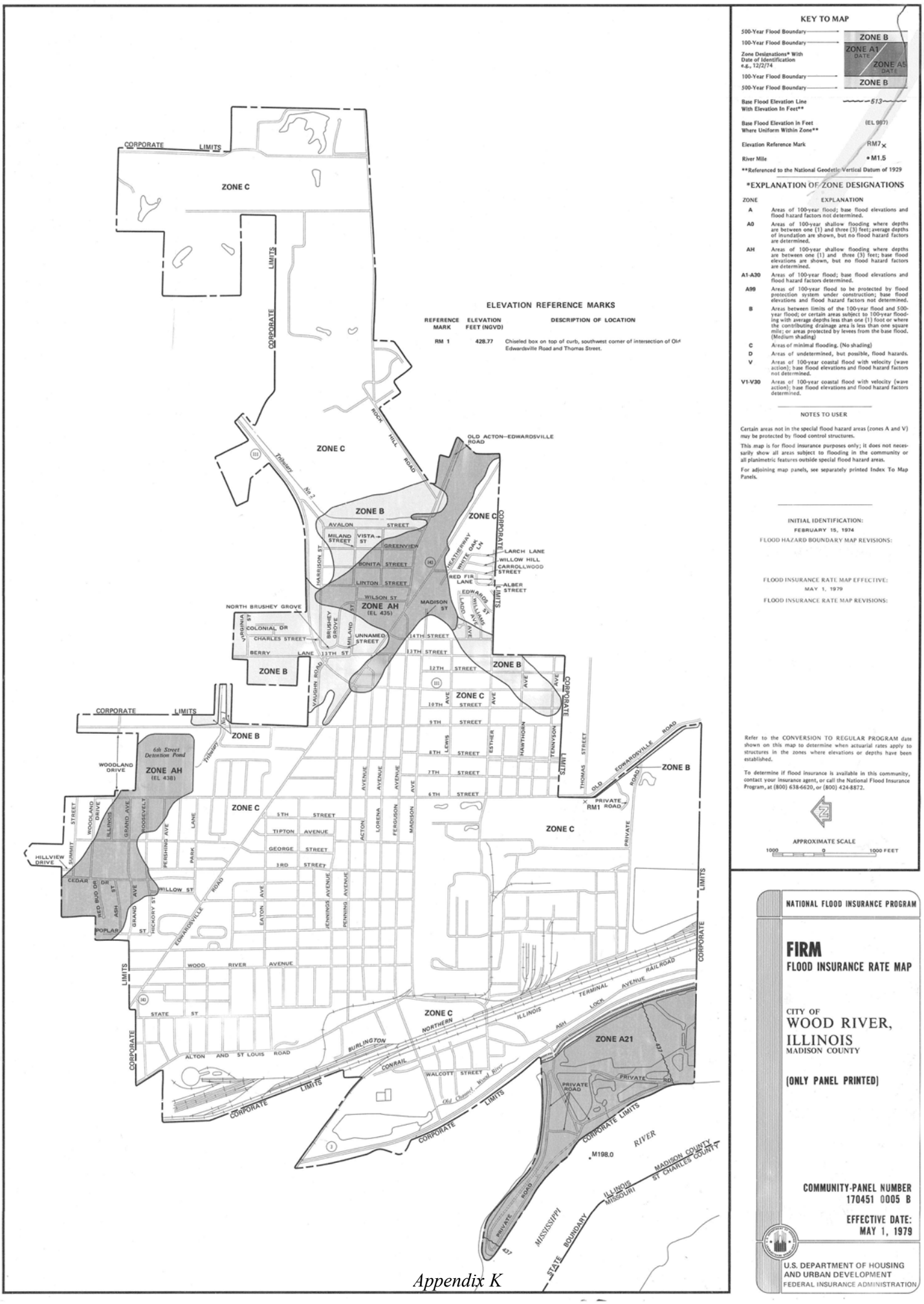
COMMUNITY-PANEL NUMBER
170448 0005 A

EFFECTIVE DATE:
MAY 1, 1979

U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION


MISSISSIPPI RIVER
ZONE A21
ZONE C
ZONE A
ZONE A0
ZONE B
LEVEE
CORPORATE LIMITS
NORFOLK AND WESTERN RAILROAD
CONRAIL
TERMINAL RAILROAD ASSOCIATION OF ST. LOUIS
MAIN STREET
SECOND STREET
THIRD STREET
FOURTH STREET
KLEIN AVENUE
WEAVER AVENUE
MERIDOCIA AVENUE
ELEVATION REFERENCE MARKS
REFERENCE MARK
ELEVATION IN FT. (NGVD)
DESCRIPTION OF LOCATION
RM 1 435.30 A chiseled square on northeast corner of gate valve structure, about 75 feet north of where Bremen Street crosses levee, and 40 feet riverside of the levee.
RM 2 410.49 A chiseled square, painted yellow, on northeast corner of catch basin located on south side of Hampden Street and west side of Second Street, and approximately 25 feet from center of intersection.
RM 3 410.38 A chiseled square, painted yellow, on top of concrete curb on northwest corner of intersection of Kerr and Fourth Streets.
RM 4 409.19 A chiseled square, painted yellow, on southeast corner of catch basin on northwest side of intersection of Lincoln Avenue and Fourth Street.
RM 5 410.43 A chiseled square on northeast corner of catch basin located on southeast corner of intersection of Brown and Klein Avenues.
RM 6 412.81 Top of rod in center of 6-inch concrete post, 6 inches north of white fence post located at southeast corner of intersection of Weaver Avenue and Market Street; also is 2 feet east of street sign
RM 7 414.87 A chiseled square on southeast corner of concrete cover manhole catch basin, on southwest corner of intersection of Meridocia Avenue and College Street.
National Geodetic Vertical Datum of 1929.
KEY TO MAP
500 Year Flood Boundary
100 Year Flood Boundary
Zone Designations* With Date of Identification e.g., 12/3/74
100 Year Flood Boundary
500 Year Flood Boundary
ZONE B
ZONE A1 DATE
ZONE A5 DATE
ZONE 6
Base Flood Elevation Line With Elevation in Feet
513
Base Flood Elevation Where Uniform Within Zone
(EL 987)** NGVD)**
Elevation Reference Mark
RM1
River Mile
M1.5
**National Geodetic Vertical Datum of 1929
*EXPLANATION OF ZONE DESIGNATIONS
ZONE EXPLANATION
A Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
AO Areas of 100-year shallow flooding with flood depth 1 to 3 feet; product of flood depth (feet) and velocity (feet per second) less than 15.
A1–A30 Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99 Areas of 100-year flood to be protected by a flood protection system under construction; base flood elevations and flood hazard factors not determined.
B Area between limits of 100-year flood and 500-year flood; areas of 100-year shallow flooding where depths are less than 1 foot (Medium shading).
C Areas outside 500-year flood (No shading).
D Areas of undetermined, but possible, flood hazards.
V Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
VO Areas of 100-year shallow flooding with velocity; flood depth 1 to 3 feet; product of depth (feet) and velocity (feet per second) more than 15.
V1–V30 Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.
NOTE: Certain areas not in the Special Flood Hazard Areas (Zones A and V) may be protected by flood control structures.
This map is for insurance purposes only and may not show all planimetric information outside of Special Flood Hazard Areas.
For adjoining map panels, see separately printed Index To Map Panels.
INITIAL IDENTIFICATION
FEBRUARY 15, 1974
CONVERSION TO REGULAR PROGRAM
JANUARY 5, 1978
Consult NFIA servicing company or local insurance agent or broker to determine if properties in this community are eligible for flood insurance.
APPROXIMATE SCALE
400 0 400 FEET
NATIONAL FLOOD INSURANCE PROGRAM
FLOOD INSURANCE RATE MAP
CITY OF VENICE, ILLINOIS
MADISON COUNTY
COMMUNITY-PANEL NUMBER
170450-0001B
PAGE 1 OF 1
EFFECTIVE
JANUARY 5, 1978
U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

Appendix K


KEY TO MAP
500-Year Flood Boundary
100-Year Flood Boundary
Zone Designations* With Date of Identification e.g., 12/2/74
100-Year Flood Boundary
500-Year Flood Boundary
ZONE B
ZONE A1
DATE
ZONE A5
DATE
ZONE B
Base Flood Elevation Line With Elevation In Feet**
513
Base Flood Elevation in Feet Where Uniform Within Zone**
(EL 987)
Elevation Reference Mark
RM7
River Mile
M1.5
**Referenced to the National Geodetic Vertical Datum of 1929
*EXPLANATION OF ZONE DESIGNATIONS
ZONE
EXPLANATION
A
Areas of 100-year flood; base flood elevations and flood hazard factors not determined.
A0
Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; average depths of inundation are shown, but no flood hazard factors are determined.
AH
Areas of 100-year shallow flooding where depths are between one (1) and three (3) feet; base flood elevations are shown, but no flood hazard factors are determined.
A1-A30
Areas of 100-year flood; base flood elevations and flood hazard factors determined.
A99
Areas of 100-year flood to be protected by flood protection system under construction; base flood elevations and flood hazard factors not determined.
B
Areas between limits of the 100-year flood and 500-year flood; or certain areas subject to 100-year flooding with average depths less than one (1) foot or where the contributing drainage area is less than one square mile; or areas protected by levees from the base flood. (Medium shading)
C
Areas of minimal flooding. (No shading)
D
Areas of undetermined, but possible, flood hazards.
V
Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors not determined.
V1-V30
Areas of 100-year coastal flood with velocity (wave action); base flood elevations and flood hazard factors determined.
NOTES TO USER
Certain areas not in the special flood hazard areas (zones A and V) may be protected by flood control structures.
This map is for flood insurance purposes only; it does not necessarily show all areas subject to flooding in the community or all planimetric features outside special flood hazard areas.
For adjoining map panels, see separately printed Index To Map Panels.
INITIAL IDENTIFICATION:
FEBRUARY 15, 1974
FLOOD HAZARD BOUNDARY MAP REVISIONS:
FLOOD INSURANCE RATE MAP EFFECTIVE:
MAY 1, 1979
FLOOD INSURANCE RATE MAP REVISIONS:
Refer to the CONVERSION TO REGULAR PROGRAM date shown on this map to determine when actuarial rates apply to structures in the zones where elevations or depths have been established.
To determine if flood insurance is available in this community, contact your insurance agent, or call the National Flood Insurance Program, at (800) 638-6620, or (800) 424-8872.
APPROXIMATE SCALE
1000
0
1000 FEET
ELEVATION REFERENCE MARKS
REFERENCE MARK
ELEVATION FEET (NGVD)
DESCRIPTION OF LOCATION
RM 1
428.77
Chiseled box on top of curb, southwest corner of intersection of Old Edwardsville Road and Thomas Street.
CORPORATE LIMITS
ZONE C
ZONE B
ZONE AH
(EL 435)
ZONE AH
(EL 438)
ZONE A21
OLD ACTON-EDWARDSVILLE ROAD
ROCK HILL ROAD
Tributary No 2
AVALON STREET
MILAND STREET
VISTA ST
GREENVIEW
BONITA STREET
LINTON STREET
WILSON ST
HARRISON ST
WATERWAY
WHITE OAK LN
LARCH LANE
WILLOW HILL
CARROLLWOOD STREET
RED FIR LANE
ALBER STREET
EDWARDS ST
WILLIAMS
LADD AVE
MADISON ST
NORTH BRUSHEY GROVE
VIRGINIA ST
COLONIAL DR
BRUSHEY GROVE
MILAND ST
CHARLES STREET
UNNAMED STREET
BERRY LANE
13TH ST
14TH STREET
12TH STREET
VAUGHN ROAD
10TH AVE
9TH STREET
8TH STREET
7TH STREET
6TH STREET
LEWIS
ESTHER
HAWTHORN
TENNYSON
JEN
THOMAS STREET
OLD EDWARDSVILLE ROAD
PRIVATE ROAD
RM1
6th Street Detention Pond
WOODLAND DRIVE
HILLVIEW DRIVE
SUMMIT STREET
WOODLAND DRIVE
ILLINOIS
GRAND AVE
ROOSEVELT
PERSHING AVE
LANE
PARK
5TH STREET
TIPTON AVENUE
GEORGE STREET
3RD STREET
ACTON
LORENA
FERGUSON
MADISON
AVENUE
CEDAR
RED BUD DR
ASH ST
GRAND AVE
POPLAR ST
WILLOW ST
HICKORY ST
EDWARDSVILLE ROAD
EATON AVE
JENNINGS AVENUE
PENNING AVENUE
WOOD RIVER AVENUE
STATE ST
ALTON AND ST LOUIS ROAD
BURLINGTON NORTHERN
CONRAIL
ILLINOIS
ASH
LOCK
TERMINAL AVENUE
RAILROAD
WALCOTT STREET
Old Channel Wood River
PRIVATE ROAD
M198.0
RIVER
MISSISSIPPI
ILLINOIS
MISSOURI
MADISON COUNTY
ST CHARLES COUNTY
STATE BOUNDARY
NATIONAL FLOOD INSURANCE PROGRAM
FIRM
FLOOD INSURANCE RATE MAP
CITY OF
WOOD RIVER, ILLINOIS
MADISON COUNTY
(ONLY PANEL PRINTED)
COMMUNITY-PANEL NUMBER
170451 0005 B
EFFECTIVE DATE:
MAY 1, 1979
U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT
FEDERAL INSURANCE ADMINISTRATION

APPENDIX L

DIRECTORY OF COAL MINES IN ILLINOIS

Madison County

This directory accompanies the Illinois Coal Mines map or maps for this County.

February 2023

ILLINOIS
Illinois State Geological Survey
PRAIRIE RESEARCH INSTITUTE

Prairie Research Institute
Illinois State Geological Survey
615 East Peabody Drive
Champaign, Illinois 61820
(217) 333-4747
http//:www.isgs.illinois.edu

INTRODUCTION

Coal has been mined in 77 counties. More than 7,400 coal mines have operated since commercial mining began in Illinois circa 1810. Our maps of known mines for each county may help the public to identify mined areas. This accompanying coal mine directory provides basic information about the coal mines. Please note, however, that the accuracy and completeness of the maps and directories vary depending on the availability and quality of source material. Little or no information is available for many mines, especially the older ones, because mining activity was not regulated or documented until the late 1800's. Even then, reporting requirements were minimal.

The coal mine maps are maps compiled by the Illinois State Geological Survey (ISGS) of known mines: underground and surface coal mines as well as underground industrial mineral mines. Buffer regions for industrial mineral underground mines were incorporated into the maps due to limited information regarding these mines. The size of the buffer region is dependent on the uncertainty or inaccuracy of the mine location based on the quality of the source material. For more information regarding industrial mineral mines please contact the ISGS Industrial Minerals Section.

In cooperation with the Illinois State Geological Survey, the Office of Mines and Minerals (a division of the Department of Natural Resources) is in search of old underground mine maps of Illinois. Many of the undocumented maps are believed to be in libraries, historical societies and personal files of old mine employees. The Department asks that anyone who knows of one of these maps, please contact the Department at (618) 650-3197 or by emailing rgibson@siue.edu. A map specialist will come to your location, if you wish. Otherwise maps can be mailed, or you may stop by one of our offices in Edwardsville, Springfield, Ottawa, or Benton. These maps will be checked against existing inventory. If they are found to be a new discovery, they will be electronically imaged and returned to the owner (if requested).

MINE MAPS

The mined areas are shown on county base maps at a scale of 1:100,000.

Three types of mine information are shown on the maps: an index number that identifies the mine in the directory, a symbol that marks the 'location' of the mine, and an outline of the mined area if that is known. The location is almost always the site of the main mine opening or, in the case of surface mines, the location of the tipple (coal washing and storage facility). The type of symbol indicates whether the opening is a shaft, drift, or slope and whether the mine is active or abandoned. Another symbol represents a mine with an uncertain type of portal and/or uncertain location. When the exact location is unknown, the symbol is placed in the center of the section or quarter section in which the mine was reported to exist. If a mine cannot be located within a section, it is not shown on the map, but is listed in the directory.

The boundaries of the mined areas are also shown for most of the mines; however, for some mines the only information available is the location of the main opening. There are three types of coal-mined areas: underground, surface, and indefinite--which are shaded with different patterns. The underground mines also show large blocks of unmined coal within the mine, when that information is available. The indefinite areas, which have been plotted from sketchy or incomplete information, usually are underground workings, although the directory should be consulted to determine the specific mine type.

For most counties, one map shows all known mines. However, in Gallatin, Saline, Vermilion, and Williamson Counties, several seams have been extensively mined. For the sake of readability, separate maps have been produced for the mines in each seam. Mines in the Herrin Coal are shown on one map, those in the Springfield Coal are shown on another, and the mines in all other coals are shown on a third map. In Vermilion County, the mines that operated in the Herrin and the Danville Coals are presented on separate maps.

Quadrangle maps at 1:24,000 scale have been completed for select areas and contain more detailed outlines with directories that contain more detailed coal mine information. The maps and directories are available as downloadable PDF files or can be purchased. Please visit the ISGS web site for more information.

MINE DIRECTORIES

Each county directory is keyed to the mine map by the mine index number; the directory provides basic information about the coal mines shown on the map. The data have been compiled from a variety of sources such as the annual Coal Report of the Illinois Office of Mines and Minerals and field notes taken by ISGS geologists. The information presented in the table is described below. A blank in any column indicates that information is not available for that item. Again, we welcome any additional information that you may have.

ISGS Index Each mine in the state is identified with a unique number; this number is shown on the map and is the link between the map and the directory. The number is permanently assigned to a mine regardless of changes in the mine name, ownership, or operator.

Company Name A mine may have been operated by more than one company or the operating company may have changed its name. Separate entries in the directory show each name and the years of operation under the name. In many instances, names have been abbreviated to fit within the space available.

Mine Name and Mine Number An entry is included for each name and/or number the mine operated under, even if the company name remained the same. Many companies use the same name for all their mines, but differentiate them by number. Again, abbreviations have been used where necessary.

Mine Type Underground mines are either "shaft," "slope," or "drift" which refers to the type of opening used to remove the coal from the mine. In shaft mines the coal is removed through a vertical shaft. Slope designates mines in which the coal is removed via a sloping incline from the ground surface to the mining level. In slope mines, miners and equipment may use either the slope or a vertical shaft to get into the mine. A drift mine is an underground mine that is excavated where the coal outcrops in the side of a bluff or the highwall of a surface mine. The mine type for surface mines is "strip" because these mines are more commonly called "strip mines."

Method This refers to the pattern by which the coal was removed. Most underground mines in Illinois have used a type of room and pillar pattern, the areas where the coal is removed are the 'rooms' with 'pillars' of coal left in place to support the roof. In some mines, the pillars were later pulled to extract additional coal. The abbreviations are listed below and most are illustrated in Figure 1.

RP	Room & Pillar; specific type unknown
RPB	Room & Pillar Basic; irregular panels, typical of old mines
MRP	Modified Room & Pillar; a somewhat more regular pattern than Room & Pillar Basic
RPP	Room and Pillar Panel; similar to Modified Room & Pillar
BRP	Blind Room and Pillar; every 6th or 7th room is left unmined to provide additional support
CRP	Checkerboard Room and Pillar; evenly spaced large pillars
LW	Longwall; all coal is removed Old longwall mines were backfilled with rock to provide support Modern longwall mines allow roof to collapse behind as mining progresses
HER	High Extraction Retreat; a form of Room & Pillar mining that extracts most of the coal

Years Operated Years that the mine operated; these dates may include periods when the mine was idle or not in full operation. Dates of mining from different sources are sometimes contradictory. The conventions that we have used to indicate where we were uncertain of dates are as follows. If we know the full range of dates that a mine operated under a specific name, those are given (1928-1934). If we know when a mine last operated, but not when it began, we use a dash and end date (-1934). If we know that a mine operated in a particular year, but not when it opened or closed, we just give the year we know (1920). To avoid confusion with the previous case, if a mine opened and closed in the same year, the year is repeated (1926-1926). In cases where a mine operated under different names, but we don't know when the name change occurred, the full range of dates is given for all names (John Smith Sr. Mine 1913-1944, Bill Smith Mine 1913-1944). A blank indicates that we have no information on the dates that the mine operated.

Coal Seam Mined The seam name is that used by the Illinois State Geological Survey. Figure 2 shows these coal seams in a stratigraphic column and provides a cross-reference to other names commonly used for these coals. If a mine has operated in more than one seam, there are separate entries in the table for each seam mined.

Location The location given is the site of the main portal or, for surface mines, the tipple. For small surface mines, the pit and the tipple are assumed to be the same. The location is based on the Public Land Survey System of townships and sections. Townships are identified by a township (north-south) and range (east-west) designation such as T14N-R6E. Townships are subdivided into approximately 36 one-square-mile sections, which are numbered from 1 to 36.

ORDERING INFORMATION

A 1:100,000 scale color plot with the directory is available at a cost of $12.50. This can be ordered by contacting the Information Office at (217) 244-2414 or sales@prairie.illinois.edu.

ACCURACY OF MAP

The maps and digital files used for this study were compiled from data obtained from a variety of sources and have varying degrees of completeness and accuracy. They present reasonable interpretations of the geology of the area and are based on available data. These data were compiled and digitized at a scale of 1:62,500, except for areas where quadrangle studies have been completed and the data was compiled at 1:24,000 or better. Locations of some features may be offset by 500 feet or more due to errors in the original source maps, the compilation process, digitizing, or a combination of these factors. These data are not intended for use in site-specific screening or decision-making. Data included in this map are suitable for use at a scale of 1:100,000.

DISCLAIMER

The Illinois State Geological Survey and the University of Illinois make no guarantee, expressed or implied, regarding the correctness of the interpretations presented in this data set and accept no liability for the consequences of decisions made by others on the basis of the information presented here.

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DIRECTORY OF COAL MINES FOR MADISON COUNTY, ILLINOIS (February 2023)

ISGS INDEX	COMPANY NAME	MINE NAME	MINE NO.	MINE TYPE	METHOD	YEARS OPERATED	SEAM MINED	COUNTY	LOCATION TWP	RGE	SEC
-1E+06	BLACK DIAMOND COAL CO.	BLACK DIAMOND		UG		1931-1931	HERRIN	MADISON	4N	8W	
-1E+06	JEDLISKA (WILLIAM)	JEDLISKA		UG		1924-1925	HERRIN	MADISON	4N	8W	
-1E+06	JIDDISKI (OPAL) & KING	JIDDISKI & KING		UG		1928-1928	HERRIN	MADISON	4N	8W	
-1E+06	SMITH (R.)	SMITH		SHAFT		1878-1879	HERRIN	MADISON	4N	8W	
70	DONK BROTHERS COAL & COKE CO	THERMAL	4	SHAFT	RPP	1920-1927	HERRIN	MADISON	4N	8W	23
70	PEABODY COAL CO.	PEABODY	17	SHAFT		1927-1931	HERRIN	MADISON	4N	8W	23
70	MADISON COUNTY COAL & MINING	THERMAL	4	SHAFT		1931-1940	HERRIN	MADISON	4N	8W	23
71	LUMAGHI COAL CO.	CANTINE	2	SHAFT	MRP	1901-1950	HERRIN	MADISON	3N	8W	25
72	NEW STAUNTON COAL CO.	NEW STAUNTON	1	SHAFT	MRP	1905-1932	HERRIN	MADISON	6N	6W	16
72	LIVINGSTON-MT OLIVE COAL CO.	LIVINGSTON & MT OLIVE	1	SHAFT	MRP	1932-1964	HERRIN	MADISON	6N	6W	16
73	MT OLIVE & STAUNTON COAL CO.	MT OLIVE & STAUNTON	2	SHAFT	RPP	1904-1957	HERRIN	MADISON	6N	6W	10
191	HOME TRADE COAL CO.	HOME TRADE		SHAFT	MRP	1898-1902	HERRIN	MADISON	4N	8W	10
191	EDWARDSVILLE HOME TRADE C C	HOME TRADE		SHAFT		1902-1904	HERRIN	MADISON	4N	8W	10
191	HOME TRADE COAL CO.	HOME TRADE		SHAFT		1904-1909	HERRIN	MADISON	4N	8W	10
191	EDWARDSVILLE HOME TRADE C C	HOME TRADE		SHAFT		1909-1916	HERRIN	MADISON	4N	8W	10
191	MADISON COUNTY MINING CO.	HOME TRADE		SHAFT		1916-1925	HERRIN	MADISON	4N	8W	10
191	WINKLE (O. L.)	HOME TRADE		SHAFT		1926-1928	HERRIN	MADISON	4N	8W	10
191	HENRIETTA COAL CO.	HOME TRADE		SHAFT		1928-1931	HERRIN	MADISON	4N	8W	10
192	ABBEY COAL CORP.	ABBEY	1	SHAFT	RPB	1903-1932	HERRIN	MADISON	3N	8W	33
192	HARDSCRABBLE COAL CO.	HARDSCRABBLE		SHAFT		1933-1937	HERRIN	MADISON	3N	8W	33
283	ECCLES (FRANK)	ECCLES		SHAFT	RP	1902-1906	COLCHESTER	MADISON	6N	10W	36
283	ECCLES (BEN)	ECCLES		SHAFT		1906-1922	COLCHESTER	MADISON	6N	10W	36
283	WOOD (WILLIAM)	WOOD		SHAFT		1922-1924	COLCHESTER	MADISON	6N	10W	36
283	SUMMERS (WILLIAM)	SUMMERS		SHAFT		1924-1925	COLCHESTER	MADISON	6N	10W	36

DIRECTORY OF COAL MINES FOR MADISON COUNTY, ILLINOIS (February 2023)

ISGS INDEX	COMPANY NAME	MINE NAME	MINE NO.	MINE TYPE	METHOD	YEARS OPERATED	SEAM MINED	COUNTY	LOCATION TWP	RGE	SEC
284	HENRIETTA COAL CO.	HENRIETTA		SHAFT	MRP	1898-1909	HERRIN	MADISON	4N	8W	1
284	ST LOUIS & ILLINOIS COAL CO	HENRIETTA		SHAFT		1909-1911	HERRIN	MADISON	4N	8W	1
284	WALKER (W. S.)	HENRIETTA		SHAFT		1911-1914	HERRIN	MADISON	4N	8W	1
284	COWAN & OTTEAREA	HENRIETTA	1	SHAFT		1914-1916	HERRIN	MADISON	4N	8W	1
284	BECK-WHITE COAL CO.	HENRIETTA		SHAFT		1916-1920	HERRIN	MADISON	4N	8W	1
284	NEW CASTLE COAL CO.	HENRIETTA		SHAFT		1920-1925	HERRIN	MADISON	4N	8W	1
284	HENRIETTA COAL CO.	HENRIETTA	1	SHAFT		1926-1934	HERRIN	MADISON	4N	8W	1
285	MADISON COAL CO.	MADISON	4	SHAFT	RPP	1893-1905	HERRIN	MADISON	4N	8W	26
285	MADISON COAL CORP.	MADISON	4	SHAFT		1905-1913	HERRIN	MADISON	4N	8W	26
344	DONK BROTHERS COAL & COKE CO	DONK	1	SHAFT	MRP	1900-1921	HERRIN	MADISON	3N	8W	22
415	MADISON C C	MADISON	2	SHAFT	RPP	1891-1932	HERRIN	MADISON	4N	8W	34
438	DONK BROTHERS COAL & COKE CO	DONK	2	SHAFT	MRP	1900-1925	HERRIN	MADISON	3N	8W	11
439	LUMAGHI COAL CO.	CANTINE	3	SHAFT	MRP	1903-1927	HERRIN	MADISON	3N	8W	26
453	KERNS-DONNEWALD	KERNS-DONNEWALD		SHAFT	MRP	1901-1922	HERRIN	MADISON	6N	7W	25
453	ILLINOIS POWER & LIGHT CORP	KERNS-DONNEWALD		SHAFT		1922-1924	HERRIN	MADISON	6N	7W	25
627	YAGER COAL CO.	YAGER		SHAFT	RPB	1911-1914	HERRIN	MADISON	5N	8W	6
627	HUMM (F.)	HUMM		SHAFT		1914-1915	HERRIN	MADISON	5N	8W	6
627	HUMM BROTHERS	HUMM		SHAFT		1915-1916	HERRIN	MADISON	5N	8W	6
627	HUMM (FRED)	HUMM		SHAFT		1916-1918	HERRIN	MADISON	5N	8W	6
627	HUMM BROTHERS	HUMM		SHAFT		1918-1920	HERRIN	MADISON	5N	8W	6
627	JAY COAL CO.	JAY		SHAFT		1920-1925	HERRIN	MADISON	5N	8W	6
627	CARLIN COAL & MINING CO.	CARLIN		SHAFT		1926-1935	HERRIN	MADISON	5N	8W	6
629	STIERS BROS CONST CO	STIERS		SURFA	STR	1934-1935	HERRIN	MADISON	6N	8W	32
644	DONK BROTHERS COAL & COKE CO	DONK	3	SHAFT	RPP	1900-1922	HERRIN	MADISON	3N	7W	9
644	TROY COAL CO.	TROY	1	SHAFT		1922-1931	HERRIN	MADISON	3N	7W	9

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ISGS INDEX	COMPANY NAME	MINE NAME	MINE NO.	MINE TYPE	METHOD	YEARS OPERATED	SEAM MINED	COUNTY	LOCATION TWP	RGE	SEC
644	CHICOPEE COAL CO.	CHICOPEE		SHAFT		1931-1941	HERRIN	MADISON	3N	7W	9
644	TROY DOMESTIC MINING CO.	TROY		SHAFT		1941-1953	HERRIN	MADISON	3N	7W	9
766	BULLOCK BROTHERS	BULLOCK		SHAFT		1899-1918	HERRIN	MADISON	3N	8W	27
766	BULLOCK MINING CO.	BULLOCK		SHAFT	MRP	1918-1938	HERRIN	MADISON	3N	8W	27
766	BURN WELL COAL CO.	BURN WELL		SHAFT		1938-1945	HERRIN	MADISON	3N	8W	27
767	EAST SIDE COAL CO.	EAST SIDE		SHAFT	MRP	1910-1940	HERRIN	MADISON	4N	8W	12
767	EDWARDSVILLE COAL CO.	EDWARDSVILLE		SHAFT		1940-1945	HERRIN	MADISON	4N	8W	12
769	SUNSET HILL COAL CO.	SUNSET HILL		SHAFT	RPP	1935-1951	HERRIN	MADISON	4N	8W	29
770	DECAMP COAL & MINING CO.	DECAMP	1	SHAFT	MRP	1903-1913	HERRIN	MADISON	6N	6W	18
842	LUMAGHI COAL CO.	CANTINE	4	SLOPE	CRP	1950-1964	HERRIN	MADISON	3N	8W	23
844	B & K COAL CO.	B & K		SLOPE		1959-1959	HERRIN	MADISON	6N	9W	26
2751	BROOKSIDE COAL CO.	BROOKSIDE		SHAFT	RPP	1881-1887	HERRIN	MADISON	3N	7W	9
2751	CONSOLIDATED C C OF ST LOUIS	BROOKSIDE		SHAFT		1887-1896	HERRIN	MADISON	3N	7W	9
2751	HARDIN (JOSEPH)	BROOKSIDE		SHAFT		1896-1897	HERRIN	MADISON	3N	7W	9
2751	CONSOLIDATED C C OF ST LOUIS	BROOKSIDE		SHAFT		1897-1906	HERRIN	MADISON	3N	7W	9
2751	BROOKSIDE COAL CO.	BROOKSIDE		SHAFT		1906-1913	HERRIN	MADISON	3N	7W	9
2753	TROY COAL & MINING CO.	TROY		SHAFT	RP	1882-1886	HERRIN	MADISON	3N	7W	9
2753	CONSOLIDATED C C OF ST LOUIS	TROY		SHAFT		1886-1896	HERRIN	MADISON	3N	7W	9
2753	WILDE & MILLER	TROY		SHAFT		1896-1897	HERRIN	MADISON	3N	7W	9
2753	CONSOLIDATED C C OF ST LOUIS	TROY		SHAFT		1897-1910	HERRIN	MADISON	3N	7W	9
2753	TROY COOP COAL & MINING CO.	TROY		SHAFT		1910-1911	HERRIN	MADISON	3N	7W	9
2756	SUGAR LOAF COAL CO.	SUGAR LOAF		SLOPE	MRP	1932-1949	HERRIN	MADISON	3N	8W	17
2757	GLEN CARBON COAL CO.	GLEN CARBON		SHAFT	RPP	1932-1943	HERRIN	MADISON	3N	8W	17
2757	CHAPMAN COAL CO.	CHAPMAN	1	SHAFT		1944-1951	HERRIN	MADISON	3N	8W	17

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2757	BLUFF COAL CO.	BLUFF	1	SHAFT		1952-1955	HERRIN	MADISON	3N	8W	17
2757	GLEN CARBON MINES, INC.	BLUFF		SHAFT		1955-1958	HERRIN	MADISON	3N	8W	17
2759	AMBROSIUS (C.A.) & MORRISON	CANTINE		SHAFT	RPP	1873-1883	HERRIN	MADISON	3N	8W	26
2759	CANTINE COAL & MINING CO.	CANTINE		SHAFT		1883-1886	HERRIN	MADISON	3N	8W	26
2759	CONSOLIDATED C C OF ST LOUIS	CANTINE		SHAFT		1886-1887	HERRIN	MADISON	3N	8W	26
2760	INDEPENDENT COAL CO.	INDEPENDENT		SHAFT		1898-1901	HERRIN	MADISON	3N	8W	26
2760	ILLINOIS HYD. PRESS BRICK	HYDRAULIC PRESS BRICK		SHAFT		1907-1908	HERRIN	MADISON	3N	8W	26
2760	INDEPENDENT COAL CO.	INDEPENDENT		SHAFT		1908-1911	HERRIN	MADISON	3N	8W	26
2760	HYDRAULIC PRESS BRICK CO.	HYDRAULIC PRESS BRICK		SHAFT		1911-1913	HERRIN	MADISON	3N	8W	26
2760	INDEPENDENT COAL CO.	INDEPENDENT		SHAFT		1913-1914	HERRIN	MADISON	3N	8W	26
2760	HYDRAULIC PRESS BRICK CO.	HYDRAULIC PRESS BRICK		SHAFT		1914-1917	HERRIN	MADISON	3N	8W	26
2760	INDEPENDENT COAL CO.	INDEPENDENT		SHAFT	MRP	1917-1920	HERRIN	MADISON	3N	8W	26
2760	HYDRAULIC PRESS BRICK	HYDRAULIC PRESS BRICK		SHAFT		1920-1930	HERRIN	MADISON	3N	8W	26
2760	BUXTON COAL CO.	BUXTON		SHAFT		1934-1937	HERRIN	MADISON	3N	8W	26
2762	WILBORN MINING CO.	WILBORN		SHAFT	RPB	1870-1874	HERRIN	MADISON	3N	8W	26
2762	BARTLETT COAL & MINING CO.	BARTLETT		SHAFT		1874-1878	HERRIN	MADISON	3N	8W	26
2762	SEIBT & BANDILEER COAL CO.	CONFIDENCE		SHAFT		1878-1881	HERRIN	MADISON	3N	8W	26
2762	CONFIDENCE COAL & MINING CO.	CONFIDENCE		SHAFT		1881-1886	HERRIN	MADISON	3N	8W	26
2762	CONSOLIDATED C C OF ST LOUIS	CONFIDENCE		SHAFT		1886-1887	HERRIN	MADISON	3N	8W	26
2765	HEINTZ BLUFF COAL & MNG. CO.	HEINTZ BLUFF		SHAFT	MRP	1876-1886	HERRIN	MADISON	3N	8W	27
2765	CONSOLIDATED C C OF ST LOUIS	HEINTZ BLUFF		SHAFT		1886-1896	HERRIN	MADISON	3N	8W	27
2765	FLETCHER (J. F.)	HEINTZ BLUFF		SHAFT		1896-1897	HERRIN	MADISON	3N	8W	27
2765	CONSOLIDATED C C OF ST LOUIS	HEINTZ BLUFF		SHAFT		1897-1906	HERRIN	MADISON	3N	8W	27
2766	LUMAGHI (DR. OCTAVIUS)	LUMAGHI	1	SHAFT	RPP	1869-1886	HERRIN	MADISON	3N	8W	27
2766	CONSOLIDATED C C OF ST LOUIS	LUMAGHI		SHAFT		1886-1888	HERRIN	MADISON	3N	8W	27
2766	LUMAGHI (O.) COLLIERY CO.	LUMAGHI		SHAFT		1888-1894	HERRIN	MADISON	3N	8W	27
2766	LUMAGHI BROTHERS COAL CO.	LUMAGHI	1	SHAFT		1894-1895	HERRIN	MADISON	3N	8W	27
2766	LUMAGHI COAL CO.	LUMAGHI	1	SHAFT		1895-1903	HERRIN	MADISON	3N	8W	27

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2767	WILLIAMS & NEWMAN	BUNKER HILL		SHAFT	MRP	1911-1912	HERRIN	MADISON	3N	8W	28
2767	BUNKER HILL COAL CO.	BUNKER HILL		SHAFT		1912-1918	HERRIN	MADISON	3N	8W	28
2767	WILLIAMS & SAGER	BUNKER HILL		SHAFT		1918-1920	HERRIN	MADISON	3N	8W	28
2767	BUNKER HILL COAL & MNG. CO.	BUNKER HILL		SHAFT		1920-1953	HERRIN	MADISON	3N	8W	28
2768	COLLINSVILLE COAL CO.	COLLINSVILLE		SHAFT	MRP	1924-1946	HERRIN	MADISON	3N	8W	28
2769	ABBEY COAL & MINING CO.	ABBEY	3	SHAFT	MRP	1875-1886	HERRIN	MADISON	3N	8W	34
2769	CONSOLIDATED C C OF ST LOUIS	ABBEY	3	SHAFT		1886-1896	HERRIN	MADISON	3N	8W	34
2769	JOLLY (T. F.)	ABBEY	3	SHAFT		1896-1897	HERRIN	MADISON	3N	8W	34
2769	CONSOLIDATED C C OF ST LOUIS	ABBEY	3	SHAFT		1897-1906	HERRIN	MADISON	3N	8W	34
2770	COLLINSVILLE COAL & MNG. CO.	COLLINSVILLE		SHAFT	MRP	1862-1886	HERRIN	MADISON	3N	8W	34
2770	CONSOLIDATED C C OF ST LOUIS	COLLINSVILLE		SHAFT		1886-1887	HERRIN	MADISON	3N	8W	34
2771	BLACK DIAMOND COAL CO.	YOUNG		SHAFT		1943-1943	HERRIN	MADISON	4N	7W	29
2771	FORSYTHE-CARTERVILLE COAL CO	FORSYTHE-CARTERVILLE		SHAFT		1958-1958	HERRIN	MADISON	4N	7W	29
2772	TUNSTELL & HOLMES	TUNSTELL & HOLMES		SHAFT		1869-1879	HERRIN	MADISON	4N	8W	10
2772	PRICKETT (J. A.)	PRICKETT		SHAFT		1879-1882	HERRIN	MADISON	4N	8W	10
2773	SHRAMECK (FRANK)	WABASH		SHAFT		1879-1886	HERRIN	MADISON	4N	8W	10
2773	WONDERLY (P.) COAL CO.	WONDERLY		SHAFT	RP	1886-1897	HERRIN	MADISON	4N	8W	10
2774	KELLY (JOHN) & SONS	KELLY		SHAFT	RP	1886-1889	HERRIN	MADISON	4N	8W	4
2775	INKHAUS (J.)	INKHAUS		SHAFT	RP	1881-1883	HERRIN	MADISON	4N	8W	10
2776	WOLF BROTHERS COAL & MNG CO	WOLF		SHAFT	MRP	1879-1891	HERRIN	MADISON	4N	8W	11
2776	MADISON COAL CO.	MADISON	3	SHAFT		1891-1904	HERRIN	MADISON	4N	8W	11
2776	EDWARDSVILLE COAL CO.	EDWARDSVILLE	3	SHAFT		1904-1910	HERRIN	MADISON	4N	8W	11
2776	CITY COAL CO.	CITY	3	SHAFT		1910-1917	HERRIN	MADISON	4N	8W	11
2776	EDWARDSVILLE COAL CO.	EDWARDSVILLE	3	SHAFT		1917-1923	HERRIN	MADISON	4N	8W	11

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ISGS INDEX	COMPANY NAME	MINE NAME	MINE NO.	MINE TYPE	METHOD	YEARS OPERATED	SEAM MINED	COUNTY	LOCATION TWP	RGE	SEC
2777	TRUCK TRADE COAL CO.	TRUCK TRADE		SHAFT	MRP	1936-1951	HERRIN	MADISON	4N	8W	29
2778	MADISON COAL CO	MADISON	1	SHAFT	MRP	1890-1897	HERRIN	MADISON	4N	8W	34
2779	BACKS (WILLIAM)	BACKS		SHAFT	RP	1902-1920	HERRIN	MADISON	5N	7W	5
2780	HILLSIDE COAL CO.	HILLSIDE		SHAFT	MRP	1933-1939	HERRIN	MADISON	5N	8W	6
2780	SCHOENEWEIS (PAUL)	SCHOENEWEIS		SHAFT		1940-1941	HERRIN	MADISON	5N	8W	6
2780	HILLSIDE COAL CO.	HILLSIDE		SHAFT		1941-1942	HERRIN	MADISON	5N	8W	6
2781	RITCHIE (JOHN B.)	RITCHIE		SHAFT	RPB	1935-1936	HERRIN	MADISON	5N	8W	6
2781	MIDWAY COAL CO.	MIDWAY		SHAFT		1936-1937	HERRIN	MADISON	5N	8W	6
2781	COALFAX COAL CO.	COALFAX (ALJETS)		SHAFT		1938-1940	HERRIN	MADISON	5N	8W	6
2781	GOLDEN GLOW COAL CO.	GOLDEN GLOW (RITCHIE)		SHAFT		1938-1938	HERRIN	MADISON	5N	8W	6
2781	MARIN (PETE & LOUIS)	COALFAX		SHAFT		1941-1941	HERRIN	MADISON	5N	8W	6
2781	COALFAX COAL CO.	COALFAX		SHAFT		1942-1942	HERRIN	MADISON	5N	8W	6
2782	JIDDISKI & KING	JIDDISKI & KING		SHAFT			HERRIN	MADISON	5N	8W	8
2783	RUSSELL COAL CO.	RUSSELL		SHAFT		-1910	HERRIN	MADISON	5N	8W	8
2784	JEDLISKA (WILLIAM)	JEDLISKA		SHAFT	RP	1924-1925	HERRIN	MADISON	5N	8W	8
2784	JEDUSKA (WILLIAM)	JEDUSKA		SHAFT		1925-1930	HERRIN	MADISON	4N	8W	8
2784	VICTORY COAL CO.	VICTORY		SHAFT		1930-1931	HERRIN	MADISON	5N	8W	8
2785	MEYER (MRS.)	MEYER		SHAFT	RP	1878-1879	HERRIN	MADISON	5N	9W	1
2785	MYER (MICHAEL)	MYER		SHAFT		1881-1885	HERRIN	MADISON	5N	9W	1
2785	MEYER (P.)	MEYER		SHAFT		1885-1887	HERRIN	MADISON	5N	9W	1
2786	NEUNABER,OPER BEF 1883 PROB	NEUNABER					HERRIN	MADISON	5N	9W	1
2786	BRUNTON (DAVID)	BRUNTON		SHAFT	RP	1881-1883	HERRIN	MADISON	5N	9W	1
2787	ALBERS (GEORGE)	WEST		SHAFT		-1923	HERRIN	MADISON	5N	9W	1

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2788	SPENCER (JOHN)	SPENCER		SHAFT	RP	1901-1908	HERRIN	MADISON	5N	9W	1
2788	WOLF BROTHERS	WOLF		SHAFT		1908-1909	HERRIN	MADISON	5N	9W	1
2788	ARBUTHNOT & COOPER	ARBUTHNOT & COOPER		SHAFT		1920-1924	HERRIN	MADISON	5N	9W	1
2788	ARBUTHNOT (W. C.)	ARBUTHNOT		SHAFT		1920-1920	HERRIN	MADISON	5N	9W	1
2788	COOPER & ARHUSTMATE	COOPER & ARHUSTMATE		SHAFT		1924-1925	HERRIN	MADISON	5N	9W	1
2788	COOPER & WOLF	COOPER & WOLF		SHAFT		1925-1925	HERRIN	MADISON	5N	9W	1
2789	WILSON & KENNEDY	W & K		SHAFT		1920-1921	HERRIN	MADISON	5N	9W	1
2790	TRUAX TRAER C C	TRUAX TRAER		UG			HERRIN	MADISON	5N	9W	1
2791	H. C. F. COAL CO.	H C F					COLCHESTER	MADISON	5N	9W	6
2792	JOBE MINE	JOBE		SHAFT			HERRIN	MADISON	5N	9W	12
2793	JAMES (JOHN)	JAMES		SHAFT		1895-1901	HERRIN	MADISON	5N	9W	12
2794	BALSTER & HAMENING	BALSTER & HAMENING		SHAFT			COLCHESTER	MADISON	5N	9W	14
2794	BALSTERS (EDWARD)	BALSTERS		SHAFT			COLCHESTER	MADISON	5N	9W	14
2795	NEW DOUGLAS COAL & MNG. CO.	NEW DOUGLAS		SHAFT		1891-1892	HERRIN	MADISON	6N	5W	16
2795	CLOVER COAL & MINING CO.	CLOVER		SHAFT		1902-1903	HERRIN	MADISON	6N	5W	16
2795	MELF BROTHERS	MELF		SHAFT		1905-1908	HERRIN	MADISON	6N	5W	16
2795	BIG MOUND COAL CO.	BIG MOUND		SHAFT		1908-1910	HERRIN	MADISON	6N	5W	16
2795	HARRIS (T. R.)	HARRIS		SHAFT		1918-1919	HERRIN	MADISON	6N	5W	16
2796	MT OLIVE & STAUNTON COAL CO.	MT OLIVE & STAUNTON		SHAFT		1897-1899	HERRIN	MADISON	6N	6W	8
2796	VOGE (HENRY)	VOGE		SHAFT	MRP	1897-1897	HERRIN	MADISON	6N	6W	8
2796	STAUNTON COAL CO.	STAUNTON	1	SHAFT		1899-1904	HERRIN	MADISON	6N	6W	8
2796	MT OLIVE & STAUNTON COAL CO.	MT OLIVE & STAUNTON	1	SHAFT		1904-1923	HERRIN	MADISON	6N	6W	8
2797	MITCHELL BROTHERS	MITCHELL		SHAFT	MRP	1899-1901	HERRIN	MADISON	6N	7W	8
2797	MITCHELL (JAMES)	MITCHELL		SHAFT	MRP	1901-1902	HERRIN	MADISON	6N	7W	8
2797	MITCHELL (JOHN E.)	MITCHELL		SHAFT	MRP	1902-1903	HERRIN	MADISON	6N	7W	8

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2797	SCHULER (THEODORE)	KLONDIKE		SHAFT	MRP	1903-1911	HERRIN	MADISON	6N	7W	8
2797	HARDIN & STREGEMEIER	KLONDIKE		SHAFT	MRP	1911-1912	HERRIN	MADISON	6N	7W	8
2797	STIEGEMEIER (ELI)	KLONDIKE		SHAFT	MRP	1912-1916	HERRIN	MADISON	6N	7W	8
2797	KOWALISK (JOHN)	KLONDIKE		SHAFT	MRP	1916-1930	HERRIN	MADISON	6N	7W	8
2797	KLONDIKE COAL CO.	KLONDIKE		SHAFT	MRP	1931-1940	HERRIN	MADISON	6N	7W	8
2798	PRAIRIETOWN COAL CO.	PRAIRIETOWN	1	SHAFT	MRP	1937-1944	HERRIN	MADISON	6N	7W	18
2799	MCDONALD (DOCTOR)	MCDONALD		SHAFT	RPB	1882-1886	HERRIN	MADISON	6N	7W	24
2799	CONSOLIDATED C C OF ST LOUIS	MACDONALD		SHAFT		1886-1896	HERRIN	MADISON	6N	7W	24
2799	FIRMAN COAL CO.	MACDONALD		SHAFT		1896-1897	HERRIN	MADISON	6N	7W	24
2799	CONSOLIDATED CC OF ST LOUIS	MACDONALD		SHAFT		1897-1902	HERRIN	MADISON	6N	7W	24
2799	INTERSTATE COAL & MINING CO.	INTERSTATE	1	SHAFT		1902-1909	HERRIN	MADISON	6N	7W	24
2801	WABASH COAL MINING CO.	WABASH		SHAFT	RPP	1881-1884	HERRIN	MADISON	6N	7W	25
2801	ELLSWORTH COAL & MINING CO.	ELLSWORTH	12	SHAFT		1884-1886	HERRIN	MADISON	6N	7W	25
2801	CONSOLIDATED C C OF ST LOUIS	WORDEN	12	SHAFT		1886-1893	HERRIN	MADISON	6N	7W	25
2801	COAR & LENART	COAR & LENART		SHAFT		1893-1895	HERRIN	MADISON	6N	7W	25
2801	CONSOLIDATED C C OF ST LOUIS	CONSOLIDATED	12	SHAFT		1895-1896	HERRIN	MADISON	6N	7W	25
2801	FIRMAN-COAR COAL CO.	WORDEN	12	SHAFT		1896-1897	HERRIN	MADISON	6N	7W	25
2801	CONSOLIDATED C C OF ST LOUIS	CONSOLIDATED	12	SHAFT		1897-1901	HERRIN	MADISON	6N	7W	25
2802	WORDEN C C	WORDEN		DRIFT		1940-1942	HERRIN	MADISON	6N	7W	27
2803	WORDEN COAL CO.	WORDEN	11	SHAFT	RP	1877-1881	HERRIN	MADISON	6N	7W	35
2803	WORDEN COAL MINING CO.	WORDEN		SHAFT		1881-1884	HERRIN	MADISON	6N	7W	35
2803	ELLSWORTH COAL & MINING CO.	ELLSWORTH	11	SHAFT		1884-1886	HERRIN	MADISON	6N	7W	35
2803	CONSOLIDATED C C OF ST LOUIS	WORDEN	11	SHAFT		1886-1887	HERRIN	MADISON	6N	7W	35
2804	CHALLINGSWORTH	NO. 1 & NO. 3		SHAFT			HERRIN	MADISON	6N	9W	23
2805	YAEGER & GREEN	YAEGER & GREEN					HERRIN	MADISON	6N	8W	31
2806	KABLE (H.)	KABLE		SHAFT	MRP	1893-1894	HERRIN	MADISON	6N	8W	31

DIRECTORY OF COAL MINES FOR MADISON COUNTY, ILLINOIS (February 2023)

ISGS INDEX	COMPANY NAME	MINE NAME	MINE NO.	MINE TYPE	METHOD	YEARS OPERATED	SEAM MINED	COUNTY	LOCATION TWP	RGE	SEC
2806	KABLE (CHARLES)	KABLE		SHAFT		1894-1895	HERRIN	MADISON	6N	8W	31
2806	LARGENT (WILLIAM)	LARGENT		SHAFT		1895-1896	HERRIN	MADISON	6N	8W	31
2806	KABLE (CHARLES)	KABLE		SHAFT		1896-1902	HERRIN	MADISON	6N	8W	31
2806	KABLE (GEORGE)	KABLE		SHAFT		1902-1911	HERRIN	MADISON	6N	8W	31
2806	WILKENNING (WILLIAM) & STAHL	WILKENNING & STAHL		SHAFT		1924-1928	HERRIN	MADISON	6N	8W	31
2806	HAUSMAN (FRED)	HAUSMAN		SHAFT		1929-1929	HERRIN	MADISON	6N	8W	31
2806	MORO COAL CO.	MORO		SHAFT		1930-1930	HERRIN	MADISON	6N	8W	31
2806	WILKENNING (WILLIAM H.)	WILKENNING		SHAFT		1931-1932	HERRIN	MADISON	6N	8W	31
2806	MORO COAL CO.	MORO		SHAFT		1933-1935	HERRIN	MADISON	6N	8W	31
2806	MORO COAL CO.	MORO	2	SHAFT		1935-1936	HERRIN	MADISON	6N	8W	31
2806	WILKINING (WILLIAM H.)	WILKINING		SHAFT		1937-1941	HERRIN	MADISON	6N	8W	31
2806	MORO COAL CO. (ANDERSON)	MORO		SHAFT		1941-1941	HERRIN	MADISON	6N	8W	31
2806	MORO COAL CO.	MORO		SHAFT		1942-1942	HERRIN	MADISON	6N	8W	31
2807	TOBIAS	TOBIAS		SHAFT			HERRIN	MADISON	6N	8W	31
2808	MORO COAL & MINING CO.	MORO		SHAFT		1918-1921	HERRIN	MADISON	6N	8W	32
2808	MIZER COAL CO.	MIZER		SHAFT		1921-1921	HERRIN	MADISON	6N	8W	32
2809	SEVEN HILLS COAL CO.	SEVEN HILLS		SHAFT		1935-1935	HERRIN	MADISON	6N	9W	2
2809	AULICH (JOSEPH)	AULICH		SHAFT		1936-1937	HERRIN	MADISON	6N	9W	2
2809	SEVEN HILLS COAL CO.	SEVEN HILLS		SHAFT		1938-1941	HERRIN	MADISON	6N	9W	2
2810	SAWYER	SAWYER		STRIP			HERRIN	MADISON	6N	9W	9
2811	HENDRICKS	HENDRICKS					HERRIN	MADISON	6N	9W	9
2812	NARMON	HARMON		SHAFT			HERRIN	MADISON	6N	9W	9
2813	HERMAN & HOUSMAN	H & H		SHAFT	RP	1903-1905	HERRIN	MADISON	6N	9W	11
2814	HAUCKE (FRED)	HAUCKE		SHAFT	RP	1903-1904	HERRIN	MADISON	6N	9W	13
2814	HAUCKE (H. L.)	HAUCKE		SHAFT		1904-1905	HERRIN	MADISON	6N	9W	13
2814	RINK (ERNEST H.)	RINK		SHAFT		1905-1943	HERRIN	MADISON	6N	9W	13

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ISGS INDEX	COMPANY NAME	MINE NAME	MINE NO.	MINE TYPE	METHOD	YEARS OPERATED	SEAM MINED	COUNTY	LOCATION TWP	RGE	SEC
2816	MC CREA	MCCREA		SHAFT	RP	-1860	HERRIN	MADISON	6N	9W	14
2817	HENKHAUS (JOHN)	HENKHAUS		SHAFT		1935-1937	HERRIN	MADISON	6N	9W	14
2818	SYCAMORE MINES	SYCAMORE				1935-1935	HERRIN	MADISON	6N	9W	14
2819	MUESSEL & MCCAULEY COAL CO.	MUESSEL & MCCAULEY		SHAFT	RP	1934-1934	HERRIN	MADISON	6N	9W	15
2819	MUESSEL (JOHN)	MUESSEL				1935-1935	HERRIN	MADISON	6N	9W	15
2819	MUESSEL & MCCAULEY COAL CO.	MUESSEL & MCCAULEY		SHAFT		1936-1936	HERRIN	MADISON	6N	9W	15
2820	GOLIKE (HARRY)	GOLIKE		SHAFT		1903-1905	HERRIN	MADISON	6N	9W	23
2820	MYERS (MISH)	MYERS		SHAFT		1905-1906	HERRIN	MADISON	6N	9W	23
2821	BAUER,HENRY	BAUER		SLOPE	RP	1915-1918	HERRIN	MADISON	6N	9W	23
2822	HILL (JAMES)	HILL		SHAFT	RP		HERRIN	MADISON	6N	9W	14
2822	CHALLENSWORTH (WILLIAM)	CHALLENSWORTH		SHAFT		1878-1897	HERRIN	MADISON	6N	9W	14
2822	CHALLENGSWORTH (AMOS)	CHALLENGSWORTH		SHAFT		1897-1900	HERRIN	MADISON	6N	9W	14
2823	CULP GROVE COAL CO.	CULP GROVE		SHAFT	RP	1928-1937	HERRIN	MADISON	6N	9W	23
2824	RUFF-SCHRAMECK COAL CO.	RUFF-SCHRAMECK	1	SHAFT	CRP	1943-1945	HERRIN	MADISON	6N	9W	25
2824	ARDENT COAL CO.	ARDENT		SHAFT		1946-1948	HERRIN	MADISON	6N	9W	25
2825	SMITH,E L C C	SMITH		STRIP		1935-1936	HERRIN	MADISON	6N	9W	26
2826	DRAPER-JOHNSON	DRAPER-JOHNSON				1932-1934	HERRIN	MADISON	6N	9W	26
2826	DRAPER COAL CO.	DRAPER				1935-1936	HERRIN	MADISON	6N	9W	26
2827	HANKHOUSE	HANKHOUSE		SHAFT			HERRIN	MADISON	6N	9W	27
2828	TICHNEAL (WILLIAM)	TICHNEAL		SLOPE	RP	1890-1891	HERRIN	MADISON	6N	9W	27

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ISGS INDEX	COMPANY NAME	MINE NAME	MINE NO.	MINE TYPE	METHOD	YEARS OPERATED	SEAM MINED	COUNTY	LOCATION TWP	RGE	SEC
2829	FRANKFORD (ANDREW)	FRANKFORD		SHAFT		1899-1900	HERRIN	MADISON	6N	9W	27
2829	TICHNEAL (THOMAS)	TICHNEAL		SHAFT		1900-1901	HERRIN	MADISON	6N	9W	27
2830	KOGEL & MITCHELL	KOGEL & MITCHELL		SHAFT		1937-1937	HERRIN	MADISON	6N	9W	30
2831	KOCH	KOCH					HERRIN	MADISON	6N	9W	36
2832	PANAMA COAL CO.	PANAMA		SHAFT		1934-1936	HERRIN	MADISON	6N	9W	36
2832	DALE (S. M.)	PANAMA	1	SHAFT		1937-1938	HERRIN	MADISON	6N	9W	36
2833	VALLEY COAL CO.	VALLEY		SHAFT		1931-1931	HERRIN	MADISON	6N	9W	36
2834	BIG BEN COAL CO.	BIG BEN		STRIP			HERRIN	MADISON	6N	9W	36
2835	FRANKLIN (HOWARD) COAL CO.	FRANKLIN		SHAFT		1931-1933	HERRIN	MADISON	6N	9W	36
2836	VANBERGER COAL CO.	VANBERGER		SHAFT		1934-	COLCHESTER	MADISON	6N	10W	13
2837	GERDT COAL CO.	GERDT		SHAFT		1934-1940	COLCHESTER	MADISON	6N	10W	24
2837	GOACHER (EVERETT)	GOACHER		SHAFT		1941-1941	COLCHESTER	MADISON	6N	10W	24
2838	RUTLEDGE (JOHN)	RUTLEDGE		SHAFT		1875-1880	COLCHESTER	MADISON	6N	10W	35
2839	WATTS (M. & M.)	WATTS		SHAFT			COLCHESTER	MADISON	6N	10W	35
2839	WATTS (WILLIAM)	WATTS		SHAFT			COLCHESTER	MADISON	6N	10W	35
2840	KITTINGER (D. M.)	KITTINGER		DRIFT			COLCHESTER	MADISON	6N	10W	36
2841	BIG ARCH COAL CO.	BIG ARCH		SHAFT		1936-1936	COLCHESTER	MADISON	6N	10W	36
2842	WILSON (WARREN)	WILSON		SHAFT		1933-1938	ROCK ISLAND	MADISON	6N	10W	36
2944				SHAFT			HERRIN	MADISON	6N	9W	36

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ISGS INDEX	COMPANY NAME	MINE NAME	MINE NO.	MINE TYPE	METHOD	YEARS OPERATED	SEAM MINED	COUNTY	LOCATION TWP	RGE	SEC
3295	SHOENEWEIS	SHOENEWEIS		SHAFT		-1937	HERRIN	MADISON	6N	9W	36
3600	ABBEY COAL CO (2ND SHAFT #3)	ABBEY	4	SHAFT	MRP	1881-1885	HERRIN	ST. CLAIR	2N	8W	3
3600	CONSOLIDATED C C OF ST LOUIS	ABBEY	4	SHAFT	MRP	1886-1896	HERRIN	ST. CLAIR	2N	8W	3
3600	WHITAKER (WILLIAM)	ABBEY	4	SHAFT	MRP	1896-1897	HERRIN	ST. CLAIR	2N	8W	3
3600	CONSOLIDATED C C OF ST LOUIS	ABBEY	4	SHAFT	MRP	1897-1898	HERRIN	ST. CLAIR	2N	8W	3
3619	WEST SIDE COAL CO.	WEST SIDE		SHAFT	MRP	1933-1938	HERRIN	ST. CLAIR	3S	6W	21
3619	MARISSA WEST SIDE COAL CO.	WEST SIDE		SHAFT	MRP	1938-1939	HERRIN	ST. CLAIR	3S	6W	21
3619	WEST SIDE COOP. COAL CO.	WEST SIDE		SHAFT	MRP	1939-1941	HERRIN	ST. CLAIR	3S	6W	21
3619	PRAIRIE STATE COAL & MNG CO.	MARY KAY		SHAFT	MRP	1941-1949	HERRIN	ST. CLAIR	3S	6W	21
3619	NEW WEST SIDE COAL CO., INC.	WEST SIDE		SHAFT	MRP	1949-1955	HERRIN	ST. CLAIR	3S	6W	21
3647				SHAFT				MADISON	6N	9W	36
4178	CHERRIER BROTHERS	CHERRIER		SHAFT		1934-1935	HERRIN	MADISON	5N	9W	1
4178	SUNRISE COAL CO.	SUNRISE		SHAFT	MRP	1936-1942	HERRIN	MADISON	5N	9W	1
4252				SHAFT			HERRIN	MADISON	6N	8W	30
4253	VAN DUKER	VAN DUKER				1934-1935	HERRIN	MADISON	6N	9W	36
4254	ZOELZERS	ZOELZERS		SHAFT			HERRIN	MADISON	5N	8W	6
5497	O. K. COAL CO.	O. K.		SHAFT			HERRIN	MADISON	5N	8W	8
5497	O. K. SHAFT	O. K.		SHAFT		1928-1928	HERRIN	MADISON	5N	8W	8
5576				SHAFT			HERRIN	MADISON	5N	8W	6
5576				SHAFT			HERRIN	MADISON	5N	8W	6
5577				SHAFT			HERRIN	MADISON	5N	8W	6
5577	[FROM LAND BANK REPORT]			UG			HERRIN	MADISON	5N	8W	6
5579				SHAFT			HERRIN	MADISON	5N	8W	6

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ISGS INDEX	COMPANY NAME	MINE NAME	MINE NO.	MINE TYPE	METHOD	YEARS OPERATED	SEAM MINED	COUNTY	LOCATION TWP	RGE	SEC
5579				SHAFT	RP		HERRIN	MADISON	5N	8W	6
5585	RITTER (HENRY)	RITTER		SHAFT		1855-1870	HERRIN	MADISON	4N	8W	3
5585	SMIDT (MRS.)	SMIDT		SHAFT	RP	1870-1875	HERRIN	MADISON	4N	8W	3
5586				SHAFT			HERRIN	MADISON	5N	9W	1
5586	[FROM FIELD NOTES]			SHAFT	RP		SPRINGFIELD	MADISON	5N	9W	1
5588				SHAFT			HERRIN	MADISON	5N	8W	1
5589				SHAFT			HERRIN	MADISON	5N	8W	6
5592				SHAFT			HERRIN	MADISON	6N	8W	31
5594	HAUSMAN BROTHERS	HAUSMAN		SHAFT		1925-1925	HERRIN	MADISON	6N	8W	31
5594	HAUSMAN (FRED)	HAUSMAN		SHAFT		1925-1926	HERRIN	MADISON	6N	8W	31
5594	JOSHER COAL CO.	JOSHER		SHAFT		1927-1928	HERRIN	MADISON	6N	8W	31
5658				SHAFT			HERRIN	MADISON	6N	9W	11
5780				SHAFT			HERRIN	MADISON	6N	9W	12
5830				SHAFT			HERRIN	MADISON	6N	9W	14
5842	HAUSMAN (JOHN)	HAUSMAN		SLOPE			HERRIN	MADISON	6N	9W	12
5843				SLOPE			HERRIN	MADISON	6N	9W	23
5949				SHAFT			HERRIN	MADISON	6N	9W	26
6168				SHAFT			HERRIN	MADISON	6N	9W	36
6177				SHAFT			HERRIN	MADISON	6N	9W	36

DIRECTORY OF COAL MINES FOR MADISON COUNTY, ILLINOIS (February 2023)

ISGS INDEX	COMPANY NAME	MINE NAME	MINE NO.	MINE TYPE	METHOD	YEARS OPERATED	SEAM MINED	COUNTY	LOCATION TWP	RGE	SEC
6366	BUCK ROAD COAL CO.	BUCK ROAD		SHAFT		1940-1945	HERRIN	MADISON	3N	8W	4
6367				SHAFT			HERRIN	MADISON	6N	9W	26
6368	BURNS & CHALLINGSWORTH	BURNS & CHALLINGSWORTH		SHAFT			HERRIN	MADISON	6N	9W	23
6369	CHALLINGSWORTH	CHALLINGSWORTH	4	SHAFT	RP		HERRIN	MADISON	6N	9W	14
6370	BIERBAUM (WILLIAM)	SIDE HILL		SHAFT			HERRIN	MADISON	6N	9W	11
6370	EDDINGTON	EDDINGTON		SHAFT		1854-1857	HERRIN	MADISON	6N	9W	11
6370	SEEDLER	SEEDLER		SHAFT		1857-1862	HERRIN	MADISON	6N	9W	11
6371				DRIFT				MADISON	6N	9W	23
6372	WEILAND & MILLER	WEILAND & MILLER		SHAFT	RP		HERRIN	MADISON	4N	8W	29
6390				UG			HERRIN	MADISON	6N	9W	7
6390							HERRIN	MADISON	6N	9W	7
6461				SHAFT			HERRIN	MADISON	5N	8W	6
6462				SHAFT			HERRIN	MADISON	5N	8W	8
6469				SHAFT			HERRIN	MADISON	5N	8W	1
6470	BEFORE 1922			SLOPE				MADISON	5N	8W	6
6471	BETHALTO COAL CO.			SHAFT		1935-1935	HERRIN	MADISON	5N	8W	6
6472	OPAL, TEDLISKA & KING	OPAL, TEDLISKA & KING		SHAFT			HERRIN	MADISON	5N	8W	8
6472	OPAL-JIDDISKI	OPAL-JIDDISKI		SHAFT		1928-1928	HERRIN	MADISON	5N	8W	8
6473	BARTLETT MINING CO.	BARTLETT		SHAFT	RP	1869-1875	HERRIN	MADISON	4N	8W	3

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ISGS INDEX	COMPANY NAME	MINE NAME	MINE NO.	MINE TYPE	METHOD	YEARS OPERATED	SEAM MINED	COUNTY	LOCATION TWP	RGE	SEC
6475				SHAFT			HERRIN	MADISON	6N	7W	7
6476				SHAFT			HERRIN	MADISON	5N	9W	1
6477				SHAFT				MADISON	6N	8W	30
6478				SHAFT			HERRIN	MADISON	5N	9W	1
6479				SHAFT				MADISON	5N	9W	1
6480	BEFORE 1922 - TWO SHAFTS			SHAFT				MADISON	6N	8W	30
6482	LAUMAN (G. F.)	LAUMAN		SHAFT		1910-1911	HERRIN	MADISON	5N	8W	8
6482	KABEL (GEORGE)	KABEL		SHAFT		1911-1918	HERRIN	MADISON	5N	8W	8
6484	ARBUTHNOT			SHAFT			HERRIN	MADISON	6N	8W	31
6485				SHAFT				MADISON	6N	8W	30
6486				SHAFT				MADISON	6N	8W	30
6487								MADISON	6N	8W	31
6488								MADISON	6N	10W	35
6489								MADISON	6N	10W	35
6490	OPER 1929			SHAFT			HERRIN	MADISON	6N	8W	31
6491								MADISON	6N	10W	35
6492								MADISON	6N	10W	35
6493								MADISON	5N	10W	2

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ISGS INDEX	COMPANY NAME	MINE NAME	MINE NO.	MINE TYPE	METHOD	YEARS OPERATED	SEAM MINED	COUNTY	LOCATION TWP	RGE	SEC
6494								MADISON	5N	10W	2
6495								MADISON	6N	10W	36
6497								MADISON	5N	10W	1
6498								MADISON	6N	9W	30
6499	2 SHAFTS			SHAFT				MADISON	6N	9W	30
6500								MADISON	6N	9W	30
6501				DRIFT				MADISON	6N	10W	24
6502				STRIP				MADISON	6N	9W	9
6504	BOALS (M. H.)	BOALS		SHAFT		1881-1886	COLCHESTER	MADISON	6N	102	35
6504	ALTON STONEWARE & FIRE BRICK	ALTON BRICK		SHAFT	RPB	1886-1892	COLCHESTER	MADISON	6N	10W	35
6505	MITCHELL (WILLIAM)	MITCHELL		SHAFT		1941-1941	HERRIN	MADISON	6N	9W	22
6506				DRIFT				MADISON	6N	9W	26
6507				SHAFT				MADISON	6N	9W	36
6508				SHAFT				MADISON	6N	8W	30
6509				SHAFT				MADISON	6N	8W	31
6510	NUTTER (GRAF)	CALLAM		SHAFT		1928-1928	COLCHESTER	MADISON	6N	9W	20
6511								MADISON	6N	8W	31

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ISGS INDEX	COMPANY NAME	MINE NAME	MINE NO.	MINE TYPE	METHOD	YEARS OPERATED	SEAM MINED	COUNTY	LOCATION TWP	RGE	SEC
6512				SHAFT				MADISON	6N	9W	8
6513				SHAFT				MADISON	6N	9W	23
6514				SHAFT				MADISON	5N	8W	6
6531	FORT RUSSELL COAL CO.	FORT RUSSELL		SHAFT	RP			MADISON	5N	8W	8
6535								MADISON	6N	10W	35
6540				DRIFT				MADISON	6N	9W	35
6554	GLASMEYER (JOHN)	GLASMEYER		SHAFT			HERRIN	MADISON	5N	8W	8
6581	STARK COAL CO.	STARK		SLOPE		1924-1925	HERRIN	MADISON	6N	9W	36
6589	OPER 1922			SHAFT				MADISON	6N	9W	31
6590	WILLIAMS (LEW) COAL & MNG CO	WILLIAMS				1950-1951		MADISON			
6591	BAER BROS					1889-1891		MADISON			
6591	LUCKING, BF					1891-1900		MADISON			
6592	FERN GLEN COAL CO.	FERN GLEN		SLOPE			HERRIN	MADISON	6N	9W	36
6593	ZITTEL BEFORE 1922	ZITTEL		SHAFT				MADISON	6N	10W	36
6594	BEFORE 1922			SHAFT				MADISON	6N	10W	36
6595	BEFORE 1922			SHAFT				MADISON	6N	10W	36
6596				SHAFT				MADISON	6N	10W	36
6597								MADISON	6N	8W	30

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ISGS INDEX	COMPANY NAME	MINE NAME	MINE NO.	MINE TYPE	METHOD	YEARS OPERATED	SEAM MINED	COUNTY	LOCATION TWP	RGE	SEC
6795				SHAFT	UG		HERRIN	MADISON	4N	8W	3
6830	general mined-out area			UG			HERRIN	MADISON	4N	8W	3
6831	general mined-out area			UG			HERRIN	MADISON	6N	9W	36
6832	general mined-out area			UG			COLCHESTER	MADISON	6N	10W	35
6834	general mined-out area			UG			COLCHESTER	MADISON	6N	10W	36
7732	HILL BROTHERS						HERRIN	MADISON	6N	9W	27

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Mineral Industry Surveys

For information, contact:
Shonta E. Osborne, Industry Data Analyst
U.S. Geological Survey
985 National Center
Reston, VA 20192
Telephone: (703) 648–7971
Fax: (703) 648–7975
E-mail: sosborne@usgs.gov

Internet: http://minerals.usgs.gov/minerals

DIRECTORY OF ACTIVE METAL AND INDUSTRIAL MINERAL UNDERGROUND MINES IN THE UNITED STATES IN 2015

Mining companies with underground mines that were active in 2015 and surveyed by the U.S. Geological Survey (USGS) are listed in this report. The list was derived from data reported on the "Mine, Development, and Mineral Exploration Supplement" statistical survey conducted by the USGS and from data reported on other individual mineral commodity production surveys. These surveys accounted for 44 nonfuel mineral commodities produced in the United States. Nonfuel minerals do not include coal, oil and gas, petroleum coke, uranium, and related products.

Total domestic ore and waste removal for nonfuel mineral materials production at underground operations was 175 million metric tons (Mt) in 2015. Crude ore mined at these underground operations was 170 Mt. The balance was waste removed, including ore and waste from development operations. Total underground mining for industrial minerals and metals removed 153 Mt and 22 Mt of material, respectively, nearly all of which was crude ore.

Company names, as listed in table 1, represent the mine owners. When multiple owners or mine interests have been identified, the parent operating company is used and shared owner or interest companies are listed in parentheses. Mineral commodity data listed in table 1 are reported according to the primary or principal product of a mine or operation. The primary product is the product with the highest total value for 2015.

Table 1.—Metal and industrial mineral underground mines in the United States with reported production in 2015.

State and company	Operation[1]	Commodity[2]	County[3]
Alabama			
Olin Corp.	Olin	Salt	Washington.
Alaska			
Coeur Mining Inc.	Kensington Mine	Gold	Juneau (B).
Fire River Gold Corp. (Mystery Creek Resources, Inc.)	Nixon Fork Mine	do.	Yukon-Koyukuk (CA).
Hecla Mining Co.	Greens Creek Mine	Zinc	Do.
Sumitomo Metal Mining Co.	Pogo Mine	do.	Southeast Fairbanks (CA).
Arkansas			
Unimin Corp.	Guion Mine	Sand and gravel, industrial	Izard.
California			
French Gulch Nevada Mining Corp.	Washington Mine[4]	Gold	Shasta.
North Bay Resources, Inc.	Ruby Mine	do.	Sierra.

State and Company	Operation[1]	Commodity[2]	County
California (continued)			
Searles Valley Minerals, Inc.	Argus	Salt	San Bernardino.
Colorado			
Coal Creek Construction	Golden Wonder	Gold	Clear Creek.
Freeport-McMoRan Copper & Gold, Inc.	Henderson Mine	Molybdenum	Do.
Georgia			
Carmeuse Lime & Stone	Cisco Mine	Stone, crushed	Murray.
Do.	Marble Hill Mine	do.	Gilmer.
J.M. Huber Corp.	Miss Linda Mine	do.	Pickens.
Imerys S.A.	New York Mine	do.	Do.
	Whitestone Mine #4	do.	Do.
Idaho			
Greyhound Mine & Milling, Inc.	Golden Eagle[4]	Gold	Ada.
Hecla Mining Co.	Lucky Friday	Silver	Shoshone.
Americas Silver Corp.	Galena Complex	do.	Do.
Illinois			
Fred Weber, Inc.	Bluff City Minerals	Stone, crushed	Madison.
Do.	Mississippi Lime Co- Prairie du Rocher	do.	Randolph.
Mining International, LLC	POWC Mine	do.	Will.
J.M. Huber Corp.	Quincy Mine	do.	Adams.
Lafarge North America Inc.	Conco Western Stone	do.	Kane.
Do.	RS&D Mine	do.	Do.
Do.	JS&G Underground Mine	do.	Will.
Vulcan Materials Co.	Bartlett	do.	Cook.
Do.	Lemont	do.	Will.
Indiana			
Martin Marietta Aggregates	Kokomo Mine	Stone, crushed	Howard.
Do.	Kentucky Avenue Mine	do.	Marion.
Do.	Noblesville Stone	do.	Hamilton.
Mulzer Crushed Stone, Inc.	Cape Sandy Underground	do.	Crawford.
Rogers Group, Inc.	Bloomington Underground Mine	do.	Monroe.
Iowa			
Bruening Rock Products, Inc.	S&S Quarry	Stone, crushed	Marion.
Douds Stone, Inc.	Douds Mine	do.	Van Buren.
Martin Marietta Aggregates	Ames Mine	do.	Story.
Do.	Fort Dodge Mine	do.	Webster.
Do.	Malcom Mine	do.	Poweshiek.
Do.	Sully Mine	do.	Jasper.
McCarthy-Bush Corp.	Linwood Mine	do.	Scott.
River Products Co., Inc.	Columbus Junction Mine	do.	Louisa.
USG Corp.	Sperry Mine	Gypsum, crude	Des Moines.
Kansas			
Compass Minerals International, Inc.	Lyons	Salt	Rice.
Georgia-Pacific, LLC	Blue Rapids Mine	Gypsum, crude	Marshall.
Hutchinson Salt Co.	Hutchinson Salt Mine	Salt	Reno.
Independent Salt Co.	Independent Salt Mine	do.	Ellsworth.

See footnotes at end of table.

State and Company	Operation[1]	Commodity[2]	County
Kansas (continued)			
Lyons Salt Co.	Lyons Salt Mine	do.	Rice.
Occidental Chemical Corp.	Witchita	do.	Sedgwick.
Servaes Quarry Co., Inc.	Atchison Quarry	Stone, crushed	Atchison.
Kentucky			
Allen Co., Inc., The	Boonesboro Quarry	Stone, crushed	Madison.
Do.	Lexington Quarry	do.	Jessamine.
Carmeuse Lime & Stone	Black River Quarry	do.	Pendleton.
Do.	Maysville Mine	do.	Mason.
Dix River Stone Co.	Dix River Mine	do.	Garrard.
Harrod Concrete and Stone Co.	Glenns Creek Mine	do.	Franklin.
Houchen Industries, Inc.	Grayson Quarry	do.	Grayson.
Lehigh Hanson, Inc.	Mt. Vernon Mine	do.	Rockcastle.
Do.	Tyrone Mine	do.	Anderson.
Liter's, Inc.	Lockport Mine	do.	Henry.
Nally & Gibson Georgetown, LLC	Georgetown Quarry	do.	Scott.
Rogers Group, Inc.	Jefferson County Stone	do.	Jefferson.
Do.	Oldham County Stone	do.	Oldham.
Do.	Princeton Mine	do.	Caldwell.
Sterling Ventures, LLC	Sterling Materials Mine	do.	Gallatin.
Summit Materials, LLC	Bourbon Mine	do.	Bourbon
Vulcan Materials Co.	Central (KY)	do.	Fayette.
Do.	Richmond Road	do.	Do.
Yager Materials, LLC	Riverside Stone Mine	do.	Meade.
Louisiana			
Axiall Corp.	Lake Charles	Salt	Calcasieu.
Boardwalk Lousiana Midstream LLC	Salt Mine	do.	Iberville.
Cargill, Inc.	Avery Island Mine	do.	Iberia (P).
Compass Minerals International, Inc.	Cote Blanche Mine	do.	St. Mary (P).
Morton International, Inc.	Weeks Island Mine	do.	Iberia (P).
Olin Corp.	Iberville	do.	Iberville.
PB Energy Storage, Inc.	Grand Bayou	do.	Ascension.
Texas Brine Corp.	Vulcan	do.	Assumption.
Do.	Plaquemine	do.	Do.
Do.	Chacahoula	do.	LaFourche.
Do.	Convent	do.	St. James.
Maryland			
Maryland Materials, Inc.	Thayerville Mine	Stone, crushed	Garrett.
Michigan			
Cargill, Inc.	St. Clair	Salt	St. Claire.
Kissner Group Holdings LP, The	Detroit Mine	do.	Wayne.
Morton International, Inc.	Manistee	do.	Manistee.
Lundin Mining Corp.	Eagle Mine Project[4]	Nickel	Marquette.
Missouri			
Doe Run Resources Corp.	Viburnum #35 Mine	Lead	Iron.
Do.	Brushy Creek Mine	do.	Reynolds.
Do.	Buick Mine	do.	Iron.
Do.	Fletcher Mine	do.	Reynolds.
Do.	Sweetwater Mine	do.	Do.

See footnotes at end of table.

State and Company	Operation[1]	Commodity[2]	County
Missouri (continued)			
Doe Run Resources Corp.	Viburnum #29 Mine	Lead	Washington.
Eagle Materials Inc.	Sugar Creek	Stone, crushed	Jackson.
Fred Weber Inc.	New Melle	do.	Lincoln.
Martin Marietta Aggregates	Parkville Quarry	do.	Platte.
Do.	Randolph Deep Mine	do.	Clay.
Do.	Stamper Underground	do.	Platte.
Mississippi Lime Co.	Ste. Genevieve	do.	Ste. Genevieve.
Summit Materials, LLC	Hannibal Underground	do.	Ralls.
Table Rock Asphalt Construction Co., Inc.	Quarry #1	do.	Taney.
Montana			
Stillwater Mining Co.	East Boulder Mine	Platinum-group metals	Sweet Grass.
Do.	Stillwater Mine	do.	Stillwater.
Nebraska			
Kerford Limestone Co.	Kerford Quarry	Stone, crushed	Cass.
Martin Marietta Aggregates	Weeping Water Mine	do.	Do.
PCS Phosphate Co., Inc.	PCS Phosphate Co., Inc. Mine	Phosphate Rock	Do.
Nevada			
Barrick Gold Corp. (Newmont Mining Corp.)	Turquoise Ridge Mine	Gold	Humboldt.
Barrick Gold Corp.	Cortez Operations	do.	Lander.
Klondex Gold and Silver Mining, Co.	Midas Operations	Silver.	Elko.
Huck Salt Co.	Fallon	Salt	Churchill.
Imperials Metals Corp.	Sterling	Gold	Nye.
Newmont Mining Corp.	Nevada Operations (multiple mines)	do.	Elko and Eureka.
Small Mine Development LLC	Chukar[4]	do.	Do.
Veris Gold Corp.	Jerritt Canyon Complex: [4] Lee Smith Mine SSX Mine Starvation Canyon Mine	do.	Elko.
New Mexico			
Intrepid Potash, Inc.	East Mine	Potash	Eddy.
Do.	West Mine	do.	Do.
New York			
American Rock Salt Co., LLC	Hampton Corners Mine	Salt	Livingston.
Cargill, Inc.	Cayuga Mine	do.	Tompkins.
Do.	Watkins Glen	do.	Schuyler.
PB Energy Storage, Inc.	Dale Brine	do.	Wyoming.
Peckham Industries, Inc.	Wingdale Mine	Stone, crushed	Dutchess.
Texas Brine Corp.	Niach	Salt	Wyoming.
Ohio			
Arch Materials, LLC	Batavia Mine	Stone, crushed	Clermont.
Cargill, Inc.	Cleveland Mine	Salt	Cuyahoga.
East Fairfield Coal Co., Limestone Division	Petersburg Mine	Stone, crushed	Mahoning.
	Subtropolis Mine	do.	Do.
Morton International, Inc.	Fairport Mine	Salt	Lake.
Oldcastle Materials, Inc.	Columbus Limestone	Stone, crushed	Muskingum.

See footnotes at end of table.

State and Company	Operation[1]	Commodity[2]	County
Ohio (continued)			
Do.	Fultonham	do.	Franklin.
Oklahoma			
United States Lime & Minerals, Inc.	St. Clair Mine	Stone, crushed	Sequoyah.
Pennsylvania			
Bradys Bend Corp.	Kaylor #3 Mine	Stone, crushed	Armstrong.
Coolspring Stone Supply, Inc.	Coolspring Mining Inc.	do.	Fayette.
Garrett Limestone, Inc.	Romesburg Quarry	do.	Somerset.
Graymont Ltd.	Pleasant Gap	do.	Centre.
Keystone Lime Co., Inc.	Eichorn Mine	do.	Somerset.
Lehigh Hanson, Inc.	Rich Hill Underground Mine	do.	Fayette.
Do.	Springfield Pike Mine	do.	Do.
Do.	Torrance Mine	do.	Westmoreland.
Do.	Whitney Plant	do.	Do.
M&M Lime Co., Inc.	M&M Lime Co., Inc. Mine	do.	Armstrong.
Oldcastle Materials, Inc.	Thomasville Quarry	do.	York.
VantaCore Partners LP	Lake Lynn Quarry	do.	Fayette.
Tennessee			
Carmeuse Lime & Stone	Chesney Underground	Stone, crushed	Union.
Lhoist North America	Anderson Mine	do.	Franklin.
Do.	Crab Orchard Mine	do.	Cumberland.
Nyrstar NV	East Tennessee Zinc Complex: Coy Mine Immel Mine Young Mine	Zinc	Jefferson and Knox.
Do.	Mid-Tennessee Zinc Complex: Cumberland Elmwood Gordonsville Mines	do.	Smith.
Vulcan Materials Co.	Richard City	Stone, crushed	Marion.
Texas			
Corpus Christi Brine Services, Inc.	Corpus Christi	Salt	Duval.
J.M. Huber Corp.	Michel Mine	Stone, crushed	Burnet.
Morton International, Inc.	Grand Saline Salt Mine	Salt	Van Zandt.
Olin Corp.	Freeport	do.	Brazoria.
Texas Architectural Aggregate, Inc.	White Canyon Mine	Stone, crushed	Culberson.
Texas Brine Corp.	Clemville	Salt	Matagorda.
Do.	Jefferson	do.	Jefferson.
Do.	Pierce Junction	do.	Harris.
United Salt Corp.	Hockley Salt Mine	do.	Do.
Utah			
Great Salt Lake Minerals	Ogden	Magnesium Compounds	Weber.
Intrepid Mining LLC	Moab	Potash	Grand.
Do.	Wendover	do.	Tooele.
Moab Salt	Grand City	Salt	Grand.
Virginia			
Lhoist North America	Kimballton Plant #1	Stone, crushed	Giles.
Washington			
Crown Resources	Buckhorn	Gold	Okanogan.
Kinross Gold Corp.	Kettle River-Buckhorn Mine	do.	Do.

See footnotes at end of table.

State and Company	Operation[1]	Commodity[2]	County
Washington (continued)			
Teck Resources, Ltd.	Pend Oreille Mine[4]	Zinc	Pend Oreille.
West Virginia			
Axiall Corp.	Natrium	Salt	Marshall.
Greer Industries, Inc.	Cheat River Limestone Mine	Stone, crushed	Preston.
Do.	Decker's Creek	do.	Monongalia.
Do.	Greer Limestone Mine	do.	Do.
Martin Marietta Aggregates	Burning Springs Mine	do.	Wood.
Wisconsin			
Wisconsin Industrial Sand, LLC	Maiden Rock Mine	Sand and gravel, industrial	Pierce.
Wyoming			
Black Hills Bentonite LLC	Mills Plant	Clays	Johnson.
Ciner Wyoming, LLC	Big Island Mine	Soda Ash	Sweetwater.
Solvay Chemicals, Inc. (Asahi Glass Co.)	Green River Mine (Solvay)	do.	Do.
Tata Chemicals [Soda Ash] Partners (Owens-Illinois, Inc.)	Tata Chemicals Mine	do.	Do.
Genesis Alkali, LLC	Granger Mine	do.	Do.
Do.	Green River	do.	Do.

Do., do. Ditto.
[1]Includes operations with production from brine wells and solution mining.
[2]Primary product of a mine or operation (highest total value for the year).
[3]In Alaska, Borough (B) and Census Area (CA) and Louisiana, Parish (P) names are used instead of County names.
[4]Development or exploration project.

Sources: U.S. Geological Survey and U.S. Department of Labor, Mine Safety and Health Administration (MSHA).

APPENDIX M

Plan Maintenance Checklist

We are in the process of conducting our annual evaluation/status update for our Multi-Jurisdictional Hazard Mitigation Plan. Please review the following tasks and complete and return this checklist along with the necessary forms. If you have any questions, please let us know.

Jurisdiction: _____

Prepared By: _____

Title: _____ Date: _____

TASK 1: DAMAGE INFORMATION

Has your jurisdiction sustained any natural hazard-related damages to critical facilities and infrastructure within the last year?

☐ Yes ☐ No ☐ Don't Know

If Yes, please complete and return the attached critical facilities damages questionnaire.

TASK 2: STATUS OF EXISTING PROJECTS/ACTIVITIES

Please look over the attached Mitigation Action Tables for your jurisdiction and determine whether any of the mitigation projects/activities listed have been completed or are in progress (in the planning stages.)

Does your jurisdiction have any mitigation projects/activities in progress (in the planning stages) or completed?

☐ Yes ☐ No

If Yes, please fill out and return the attached Mitigation Action Progress Report for each project/activity that has been completed or is in progress.

Has your jurisdiction undergone any changes in priorities within the last 12 months that would impact the implementation of the listed mitigation projects/activities?

☐ Yes ☐ No

If yes, please detail the changes in priorities.

_____

_____

_____

Plan Maintenance Checklist

TASK 3: IDENTIFICATION OF NEW PROJECTS/ACTIVITIES

Are there any new mitigation projects/activities your jurisdiction would like to see add to the Plan? (Remember, only projects included in the Plan are potentially eligible for federal mitigation projects funding.)

☐ Yes ☐ No

If yes, please complete and return the attached New Mitigation Project Form.

TASK 4: JURISDICTION EVALUATION

Have there been any significant changes in development in your jurisdiction within the last 12 months (i.e. expansion of existing businesses, siting of new businesses, new subdivision development, or expansion of existing subdivisions, demolition of businesses/residents to create green spaces, etc.)

☐ Yes ☐ No

If yes, please specify the type of development changes.

Has your jurisdiction adopted any new/updated policies, plans, regulations, or reports (i.e., comprehensive plans, building codes, zoning ordinance, etc.) that could be incorporated into this Plan?

☐ Yes ☐ No

If yes, please provide the name of the policy, plan, regulation, or report and its purpose.

Were any components of the Hazard Mitigation Plan (i.e., mitigation actions, vulnerability analyses, etc.) integrated into any new/updated policies, plans, regulations, or reports (i.e., comprehensive plans, building codes, zoning ordinance, etc.)?

☐ Yes ☐ No

If yes, please provide the name of the policy, plan, regulation, or report and what component(s) of the hazard mitigation plan were integrated.

Plan Maintenance Checklist

TASK 4: JURISDICTION EVALUATION CONTINUED…

Do any new critical facilities or infrastructure need to be added to your jurisdiction's Critical Facilities Survey?

☐ Yes ☐ No

If yes, please provide the name and address of the facility.

What are your plans for sharing information on the Plan and its annual progress with your jurisdiction and constituents (i.e., informal presentation at board/council meeting, posting update to social media or website, etc.)?

Critical Facilities Damage Questionnaire

Supplemental information about ***damages to critical infrastructure/facilities*** (i.e., government buildings, schools, communication towers and radio equipment, water & sewer treatment facilities, hospitals, medical centers, etc.) that have ***taken place*** in the participating jurisdictions and County is needed for the risk assessment/vulnerability analysis portion of the Plan. If you could take a moment and think about the critical infrastructure damages caused by past natural hazard occurrences and provide any available information in the form below, it would be greatly appreciated.

Please complete <u>one record</u> for <u>each natural hazard event that damaged a critical facility</u>. Do not combine multiple events on one record. Additional forms are located on the back of this page. Please return the completed form(s) to Andrea or Zak. Thank you!

Jurisdiction: _____

Prepared By: _____ Date: _____

1.) Date of Event (month/day/year if possible)**:** _____

2.) Critical Facility Damaged: _____

3.) Type of Hazard:

☐ thunderstorm (straight-line winds)	☐ tornado	☐ landslide
	☐ snow storm	☐ sinkhole
☐ hail	☐ ice storm	☐ mine subsidence
☐ lightning strike	☐ extreme cold	☐ earthquake
☐ heavy rain	☐ drought	☐ levee failure
☐ flood	☐ excessive heat	☐ dam failure

4.) Types of Damages: _____

_____

5.) Estimate of Damages: $ _____

Mitigation Action Progress Report

As part of the Plan Maintenance "monitoring" phase, the implementation status of each project and activity listed in the Plan for the participating jurisdictions needs to be identified.

1) Please review the Mitigation Action Tables provided for your jurisdiction to determine whether any of the projects/activities listed have been ***"Completed"*** or are ***"In Progress"*** (in the planning stages.)
2) For each project or activity that is ***"Completed"*** or "***In Progress"***, please fill out the following Progress Report.

Jurisdiction: _____

Prepared By: _____

Title: _____ Date: _____

Progress Report Period	From Date: To Date:
Project/Activity Description	
Responsible Agency	
Project Status	☐ In Progress ☐ Approved by Council/Board ☐ Included in Capital Improvement Plan/Slated for Construction & Implementation ☐ Grant Completed & Submitted ☐ Letting/Contractor Selected ☐ Notice to Proceed Issued ☐ Construction Underway ☐ Anticipated Completion Date: _____ ☐ Other (please specify): _____ ☐ Completed ☐ Project Delayed ☐ Project Cancelled

SUMMARY OF PROJECT PROGRESS FOR THIS REPORT PERIOD

What was accomplished during this reporting period for this project?

Were any obstacles, problems or delays encountered?	☐	Yes	☐	No	☐ Don't Know
If Yes, please describe:					

If the project was delayed, is it still relevant?	☐	Yes	☐	No	☐ Don't Know
If Yes, should the project be changed/revised?					

Other comments:

New Hazard Mitigation Projects Form
Multi-Jurisdictional Hazard Mitigation Plan

Participating Jurisdiction _____

Prepared by: _____

Title _____ Date: _____

	Project Description	Position/Organization Responsible for Implementation & Administration of the Project *(i.e. Mayor / City Council; Public Works Director; Fire Chief / Board of Trustees)*	Time Frame to Complete the Project *(i.e. 1 year; 5 years; 2-5 years)*
1.			
2.			
3.			
4.			

APPENDIX N

MADISON COUNTY CLERK'S OFFICE

Linda A. Andreas, County Clerk/Recorder

P. O. BOX 218 – 157 N. MAIN STREET STE 109
EDWARDSVILLE, IL 62025
PHONE (618) 692-6290 FAX (618) 692-8903

COUNTY VOTERS
REGISTRATION OFFICER
CLERK OF COUNTY BOARD

`

MEMO

DATE: October 16, 2025

TO: Emergency Management Agency

FROM: Linda Andreas
County Clerk

RE: Madison County Board Meeting

Enclosed please find certified copies of Resolutions and/or Ordinances, which were adopted by the Madison County Board at its meeting on October15,2025 as follows:

1. A Resolution of Madison County Adopting the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

LAA/crp
Enclosure

STATE OF ILLINOIS)
SS
COUNTY OF MADISON)

I, Linda A. Andreas, County Clerk in and for said County, in the State aforesaid, and keeper of the records and files thereof, as provided by statute, do hereby certify the foregoing to be a true, perfect and complete copy of a resolution and/or ordinance adopted by the County Board of Madison County, at its regular meeting held at Edwardsville, October 15, 2025.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seal of said County at my office in Edwardsville, in said County, this 15 day of October 2025.



Linda A Andreas

County Clerk and Clerk of the
Madison County Board

MADISON COUNTY, ILLINOIS

Resolution No. 2025-08

A RESOLUTION OF MADISON COUNTY ADOPTING THE 2025 MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

WHEREAS: the Public Safety committee and the county board of Madison County recognize the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Madison County; and

WHEREAS: Madison County has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS: the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Madison County from the impacts of future hazards and disasters; and

WHEREAS: adoption by Madison County demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY MADISON COUNTY, ILLINOIS, THAT:

The Public Safety committee and the county board of Madison County adopts the 2025 Madison County multi-jurisdictional all hazards mitigation plan and agrees to participate in the annual maintenance and evaluation of the plan.

ADOPTED BY:

s/ Terry Eaker
Public Safety Committee Certification of Votes
October 15, 2025

Terry Eaker	**AYE✓ NAY☐ ABSTAIN☐**
Valerie Doucleff	**AYE☐ NAY☐ ABSTAIN☐**
Linda Ogden	**AYE✓ NAY☐ ABSTAIN☐**
Bill Stoutenborough	**AYE✓ NAY☐ ABSTAIN☐**
Chrissy Wiley	**AYE✓ NAY☐ ABSTAIN☐**
Bob Meyer	**AYE✓ NAY☐ ABSTAIN☐**
Alison Lamothe	**AYE✓ NAY☐ ABSTAIN☐**
Ron Simpson	**AYE✓ NAY☐ ABSTAIN☐**

Village of Alhambra, Illinois

Resolution No. 2-2025

A Resolution of Village of Alhambra adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Village of Alhambra recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Village of Alhambra; and

WHEREAS the Village of Alhambra has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Village of Alhambra from the impacts of future hazards and disasters; and

WHEREAS adoption by the Village of Alhambra demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY Village of Alhambra, ILLINOIS, THAT:

The (Village of Alhambra adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 6 in favor and 0 against, and 0 abstaining, this 8th day of September, 2025.

CERTIFIED by _____ Mayor
(NAME & TITLE)

ATTESTED by _____ Clerk
(NAME & TITLE)

A RESOLUTION OF THE CITY OF ALTON ADOPTING THE 2025 MADISON COUNTY MULTI-JURSIDICTIONAL ALL HAZARDS MITIGATION PLAN

WHEREAS the City of Alton recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the City of Alton; and

WHEREAS the City of Alton has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the City of Alton from the impacts of future hazards and disasters; and

WHEREAS adoption by the City of Alton demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY THE CITY OF ALTON, ILLINOIS, that:

The City of Alton adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

Christopher L Baker

ALDERPERSON

FILED SEP 10 2025

FILED SEP 24 2025

Alton Community Unit School District No. 11, Illinois

Resolution No. _____

A Resolution of Alton Community Unit School District No. 11 adopting the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Alton Community Unit School District No. 11 recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Alton Community Unit School District No. 11; and

WHEREAS the Alton Community Unit School District No. 11 has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the Alton Community Unit School District No. 11 from the impacts of future hazards and disasters; and

WHEREAS adoption by the Alton Community Unit School District No. 11 demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY Alton Community Unit School District No. 11 ILLINOIS, THAT:

The Alton Community Unit School District No. 11 adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 7 in favor and 0 against, and 0 abstaining, this 16th day of September 2025.

CERTIFIED by _____
Christina M. Milien,
Board President

ATTESTED by Vivian L Monckton
Vivian Monckton,
Board Secretary

A RESOLUTION OF AMERICA'S CENTRAL PORT ADOPTING THE
2025 MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARD MITIGATION PLAN

WHEREAS, the America's Central Port District ("Port") is a municipal corporation and body politic organized and existing pursuant to its enabling legislation, 70 ILCS 1860/1 et seq.; and

WHEREAS, the Port recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes, among others, pose to people and property within America's Central Port Jurisdiction; and

WHEREAS, the Port has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan, in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS, the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in America's Central Port Jurisdiction from the impacts of future hazards and disasters; and

WHEREAS, adoption by America's Central Port demonstrates its commitment to hazard mitigation and achieving the goals outlined in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW, THEREFORE, BE IT RESOLVED BY THE BOARD OF COMMISSIONERS OF AMERICA'S CENTRAL PORT DISTRICT:

1. The America's Central Port Board of Commissioners adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

2. That the Executive Director and Port Engineer are authorized to execute all associated contract documents related to the plan for the performance of the Work.

PASSED this 10th day of November, 2025.
APPROVED this 10th day of November, 2025.

ATTEST:

Chairman

Secretary

Anderson Hospital, Maryville, Illinois

Resolution No. _____

A Resolution of Anderson Hospital adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Anderson Hospital Emergency Preparedness Committee recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Anderson Hospital campus; and

WHEREAS the Anderson Hospital has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Anderson Hospital from the impacts of future hazards and disasters; and

WHEREAS adoption by the Anderson Hospital demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE RESOLVED BY Anderson Hospital, Maryville, ILLINOIS, THAT:

The Anderson Hospital Emergency Preparedness Committee adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 25 in favor and 0 against, and 0 abstaining, this 26th day of September, 2025.

CERTIFIED by _____
Eric Brandmeyer
Director, EMS &
Emergency
Preparedness

ATTESTED by _____
Kenneth Pankow, Chief
of Facilities Management

Bethalto CUSD #8 Illinois

Resolution No. _____

A Resolution of Bethalto CUSD #8 adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Bethalto Board of Education recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the Bethalto School District and

WHEREAS the has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Bethalto CUSD #8 from the impacts of future hazards and disasters; and

WHEREAS adoption by the Bethalto CUSD #8 demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY Bethalto CUSD #8, ILLINOIS, THAT:

The Bethalto Board of Education adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 7 in favor and 0 against, and 0 abstaining, this 18 day of December, 2025.

CERTIFIED by (SIGNATURE) _____
(NAME & TITLE) Todd Meiser, Board President

ATTESTED by (SIGNATURE) _____
(NAME & TITLE) Jill Griffin, Superintendent

Madison County Regional Office of Education, Illinois

Resolution No. 1

A Resolution of Madison County Regional Office of Education adopting the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Madison County Regional Office of Education recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Madison County; and

WHEREAS the Madison County Regional Office of Education has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Madison County from the impacts of future hazards and disasters; and

WHEREAS adoption by the Madison County Regional Office of Education demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY MADISON COUNTY REGIONAL OFFICE OF EDUCATION, ILLINOIS, THAT:

The Madison County Regional Office of Education adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED, this 20 day of October, 2025.

CERTIFIED by _____
Dr. Robert W. Werden Regional Superintendent of Schools

ATTESTED by Dr. Tricia C Blackard
Dr. Tricia C. Blackard Regional Assistant Superintendent of Schools

CITY OF COLLINSVILLE, ILLINOIS

RESOLUTION NO. 25-42R

A RESOLUTION OF THE CITY OF COLLINSVILLE, ILLINOIS ADOPTING THE 2025 MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

WHEREAS, the City Council of the City of Collinsville, Illinois recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the City of Collinsville; and

WHEREAS, the City of Collinsville has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended;

WHEREAS, the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the City of Collinsville from the impacts of future hazards and disasters; and

WHEREAS, adoption by the City of Collinsville demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW, THERFORE, BE IT RESOLVED BY CITY COUNCIL OF THE CITY OF COLLINSVILLE, ILLINOIS, that the City Council of the City of Collinsville, Illinois, hereby adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

PASSED by the City Council and approved by the Mayor on October 14, 2025.

Ayes: Seaton, Hausmann, Fuhrmann, Green, Stehman
Nays: None
Absent: None
Approved: October 14, 2025

Jeff Stehman, Mayor

ATTEST:

Kimberly Wasser, City Clerk

Collinsville, Illinois

A Resolution of Collinsville Community Unit School District No. 10 adopting the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Collinsville Community Unit School District No. 10 Board of Education recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the Collinsville Community Unit School District No. 10 communities; and

WHEREAS the Collinsville Community Unit School District No. 10 has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property within the Collinsville Community Unit School District No. 10 from the impacts of future hazards and disasters; and

WHEREAS adoption by the Collinsville Community Unit School District No. 10 Board of Education demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY Collinsville Community Unit School District No. 10 Board of Education, COLLINSVILLE, ILLINOIS, THAT:

The Collinsville Community Unit School District No. 10 Board of Education adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 7 in favor and 0 against, and 0 abstaining, this 22ND day of Sept, 2025.

CERTIFIED by Gary A Peccola
Gary A. Peccola, President

ATTESTED by Vicki M. Reulecke
Vicki Reulecke, Secretary

COLLINSVILLE TOWNSHIP RESOLUTION No. 2025-R12

A Resolution of COLLINSVILLE TOWNSHIP adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Township of Collinsville recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within COLLINSVILLE TOWNSHIP.

WHEREAS the Township of Collinsville has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in COLLINSVILLE TOWNSHIP from the impacts of future hazards and disasters; and

WHEREAS adoption by the Township of Collinsville demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED by the Board of Trustees of Collinsville Township to adopt the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and therefore agrees to participate in the annual maintenance and evaluation of the Plan.

PASSED this 10th day of **SEPTEMBER 2025**, by the Board of Trustees of Collinsville Township, Madison County, Illinois.

Roll Call Vote			
Mike Prosser, Trustee	Aye X	Nay _____	Absent _____
Clinton Ball, Trustee	Aye X	Nay _____	Absent _____
Brad Sewell, Trustee	Aye X	Nay _____	Absent _____
Margot Crowell, Trustee	Aye X	Nay _____	Absent _____
Derrick Keith Cox, Supervisor	Aye X	Nay _____	Absent _____

Adopted this 10th day of **SEPTEMBER 2025**.

COLLINSVILLE TOWNSHIP
MADISON COUNTY, IL

Derrick Keith Cox, Supervisor

James W Achenbach, Clerk

Resolution No. 2025-14

A RESOLUTION AUTHORIZING THE VILLAGE OF EAST ALTON TO ADOPT THE 2025 MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

WHEREAS, the President and the Board of Trustees of the Village of East Alton, Madison County, State of Illinois, recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the Village of East Alton: and

WHEREAS, the Village of East Alton has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS, the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Village of East Alton from the impacts of future hazards and disasters; and

WHEREAS, adoption by the Village of East Alton demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY THE PRESIDENT AND THE BOARD OF TRUSTEES OF THE VILLAGE OF EAST ALTON, MADISON COUNTY, STATE OF ILLINOIS, THAT:

SECTION 1: The President and the Board of Trustees of the Village of East Alton, Madison County, State of Illinois adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED this 2nd day of September 2025, pursuant to a roll call vote by the Board of Trustees of the Village of East Alton, Madison County, Illinois.

APPROVED:

Darren Carlton, President
Village of East Alton, Illinois

Approved by the following vote:

	AYES	NAYS		AYES	NAYS
Walter A. Hale III	X		Kelli Fletcher	X	
Debra Angleton	X		Stanley Foiles	X	
Dennis R. Weber	X		Mark Brumley	Absent	

ATTEST:

Lori Palmer

Lori Palmer, Village Clerk
Village of East Alton, Illinois

RESOLUTION NO. 104-12-2025

RESOLUTION AUTHORIZING ADOPTING 2025 MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

WHEREAS, the Edwardsville City Council recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Edwardsville; and

WHEREAS, the City of Edwardsville has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS, the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Edwardsville from the impacts of future hazards and disasters; and

WHEREAS, adoption by the City of Edwardsville demonstrates its commitment to hazard mitigation and achieving the goals outlined in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW, THEREFORE BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY COUNCIL OF EDWARDSVILLE, MADISON COUNTY, ILLINOIS, that:

The City of Edwardsville City Council has reviewed and hereby approves by two-thirds majority vote the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan:

PASSED BY THE CITY COUNCIL OF THE CITY OF EDWARDSVILLE, ILLINOIS, this 16th day of December 2025 pursuant to a roll call vote as follows:

AYES: MIRACLE, MORRISON, KRAUSE, WARREN, GRANT, FARRAR and HANNA
NAYES:
ABSTENTION:
ABSENT:

APPROVED BY THE MAYOR OF THE CITY OF EDWARDSVILLE, ILLINOIS, this 16th day of December 2025.

BY: _____
Art Risavy, Mayor
City of Edwardsville
Madison County, Illinois

ATTESTED:

Filed in my office this 16th day of December 2025

BY: _____
Michelle A. Boyer, City Clerk
City of Edwardsville
Madison County, Illinois

Edwardsville Community Unit School District #7, Illinois

Resolution No. _____

A Resolution of Edwardsville Community Unit School District #7 adopting the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Edwardsville Community Unit School District #7 Board of Education recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Edwardsville Community Unit School District #7 and

WHEREAS the Edwardsville Community Unit School District #7 has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Edwardsville Community Unit School District #7 from the impacts of future hazards and disasters; and

WHEREAS adoption by the Edwardsville Community Unit School District #7 demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY EDWARDSVILLE COMMUNITY UNIT SCHOOL DISTRICT #7, ILLINOIS, THAT:

The Edwardsville Community Unit School District #7 Board of Education adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 7 in favor and 0 against, and 0 abstaining, this 22nd day of September 2025.

CERTIFIED by _____
Robert Paty
Board President

ATTESTED by _____
Matt Breihan
Board Secretary

Edwardsville Township Road & Bridge Edwardsville, Illinois

Resolution No. 2025R02

A Resolution Adopting the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Edwardsville Township Road & Bridge recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Edwardsville Township.

WHEREAS the Edwardsville Township Road & Bridge has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Edwardsville Township from the impacts of future hazards and disasters; and

WHEREAS adoption by Edwardsville Township Road & Bridge demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY EDWARDSVILLE TOWNSHIP ROAD & BRIDGE, EDWARDSVILLE, ILLINOIS, THAT:

The Edwardsville Township Road & Bridge adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 5 in favor and 0 against, and 0 abstaining, this 16th Day of September 2025.

CERTIFIED by _____
Danny Picarella
Highway Commissioner

ATTESTED by _____
David Schwind
Township Clerk

Village of Glen Carbon, Illinois

Resolution No. 2025-60

A Resolution of the Village of Glen Carbon adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Village of Glen Carbon recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the Village of Glen Carbon; and

WHEREAS the Village of Glen Carbon has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the Village of Glen Carbon from the impacts of future hazards and disasters; and

WHEREAS adoption by the Village of Glen Carbon demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY THE VILLAGE OF GLEN CARBON, ILLINOIS, THAT:

The Village of Glen Carbon Village Board adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 6 in favor and 0 against, and 0 abstaining, this 14 day of October 2025.

CERTIFIED by _____
Robert P. Marcus, Mayor
Village of Glen Carbon

ATTESTED by _____
Kathleen K. Scaturro, Clerk
Village of Glen Carbon

Glen Carbon Fire Protection District, Illinois

Resolution No. 25-235

A Resolution of (Glen Carbon Fire Protection District) adopting the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the (Glen Carbon Fire Protection District) recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes, among others, pose to people and property within the (Glen Carbon Fire Protection District) and

WHEREAS the (Glen Carbon Fire Protection District) has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in (Glen Carbon Fire Protection District) from the impacts of future hazards and disasters; and

WHEREAS adoption by the (Glen Carbon Fire Protection District) demonstrates its commitment to hazard mitigation and achieving the goals outlined in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED BY (Glen Carbon Fire Protection District), ILLINOIS, THAT:

The Glen Carbon Fire Protection District adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 4 in favor and Ø against, and Ø abstaining, this 26th day of August, 2025.

Certified by: _____ President
Frank Dunn

ATTESTED by: _____ Secretary
Ron Williams

Resolution No. 2025-16

A Resolution of the Village of Godfrey adopting the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Board of Trustees of the Village of Godfrey recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the Village of Godfrey; and

WHEREAS the Village of Godfrey has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the Village of Godfrey from the impacts of future hazards and disasters; and

WHEREAS adoption by the Village of Godfrey demonstrates its commitment to hazard mitigation and achieving the goals outlined in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY THE BOARD OF TRUSTEES OF THE VILLAGE OF GODFREY, ILLINOIS, THAT:

The Village of Godfrey adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

PASSED this 2nd day of September, 2025.

VOTING AYE: Woodman, Lauschke, M. Fisher, Lombardi, G. Fischer
VOTING NAY: None
ABSENT: McAtee
ABSTAINED:

APPROVED this 3rd day of September, 2025.

Michael McCormick – Village President

ATTESTED, Filed in my office,
And published in pamphlet form
This 3rd day of September, 2025.

Jacki Clayton, Godfrey Village Clerk (SEAL)

RESOLUTION NO. 2025-RES-062

A RESOLUTION OF THE CITY OF GRANITE CITY, ILLINOIS ADOPTING THE 2025 MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

WHEREAS, the City of Granite City (the "City") is a Home Rule unit pursuant to Article VII, Section 6, of the Illinois State Constitution of 1970; and

WHEREAS, the City recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the City of Granite City; and

WHEREAS, the City has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS, the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the City from the impacts of future hazards and disasters; and

WHEREAS, adoption by the City demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW, THEREFORE, BE IT HEREBY RESOLVED by the City Council of the City of Granite City, in the County of Madison, and State of Illinois, as follows:

The City of Granite City, Illinois adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

APPROVED this 16th day of September, 2025.

APPROVED: _____
Mayor M. Parkinson

ATTEST: _____
City Clerk Jenna DeYong

PG 2 OF 2 2025-RES-062

Village of Grantfork, Illinois

Resolution No. **2025.09.01R**

A Resolution of Village of Grantfork adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Village of Grantfork recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Village of Grantfork; and

WHEREAS the Village of Grantfork has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Village of Grantfork from the impacts of future hazards and disasters; and

WHEREAS adoption by the Village of Grantfork demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY Village of Grantfork, ILLINOIS, THAT:

The (Village of Grantfork adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

Roll Call Vote

Carla Crawford	Aye_____	Nay_____	Absent__X__
Wendy Reinacher-Heilig	Aye__X__	Nay_____	Absent_____
Nancy Schoen	Aye_____	Nay_____	Absent__X__
Ron Wildhaber	Aye__X__	Nay_____	Absent_____
Sydney Thole	Aye__X__	Nay_____	Absent_____
Katie Scott	Aye__X__	Nay_____	Absent_____

ADOPTED by a vote of 4 in favor and 0 against, and 0 abstaining, this 2 day of September, 2025.

CERTIFIED by Mayor Lucas Hallh
(NAME & TITLE)

ATTESTED by Teresa Tavora Village Clerk
(NAME & TITLE)

RESOLUTION 25-21

A RESOLUTION OF THE VILLAGE OF HAMEL, MADISON COUNTY, ILLINOIS ADOPTING THE 2025 MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

WHEREAS the Village of Hamel recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the Village of Hamel; and

WHEREAS the Village of Hamel has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the Village of Hamel from the impacts of future hazards and disasters; and

WHEREAS adoption by the Village of Hamel demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY THE VILLAGE OF HAMEL, ILLINOIS, THAT:

The Village of Hamel Board of Trustees adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

PASSED this 14th day of October, 2025.

NAME	AYE	NAY	ABSTAIN	ABSENT	CONFLICT
Goebel	X				
Otrembiak	X				
Recer	X				
Withers				X	
Poletti				X	
Sprinkle	X				

Approved by the President of the Village of Hamel, Madison County, Illinois, this 14th day of October 2025.

JUSTIN GERSTNER, PRESIDENT
HAMEL, ILLINOIS

ATTEST:

DEBBIE BELVILLE - VILLAGE CLERK
HAMEL, ILLINOIS
(SEAL)

VILLAGE OF HAMEL CORPORATE SEAL 02/24/1955 ILLINOIS

City of Highland, Illinois

RESOLUTION NO. 25-07-3211

A RESOLUTION OF CITY OF HIGHLAND ADOPTING THE 2025 MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

WHEREAS, the City of Highland recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within City of Highland; and

WHEREAS, the City of Highland has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS, the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in City of Highland from the impacts of future hazards and disasters; and

WHEREAS, adoption by the City of Highland demonstrates its commitment to hazard mitigation and achieving the goals outlined in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THEREFORE, BE IT RESOLOVED BY CITY OF HIGHLAND, ILLINOIS, THAT:

The City of Highland adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 4 in favor and 0 against, and 0 abstaining, this 21st day of July, 2025

CERTIFIED by _____
(Chris Conrad/City Manager)

ATTESTED by _____
(Chris Straub/Fire Chief)

Leef Township, Illinois

Resolution No. _____

A Resolution of Leef Township adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Leef Township Board recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Leef Township; and

WHEREAS the Leef Township has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Leef Township from the impacts of future hazards and disasters; and

WHEREAS adoption by the Leef Township demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY LEEF TOWNSHIP ILLINOIS, THAT:

The Leef Township Board adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 6 in favor and ___ against, and ___ abstaining, this 3 day of September, 2025.

CERTIFIED by _____
Olivia Abert, Clerk

ATTESTED by _____

Village of Livingston, Madison County, Illinois

RESOLUTION NO. 2025-3

A Resolution of Village of Livingston adopting the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS, the Village of Livingston recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the Village of Livingston; and

WHEREAS, the Village of Livingston has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; The National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS, the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the Village of Livingston from the impacts of future hazards and disasters; and

WHEREAS, adoption by the Village of Livingston demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED BY THE VILLAGE OF LIVINGSTON, ILLINOIS: that the Village of Livingston adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 6 in favor and 0 against, and 0 abstaining,

PASSED this 09 day of October, 2025.

CERTIFIED by Richard T Kovaly
Richard T. Kovaly, President

ATTESTED by Kirstyn R. Kreger
Kirstyn R. Kreger, Village Clerk

RESOLUTION NO. 25-17

A RESOLUTION OF THE CITY OF MADISON, ILLINOIS ADOPTING THE 2025 MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

WHEREAS, the City of Madison, Illinois, (the "City") is a municipal corporation organized and existing pursuant to the Illinois Municipal Code, 65 ILCS 5/3.1 et seq; and

WHEREAS, the City recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the City; and

WHEREAS, the City has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS, the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the City from the impacts of future hazards and disasters; and

WHEREAS, adoption by the City demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED BY THE MAYOR AND CITY COUNCIL OF THE CITY OF MADISON, ILLINOIS, AS FOLLOWS:

SECTION 1: The City of Madison, Illinois adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

PASSED by the City Council of the City of Madison, Illinois this 6th day of October, 2025.

APPROVED by the Mayor of the City of Madison, Illinois this 6th day of October, 2025.

JOHN W. HAMM, III
MAYOR

ATTEST:

CITY CLERK

VILLAGE OF MARINE, MADISON COUNTY, Illinois

Resolution No. 2025- 6

A Resolution of VILLAGE OF MARINE, MADISON COUNTY adopting the

WHEREAS the Village of Marine recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Village of Marine; and

WHEREAS the Village of Marine has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Village of Marine from the impacts of future hazards and disasters; and

WHEREAS adoption by the Village of Marine demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY Village of Marine, Madison County, ILLINOIS, THAT:

The Village of Marine, Madison County adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 6 in favor and 0 against, and 0 abstaining, this 3rd day of September, 2025.

CERTIFIED by _____
Darren Apken, President

ATTESTED by _____
Amber Kapp, Clerk

VILLAGE OF MARINE ORGANIZED APRIL 23 1888 ILLINOIS

Village of Maryville
2520 North Center Street
Maryville, Illinois 62062
Phone: (618) 345-7028
Fax: (618) 343-2843

Ordinance Number: _____
Resolution Number: 2025-26
Adopting the 2025 Madison County Multi-Jurisdictional all Hazards Mitigation Plan
Passed by the
Board of Trustees and
Approved by the President
of the Village of Maryville, Illinois
The 17th Day of September, 2025

Reviewed By
Village Attorney, Tonya Genovese
The Gori Law Firm
125 N. Buchanan Street
Edwardsville, IL 62025
(618) 659-9833

Return To:
Village of Maryville
Attn.: Village Clerk
2520 North Center Street
Maryville, Illinois 62062

Published in pamphlet form by the authority of the corporate authorities of the Village of Maryville, Madison County, Illinois, this 18th day of September, 2025.

RESOLUTION NO. 2025-26

A RESOLUTION OF THE VILLAGE MARYVILLE, ILLINOIS ADOPTING THE 2025 MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

WHEREAS, the Village of Maryville recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the Village; and

WHEREAS, the Village of Maryville has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS, the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the Village of Maryville from the impacts of future hazards and disasters; and

WHEREAS, adoption by the Village of Maryville demonstrates its commitment to hazard mitigation and achieving the goals outlined in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED by the President and Board of Trustees of the Village of Maryville, Illinois, that:

The Village of Maryville adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

PASSED AND APPROVED by the President and Board of Trustees of the Village of Maryville, Illinois this 17th day of September, 2025.

R. Todd Bell Yes Julie Clark _____ Larry Gulledge Yes

Gary Kukla Yes Rod Schmidt Yes Mike Vallino _____

Wayne White _____

Wayne White

WAYNE WHITE
President, Board of Trustees
Village of Maryville, Illinois

ATTEST:

Jolene R. Henry

JOLENE R. HENRY
Village Clerk

(SEAL)

VILLAGE OF MARYVILLE SEAL MARYVILLE, ILLINOIS

Metro East Sanitary District, Illinois

Resolution No. 2025-R-008

A Resolution of Metro East Sanitary District adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Metro East Sanitary District recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Metro East Sanitary District; and

WHEREAS the Metro East Sanitary District has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Metro East Sanitary District from the impacts of future hazards and disasters; and

WHEREAS adoption by the Metro East Sanitary District demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY METRO EAST SANITARY DISTRICT, ILLINOIS, THAT:

The Metro East Sanitary District adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of ✓ in favor and ___ against, and ___ abstaining, this 16 day of Sept, 2025.

CERTIFIED by _____
Michael Nordstrom
Executive Director

ATTESTED by _____
Stacy Partney
District Clerk

Nameoki Township, Illinois

Resolution No. 2025-4

A Resolution of Nameoki Township adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS Nameoki Township recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Nameoki Township; and

WHEREAS Nameoki Township has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Nameoki Township from the impacts of future hazards and disasters; and

WHEREAS adoption by Nameoki Township demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY NAMEOKI TOWNSHIP, ILLINOIS, THAT:

The Nameoki Township Board adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 5 in favor and 0 against, and 0 abstaining, this 25th day of November, 2025.

CERTIFIED by _____
John Eric Foster
Township Supervisor

ATTESTED by _____

OLIVE FIRE PROTECTION DISTRICT, Illinois

Resolution No. 1010

A Resolution of Olive Fire Protection District adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the OLIVE FIRE PROTECTION DISTRICT recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within OLIVE FIRE PROTECTION DISTRICT; and

WHEREAS the OLIVE FIRE PROTECTION DISTRICT has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property OLIVE FIRE PROTECTION DISTRICT from the impacts of future hazards and disasters; and

WHEREAS adoption by the OLIVE FIRE PROTECTION DISTRICT demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED OLIVE FIRE PROTECTION DISTRICT, ILLINOIS, THAT:

The OLIVE FIRE PROTECTION DISTRICT adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 3 in favor and 0 against, and 0 abstaining, this 8th day of September, 2025.

CERTIFIED by Kaitlynn Kingery
Kaitlynn Kingery
President

ATTESTED by Don Schwandner
Don Schwandner
Secretary

OSF Saint Anthony's Health Center, Illinois

Resolution No. _____

A Resolution of OSF Saint Anthony's Health Center adopting the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the OSF Saint Anthony's Health Center recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within OSF Saint Anthony's Health Center; and

WHEREAS the OSF Saint Anthony's Health Center has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in OSF Saint Anthony's Health Center from the impacts of future hazards and disasters; and

WHEREAS adoption by OSF Saint Anthony's Health Center demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY OSF Saint Anthony's Health Center, ILLINOIS, THAT:

The OSF Saint Anthony's Health Center adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of _X__ in favor and ___ against, and ___ abstaining, this Second day of September, 2025.

CERTIFIED by _____
Zach Yoder, President

ATTESTED by _____
Traci Bramanhum, Director of Emergency Services

Original

RESOLUTION NO. 25-020

A RESOLUTION OF THE VILLAGE OF PONTOON BEACH, ILLINOIS ADOPTING THE 2025 MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

WHEREAS, the Village of Pontoon Beach, Illinois (the "Village") recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the Village; and

WHEREAS, the Village has prepared an all-hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS, the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the Village from the impacts of future hazards and disasters; and

WHEREAS, adoption by the Village demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF PONTOON BEACH, ILLINOIS, AS FOLLOWS:

SECTION 1: The Village of Pontoon Beach, Illinois adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

SECTION2: This Resolution shall be in effect following its passage, approval and publication as provided by law.

SECTION 3: Any and all Resolutions, sections or subsections of Resolutions in conflict herewith are hereby repealed.

PASSED this 23rd day of September, 2025.

Name	Voting in Favor	Voting Against	Not Voting
Steve Freese - Trustee	X		
Terry Kreher - Trustee	X		
Linda McFarland - Trustee	X		
Kelly Rogers - Trustee	A		
Christie Vivod - Trustee	X		
Bret Ware - Trustee	X		
Mike Pagano - Mayor			

APPROVED this 23rd day of September, 2025.

MIKE PAGANO, PRESIDENT
Village of Pontoon Beach, Illinois

ATTEST:

HARLON D. KEEL, VILLAGE CLERK
Village of Pontoon Beach, Illinois

VILLAGE OF PONTOON BEACH
CORPORATE
SEAL
ILLINOIS

RESOLUTION NO: 25-16

A RESOLUTION OF ROXANA, ILLINOIS ADOPTING THE 2025 MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

WHEREAS, the Village of Roxana recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Roxana; and

WHEREAS, the Village of Roxana has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS, the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the Village of Roxana from the impacts of future hazards and disasters; and

WHEREAS, adoption by the Village of Roxana demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED BY THE PRESIDENT AND BOARD OF TRUSTEES OF THE VILLAGE OF ROXANA, ILLINOIS, AS FOLLOWS:

SECTION ONE: The Village of Roxana hereby adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

SECTION TWO: This Resolution shall be in effect following its passage, approval and publication as provided by law.

PASSED this 2nd day of September, 2025.

Roll Call Vote:

VOTING AYE:

Newberry	Cunningham
Kelly	Smith
John	Ward

RESOLUTION NO: 25-16

VOTING NAY:

_____ _____

_____ _____

ABSENT:

_____ _____

APPROVED by the President of the Village of Roxana, Illinois this 2nd day of September, 2025.

Marty Reynolds, Village President

ATTESTED, Filed in my office,
and published in pamphlet form
This 3rd day of September, 2025.

Kristi Carter, Roxana Village Clerk

Madison County, Illinois

Resolution No. _____

A Resolution of Roxana CUSD#1 adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Roxana CUSD#1 recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Roxana CUSD#1; and

WHEREAS the Roxana CUSD#1 has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Roxana CUSD#1 from the impacts of future hazards and disasters; and

WHEREAS adoption by the Roxana CUSD#1 demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY Roxana CUSD#1, ILLINOIS, THAT:

The Roxana CUSD#1 adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 5 in favor and 0 against, and 0 abstaining, this 25th day of November, 2025.

CERTIFIED by Patricia J. Devening
Pat Devening,
Board President

ATTESTED by Sherry Keller
~~Travis Mouser~~ Sherry Keller
Board Secretary

VILLAGE OF ST. JACOB, Illinois

Resolution No. 25-03

A Resolution of VILLAGE OF ST. JACOB adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the VILLAGE OF ST. JACOB recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within VILLAGE OF ST. JACOB; and

WHEREAS the VILLAGE OF ST. JACOB has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in VILLAGE OF ST. JACOB from the impacts of future hazards and disasters; and

WHEREAS adoption by the VILLAGE OF ST. JACOB demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY VILLAGE OF ST. JACOB, ILLINOIS, THAT:

The VILLAGE OF ST. JACOB adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of X in favor and ___ against, and ___ abstaining, this 17th day of September 2025.

CERTIFIED by Richard L. Schiefer
Richard L. Schiefer
Mayor

ATTESTED by Kathy Becker
Kathy Becker
Village Clerk

South Roxana, Illinois

A Resolution of South Roxana Fire Protection District adopting the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

WHEREAS the South Roxana Fire Protection District recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within South Roxana Fire Protection District; and

WHEREAS the South Roxana Fire Protection District has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in South Roxana Fire Protection District from the impacts of future hazards and disasters; and

WHEREAS adoption by the South Roxana Fire Protection District demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY South Roxana Fire Protection District, ILLINOIS, THAT:

The South Roxana Fire Protection District adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 3 in favor and 0 against, and 0 abstaining, this 15 day of Oct, 2025.

CERTIFIED by _____ President
(NAME; TITLE)

ATTESTED by _____ Secretary
(NAME; TITLE)

SOUTHERN ILLINOIS UNIVERSITY
EDWARDSVILLE

A Resolution of Southern Illinois University Edwardsville adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS Southern Illinois University Edwardsville recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Southern Illinois University Edwardsville; and

WHEREAS Madison County has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property at Southern Illinois University Edwardsville from the impacts of future hazards and disasters; and

WHEREAS adoption of the plan by Southern Illinois University Edwardsville demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED BY Southern Illinois University Edwardsville, ILLINOIS, THAT:

Southern Illinois University Edwardsville adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED administratively by,

_____
James T. Minor, Chancellor, SIUE

Date: November 19, 2025

Office of the Chancellor
t 618.650.2477 w siue.edu
a Rendleman Hall, Room 3316, Box 1151, Edwardsville, IL 62026-1151

CITY OF TROY, Illinois

Resolution No. 2025-26

A RESOLUTION OF THE CITY OF TROY ADOPTING THE 2025 MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

WHEREAS the City of Troy recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within The City of Troy; and

WHEREAS the City of Troy has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in City of Troy from the impacts of future hazards and disasters; and

WHEREAS adoption by the City of Troy demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY THE CITY OF TROY, ILLINOIS, THAT:

The CITY OF TROY COUNCIL adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 8 in favor and 0 against, and 0 abstaining, this 2nd day of SEPTEMBER, 2025.

CITY OF TROY ORGANIZED A.D. 1892 ILLINOIS

CERTIFIED by _____
David Nonn
Mayor, City of Troy, Illinois

ATTESTED by _____
Kimberly Thomas
City Clerk - Troy, Illinois

Troy, Illinois

Resolution No. 2025-01

A Resolution of Troy Fire Protection District adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the Troy Fire Protection District recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within Troy Fire Protection District; and

WHEREAS the Troy Fire Protection District has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in Troy Fire Protection District from the impacts of future hazards and disasters; and

WHEREAS adoption by the Troy Fire Protection District demonstrates its commitment to hazard mitigation and achieving the goals outlined in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED BY Troy Fire Protection District, ILLINOIS, THAT:

The Troy Fire Protection District adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote 5 in favor and 0 against, and 0 abstaining, this 17th day of September, 2025.

CERTIFIED by _____
Robert Hancock, Board President

ATTESTED by _____
Ronald Hahn, Board Secretary

City of Venice, Illinois

Resolution No. 25-08

A Resolution of the City of Venice, Illinois, adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS, the City Council of the City of Venice, Illinois recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the City of Venice, Illinois; and

WHEREAS, the City of Venice has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including Robert T. Staffford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Act, as amended; and

WHEREAS, the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the City of Venice, Illinois from the impacts of future hazards and disasters; and

WHEREAS, adoption by the City of Venice, Illinois demonstrates its commitment to hazard mitigation and achieving goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED BY the CITY COUNCIL OF THE CITY OF VENICE, ILLINOIS THAT:

The City Council of Venice, Illinois adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ALDERPERSON	AYE	NAY	ABSTAIN	ABSENT
Tyrone Echols	✓			
Randy Davis	✓			
Celestine Williams	✓			
Orzella Gregory	✓			

ALDERPERSON	AYE	NAY	ABSTAIN	ABSENT
Harold Wilson	✓			
Babette Mosby-Roshell	✓			
Anna Marie Nelson				
Gerald Massie, Sr.				✓

ADOPTED by a vote of 3 in favor and 0 against, and 1 ~~abstaining~~ Absent, this 5th day of October 2025.

CERTIFIED by: Barbara Harrell
Barbara Harrell, Clerk

ATTESTED by: Phillip A White Jr
Phillip A. White, Jr., Mayor

(SEAL)

RESOLUTION NO. 2137

A RESOLUTION OF THE CITY OF WOOD RIVER ADOPTING THE 2025 MADISION COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITIGATION PLAN

WHEREAS, the City of Wood River recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the City of Wood River; and

WHEREAS, the City of Wood River has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968 and the National Dam Safety Program Act, as amended; and

WHEREAS, the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the City of Wood River from the impacts of future hazards and disasters; and

WHEREAS, adoption by the City of Wood River demonstrates its commitment to hazard mitigation and achieving the goals outlined in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW, THEREFORE, BE IT RESOLVED BY THE CITY COUNCIL OF THE CITY OF WOOD RIVER, ILLINOIS:

Adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

Passed by the City Council of the City of Wood River, Illinois, and deposited and filed in the Office of the City Clerk, on the 15th day of September 2025, the vote being taken by ayes and noes, and entered upon the legislative records, as follows:

AYES: Ayres, Dettmers, Plank, Tweedy, Stalcup (5)
NOES: None (0)

APPROVED:

Tom Stalcup
Mayor
City of Wood River
Madison County, Illinois

ATTEST:

Danielle Sneed
City Clerk
City of Wood River
Madison County, Illinois

A RESOLUTION 2025-03

ADOPTING THE 2025 MADISON COUNTY MULTI-JURISDICTIONAL ALL HAZARDS MITITGATION PLAN

WHEREAS the Board of Commissioners of the Wood River Drainage and Levee District (the "***Board***"), the governing body of the Wood River Drainage and Levee District (the "***District***"), recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the District.

WHEREAS the District has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in the District from the impacts of future hazards and disasters; and

WHEREAS adoption by the District demonstrates its commitment to hazard mitigation and achieving the goals outlines in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THEREFORE, BE IT RESOLVED by the Board that:

The District adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

BE IT IS SO RESOLVED by the Board of Commissioners of the Wood River Drainage and Levee District in meeting duly assembled this 18th day of July 2025.

WOOD RIVER DRAINAGE AND LEVEE DISTRICT, ILLINOIS

President

Vice President

Commissioner

Appendix N

(SEAL)

Attest:

Secretary/Treasurer

VILLAGE OF WORDEN, Illinois

Resolution No. 2025-09

A Resolution of the VILLAGE OF WORDEN adopting the
2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan

WHEREAS the VILLAGE OF WORDEN recognizes the threat that natural and man-made hazards, including severe thunderstorms, severe winter storms, floods, and tornadoes among others, pose to people and property within the VILLAGE OF WORDEN and

WHEREAS the VILLAGE OF WORDEN has prepared an all hazards mitigation plan, hereby known as the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan in accordance with federal laws, including the Robert T. Stafford Disaster Relief and Emergency Assistance Act, as amended; the National Flood Insurance Act of 1968, and the National Dam Safety Program Act, as amended; and

WHEREAS the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan identifies mitigation goals and actions to reduce or eliminate long-term risk to people and property in VILLAGE OF WORDEN from the impacts of future hazards and disasters; and

WHEREAS adoption by the VILLAGE OF WORDEN demonstrates its commitment to hazard mitigation and achieving the goals outlined in the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan.

NOW THERFORE, BE IT RESOLVED BY THE VILLAGE OF WORDEN, ILLINOIS, THAT:

The VILLAGE OF WORDEN adopts the 2025 Madison County Multi-Jurisdictional All Hazards Mitigation Plan and agrees to participate in the annual maintenance and evaluation of the Plan.

ADOPTED by a vote of 6 in favor and 0 against, and 0 abstaining and 0 absent, this 8th day of September, 2025.

CERTIFIED by _____
Preston Hall,
Village President

ATTESTED by _____
Chelsea Paul,
Village Clerk