



EARTHQUAKE SUMMIT 2022

THURSDAY, MARCH 3
SAINT LOUIS SCIENCE CENTER

#MOQUAKE2022

Missouri's S.A.V.E. Coalition

Rapid Building Evaluations After A Disaster

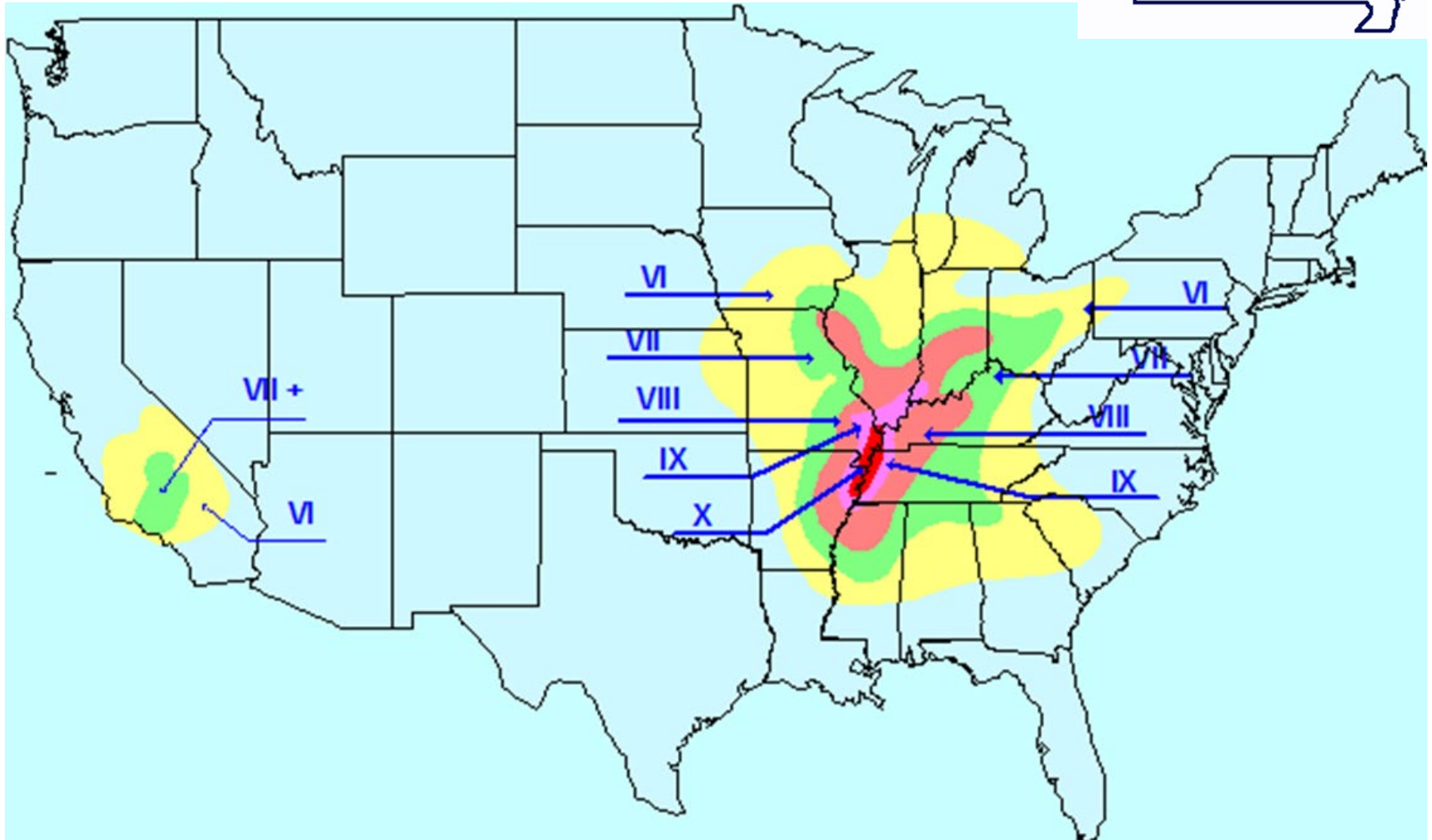
Earthquake Summit 2022

March 3, 2022





7.6 M Earthquake



Modified Mercalli Intensity (MMI)

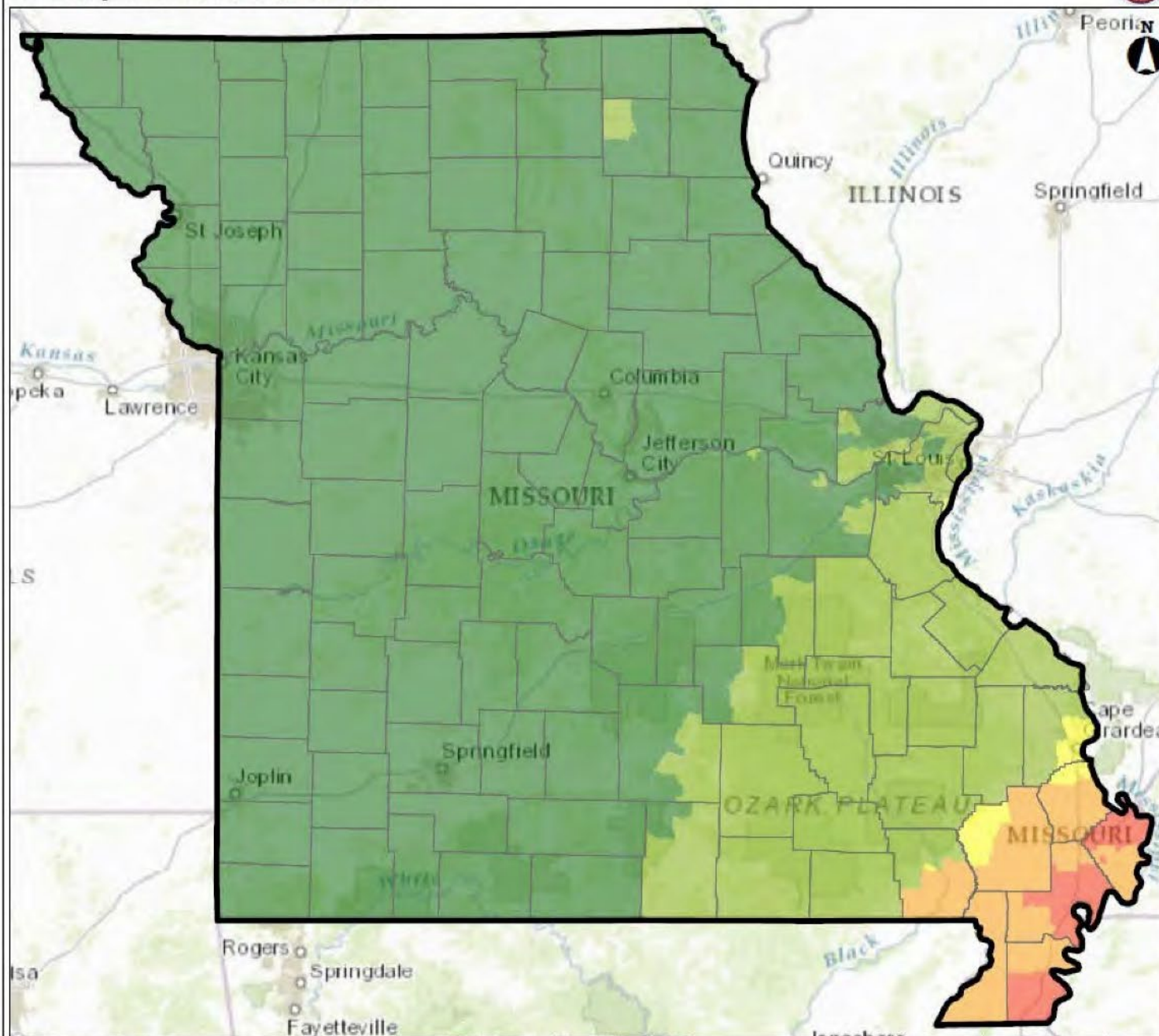
7.7 Earthquake in the Missouri Bootheel



SEMA



FEMA



Data Layer / Map Description:
Overview of the Modified Mercalli Intensity model for an 7.7 catastrophic earthquake along the NMSZ in Missouri based upon the 2009 MAE Center Phase II data.

- VI-Strong
- VII-Very Strong
- VIII-Severe
- IX-Violent
- >X-Extreme
- County

0 30 60 90 Miles

Data Sources:
FEMA, ESRI, MAEC



Missouri S.A.V.E. Coalition



**SAVE Coalition
Implemented by
RSMo 44.023**

**SEMA Authorized to
Establish Volunteer
Inspection Program**



Missouri SAVE Coalition



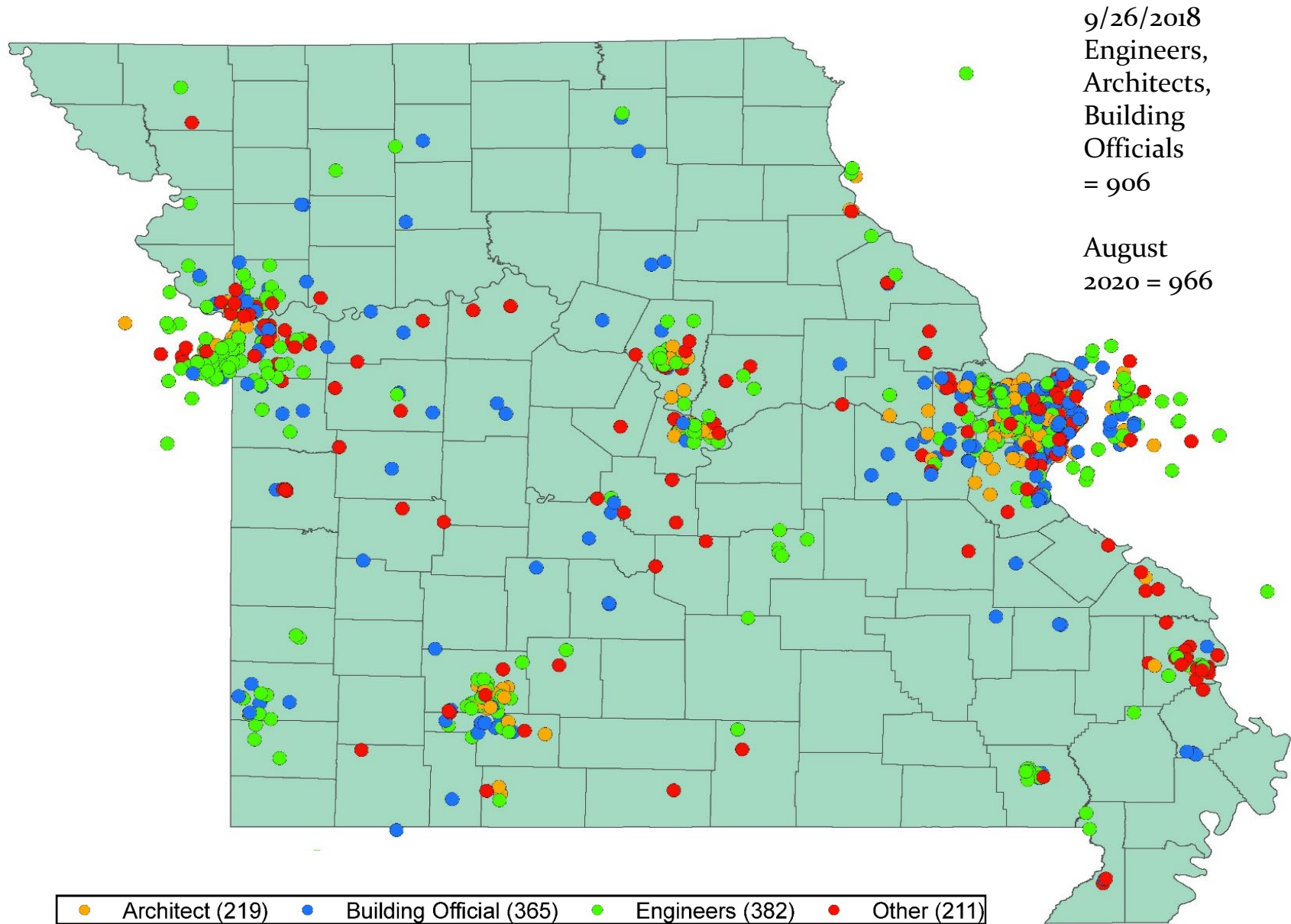
**Around 1,000
Current Members**

**It Starts With
ATC-20/45
Based Training**



Source: SEMA

Missouri SAVE Coalition Members by Occupation





Missouri S.A.V.E. Coalition



The S.A.V.E. Board of Directors Come From the Coalition's Participating Professional Organizations:

- American Council of Engineering Companies/Missouri (ACEC/MO)
- American Institute of Architects/Missouri - (AIA/MO)
- American Society of Civil Engineers - (ASCE)
- Missouri Society of Professional Engineers - (MSPE)
- Structural Engineers Association of Kansas & Missouri - (SEAKM)
- Earthquake Engineering Research Institute - (EERI)
- Society of American Military Engineers/St. Louis - (SAME)
- Missouri Seismic Safety Commission - (MSSC)
- Missouri Association of Code Enforcement - (MACE)

What S.A.V.E. Does

- Mostly Rapid Visual Inspections per ATC-20 and ATC-45
- Exterior Only, Structural Life Safety
- Public Information and Warning - Post Placards:

UNSAFE
DO NOT ENTER OR OCCUPY
(THIS PLACARD IS NOT A DEMOLITION ORDER)

This structure has been inspected, found to be seriously damaged and is unsafe to occupy, as described below:

Date _____
Time _____

This facility was inspected under emergency conditions for: _____
(Jurisdiction)

Inspector ID / Agency _____

Facility Name and Address: _____

Do not enter, except as specifically authorized to writing by jurisdiction. Entry may result in death or injury.

Do Not Remove, Alter, or Cover this Placard until Authorized by Governing Authority

RESTRICTED USE

Caution: This structure has been inspected and found to be damaged as described below:

Date _____
Time _____

(Caution: Aftershocks since inspection may increase damage and risk.)

This facility was inspected under emergency conditions for: _____
(Jurisdiction)

Inspector ID / Agency _____

Facility name and address: _____

Entry, occupancy, and lawful use are restricted as indicated below:

☐ Do not enter the following areas: _____

☐ Brief entry allowed for access to contents: _____

☐ Other restrictions: _____

Do Not Remove, Alter, or Cover this Placard until Authorized by Governing Authority

STRUCTURALLY INSPECTED
LAWFUL OCCUPANCY PERMITTED

This structure has been inspected (as indicated below) and no apparent structural hazard has been found.

Date _____
Time _____

(Caution: Aftershocks since inspection may increase damage and risk.)

This facility was inspected under emergency conditions for: _____
(Jurisdiction)

Inspector ID# / Agency _____

Facility Name and Address: _____

Inspector Comments: _____

☐ Inspected Exterior Only

☐ Inspected Exterior and Interior

Report any unsafe condition to local authorities; reinspection may be required.

Do Not Remove, Alter, or Cover this Placard until Authorized by Governing Authority

- Joplin EF-5 Deployment Data used by FEMA, Missouri National Guard, NIST, and ASCE Researchers



How S.A.V.E. Activates



EVENT OCCURS
(Local Agencies Overwhelmed)



Governor
Declares Emergency



Local Government Requests Building
Inspection Help from SEMA



S.A.V.E. Teams Begin Deployment



Missouri S.A.V.E. Coalition



S.A.V.E. Volunteer Service

Duration = 5 days

**Liability = Willful & Gross
Negligence Only**

Duty With = Local Jurisdiction

**Expenses = Local Jurisdiction
Reimbursement**

Workers Compensation = State



Benefit to Missourians



Photo Credit: Ben Ross – S.A.V.E.

Keeping People Safe





Ponce, Puerto Rico – 6.4 M
Earthquake + 40 days



Ponce, Puerto Rico – 6.4 M
Earthquake + 40 days



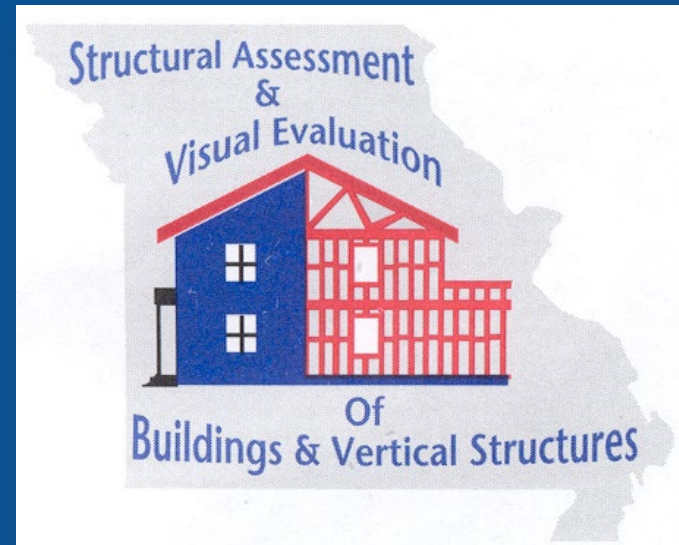
Ponce, Puerto Rico – 6.4 M
Earthquake + 40 days

SEMA S.A.V.E.

Structural Assessment and Visual Evaluation Coalition

Fredericktown, MO Flash Flood

1999

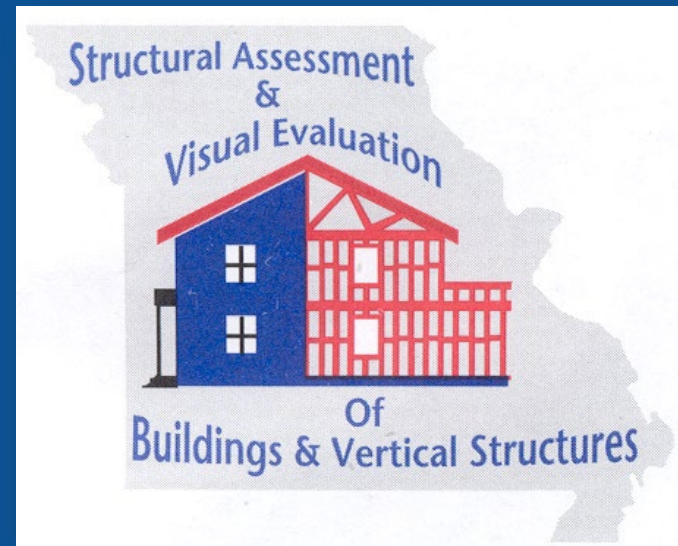


SEMA S.A.V.E.

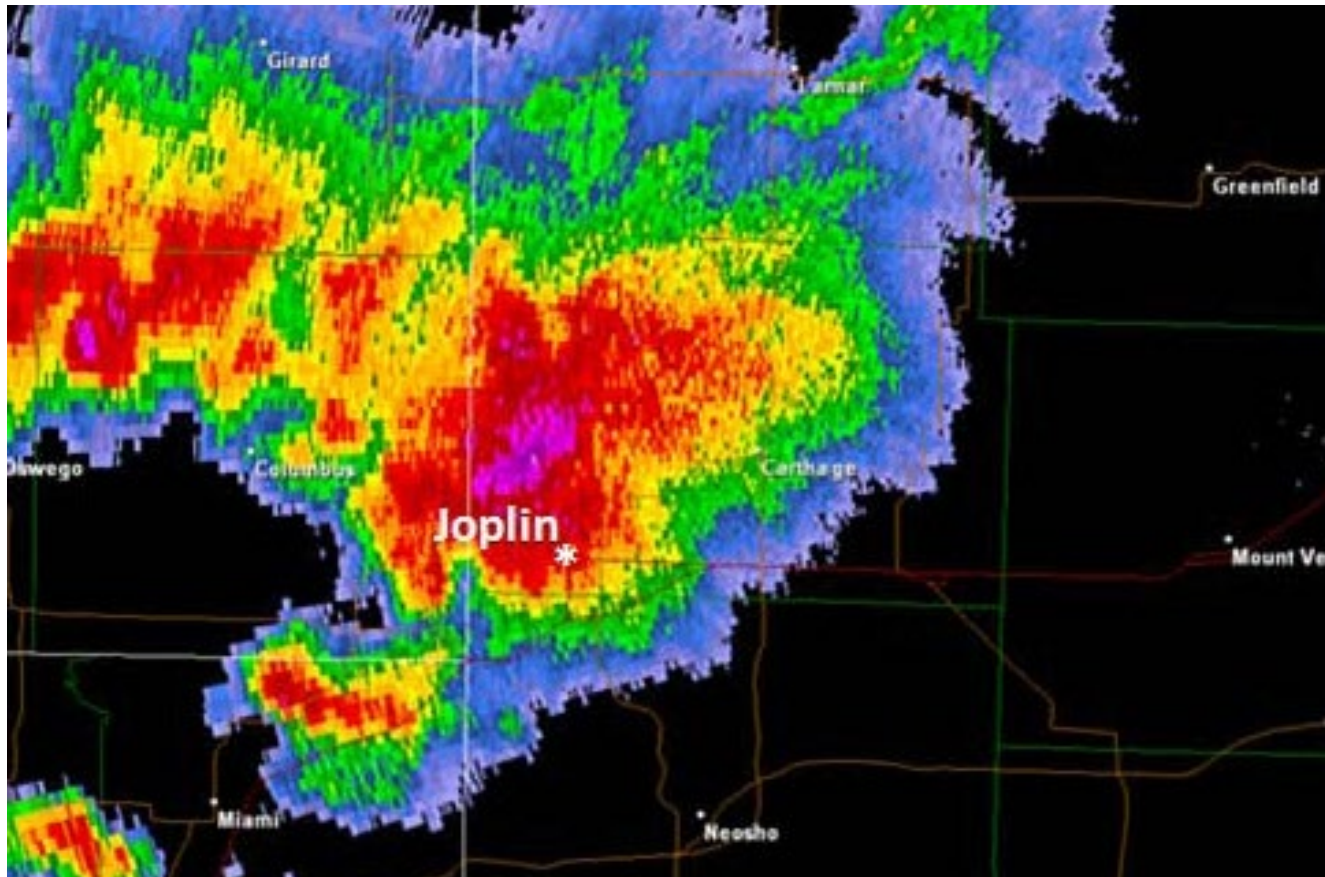
Structural Assessment and Visual Evaluation Coalition

Joplin EF-5 Tornado Deployment

May 25 – 28, 2011

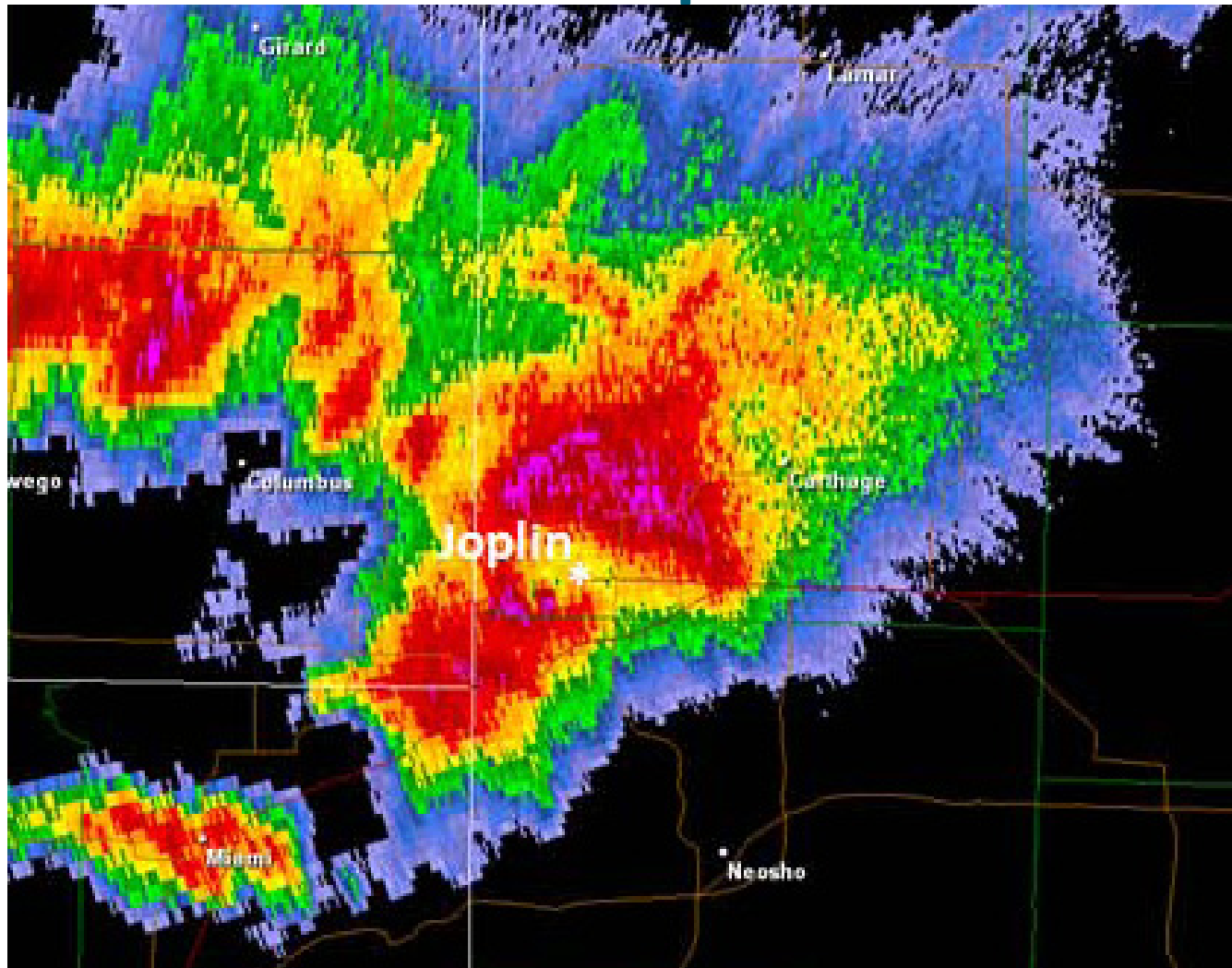


May 22, 2011
5:29 pm



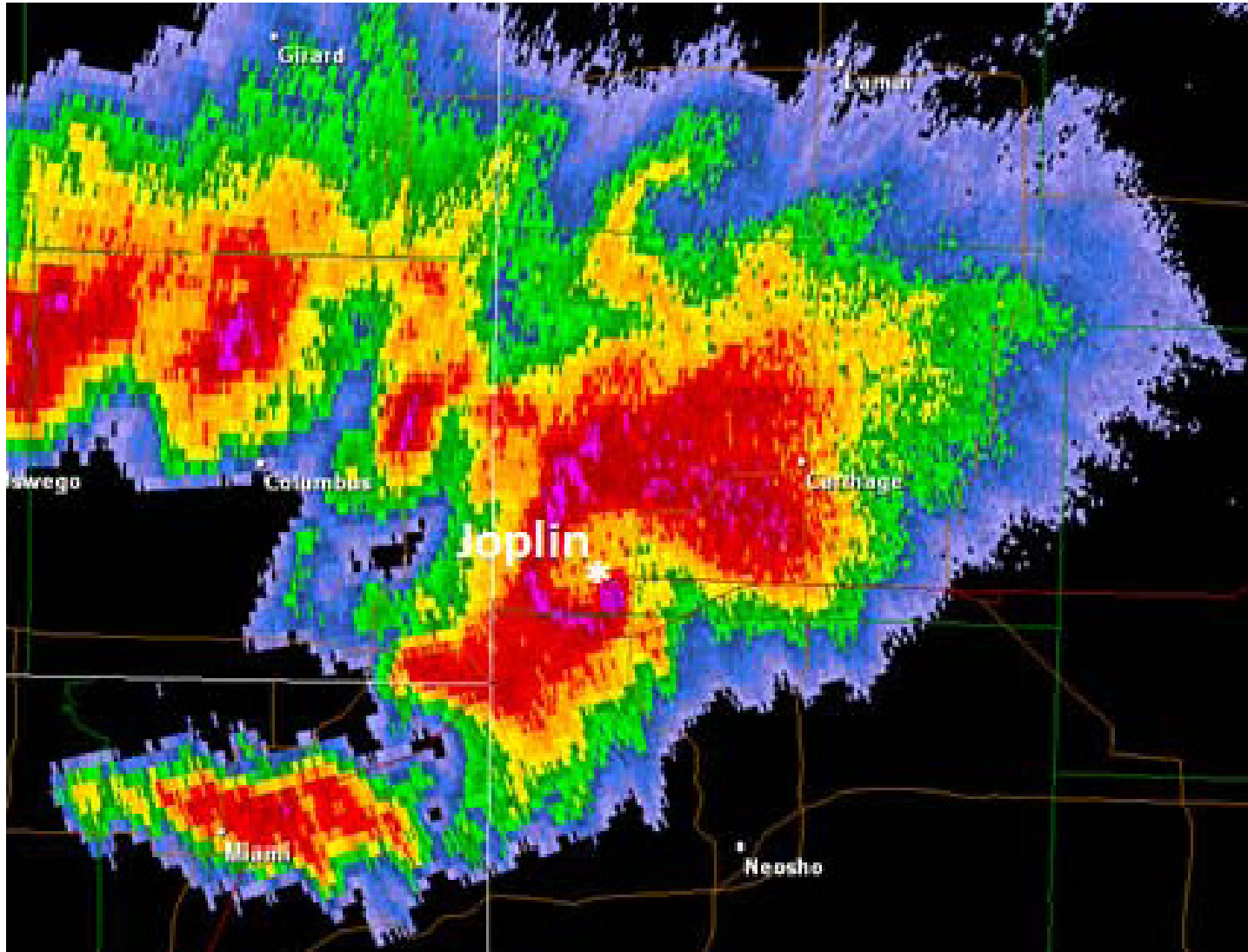
Source: National Weather Service

5:39 pm



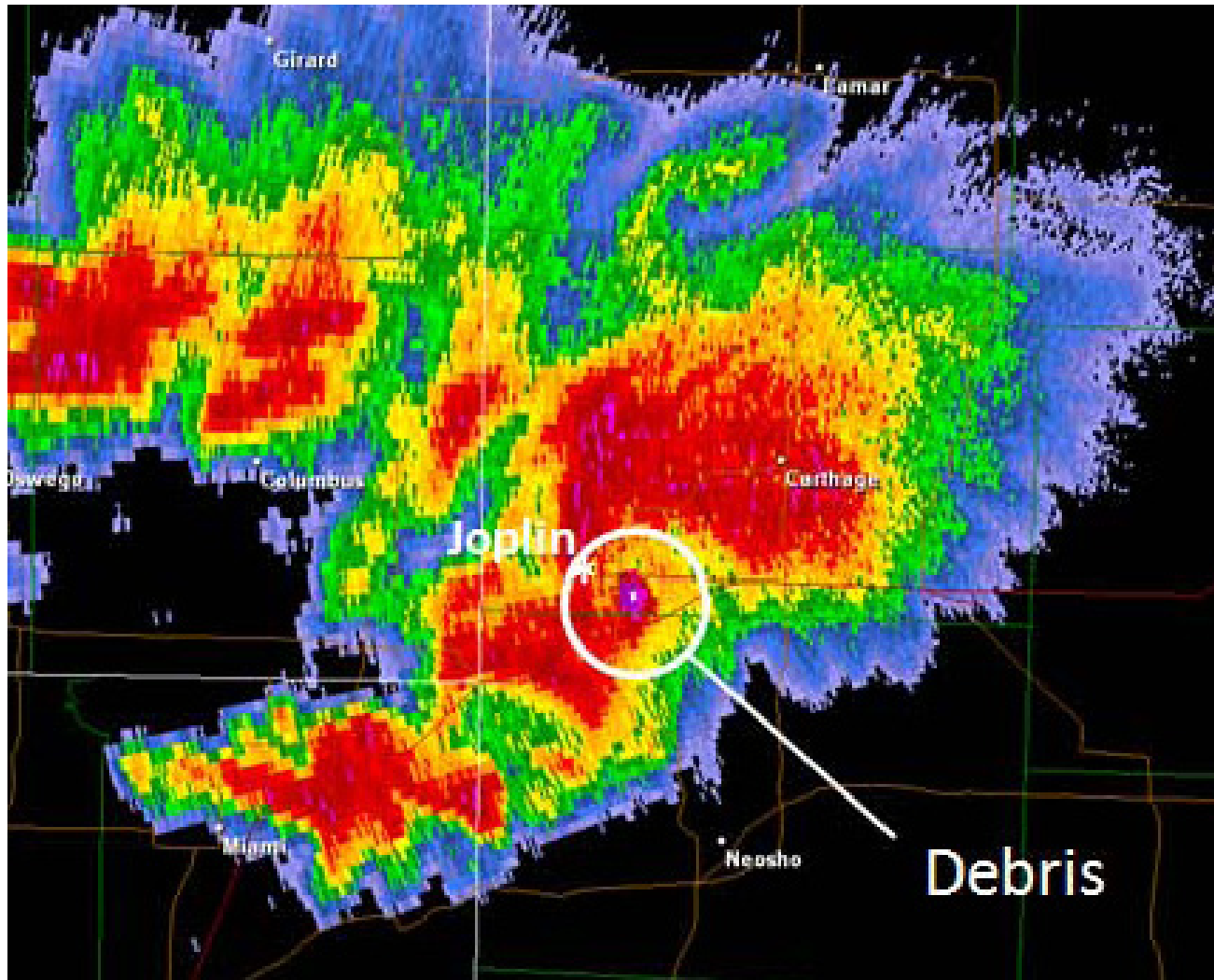
Source: National Weather Service

5:43 pm



Source: National Weather Service

5:48 pm



Source: National Weather Service



Photo Credit: Michael Goldschmidt, AIA – S.A.V.E.



Photo Credit: Jeff Hower – S.A.V.E.

State of Emergency Declared

"As a state, we are deploying every agency and resource available to **keep Missouri families safe**, search for the missing, provide emergency medical care, and begin to recover."

Gov. Jay Nixon

Joplin EF-5 Event Time Line

- May 22nd 5:41 pm Tornado Strikes
- May 22nd 5:42 pm Search and Rescue Efforts Begin
- May 23rd 8:10 am S.A.V.E. Regional Coordinators
Begin Phone Tree Call Down
- May 24th 10:39 pm City of Joplin Requests Building
Inspection Help from SEMA
- May 25th 10:19 am S.A.V.E. SW Regional
Coordinator Deploys to Joplin
- May 26-28 S.A.V.E. Inspection Team Deployment

Daily Briefing



Photo Credit: Ben Ross – S.A.V.E.

S.A.V.E. Members in the Field



Photo Credit: Jeff Hower – S.A.V.E.

Aftermath



Photo Credit: Ben Ross – S.A.V.E.

Aftermath



Photo Credit: Ben Ross – S.A.V.E.

Aftermath



BEFORE

Photo Credit: St. Mary's



AFTER

Photo Credit: CNS

Posting Damaged Building



Photo Credit: Jeff Hower – S.A.V.E.

Example Unsafe Building

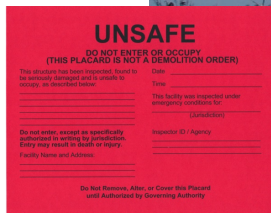


Photo Credit: Ben Ross – S.A.V.E.

Example Unsafe Building

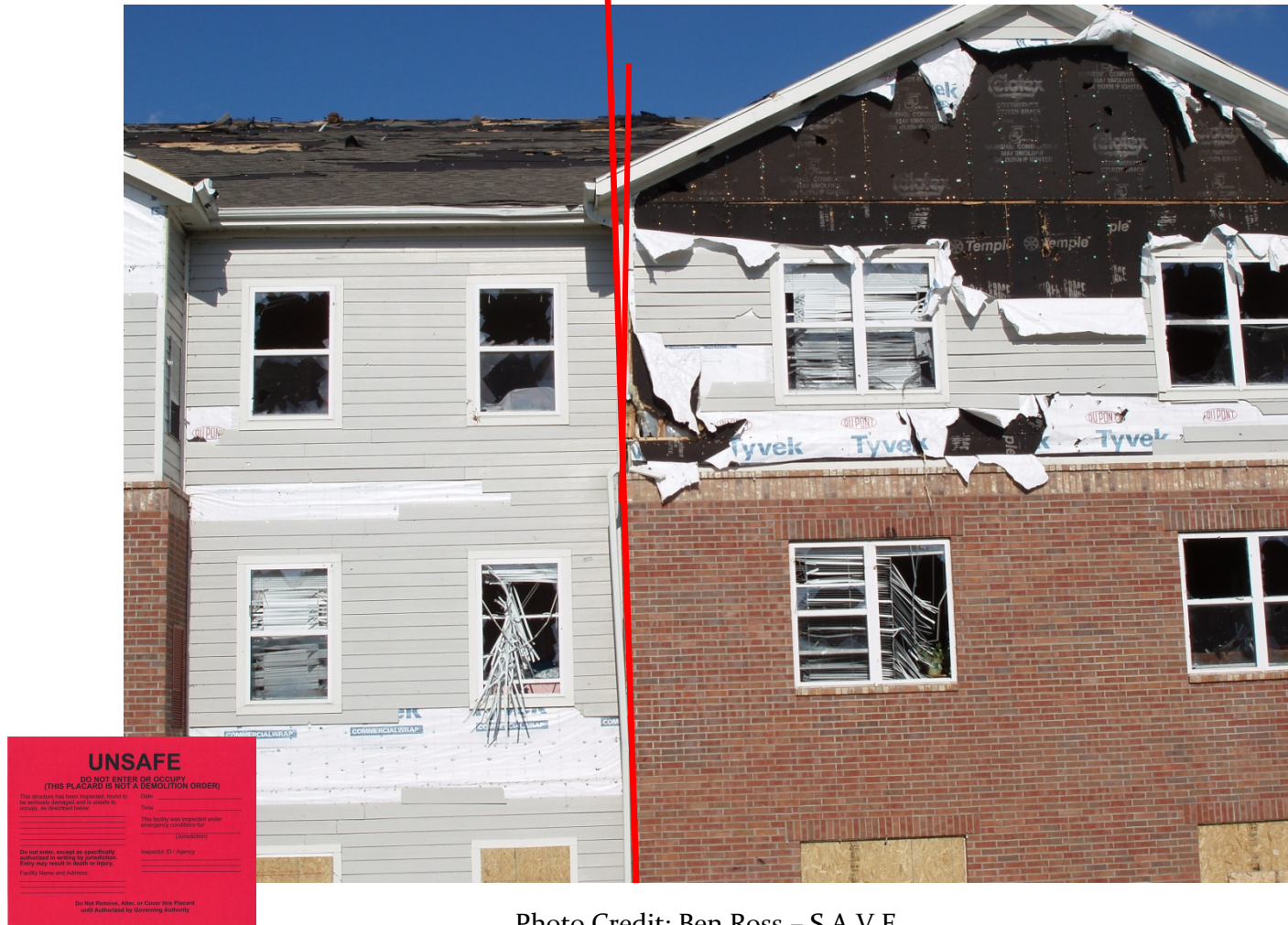


Photo Credit: Ben Ross – S.A.V.E.

Example Unsafe Building



UNSAFE
DO NOT ENTER OR OCCUPY
(THIS PLACARD IS NOT A DEMOLITION ORDER)

This structure has been inspected, found to be seriously damaged and is unsafe to occupy, as described below.

Date: _____

This facility was inspected under emergency conditions for: _____

Inspector ID / Agency: _____

Facility Name and Address: _____

Do not enter, except as specifically authorized in writing by jurisdiction. Entry may result in legal liability.

Do Not Remove, Alter, or Cover This Placard and Authorized by Issuing Authority.

Photo Credit: Ben Ross – S.A.V.E.

Example Unsafe Building



UNSAFE
DO NOT ENTER OR OCCUPY
(THIS PLACARD IS NOT A DEMOLITION ORDER)

This structure has been inspected, found to be seriously damaged and is unsafe to occupy, as described below:

Date: _____
Inspector: _____

This facility was inspected under emergency conditions for: _____
Inspector: _____

Do not enter, except as specifically authorized in writing by jurisdiction. Entry may result in death or injury.

Facility Name and Address: _____
Inspector ID / Agency: _____

Do Not Remove, Alter, or Cover This Placard until Authorized by Issuing Authority.

Photo Credit: Ben Ross – S.A.V.E.

Example Unsafe Building

UNSAFE

**DO NOT ENTER OR OCCUPY
(THIS PLACARD IS NOT A DEMOLITION ORDER)**

This structure has been inspected, found to be seriously damaged and is unsafe to occupy, as described below:

Date 5/26/2011

Time 3:42

This facility was inspected under emergency conditions for:

PARTIAL COLLAPSE OF EXTERIOR WALLS

JOPLIN
(Jurisdiction)

Do not enter, except as specifically authorized in writing by jurisdiction. Entry may result in death or injury.

Inspector ID / Agency SAVE

Facility Name and Address:

JOPLIN, MO

Permit Required

Do Not Remove, Alter, or Cover this Placard until Authorized by Governing Authority

Photo Credit: Ben Ross – S.A.V.E.

Progress Board – End of Day 2

16 / 46 27 MAY '11 1840

AREA	
1	10-1 DONE
	10-2 DONE
	10-3 DONE
	11-1 20%
2-1 DONE	11-2 50%
2-2 DONE	11-3 0% mostly Green
3-1 DONE	11-4 0% mostly Green
3-2 DONE	11-A NOT Assigned
4-1 0% mostly Green	12-1 10% DONE
4-2 75%	12-2 Assigned
5-1 DONE	12-3 DONE-All Red
5-2 50%	12-4 DONE-All Red
6-1 95%	13-1 NOT ASSIGNED
6-2 50%	13-2
6-3 0% mostly Red	14-1
7-1 DONE	15-1
7-2 40%	15-2
8-1 30% mostly Green	15-3
8-2 DONE	15-4
8-2 DONE	15-5
9-1 15%	15-6
9-2 60% all day 1/2	16-1
9A-1 DONE	16-2
9A-2 DONE	16-3
9A-3 DONE	
9A-4 DONE	

Photo Credit: Ben Ross – S.A.V.E.

S.A.V.E. Members Stayed at Ozark Christian College in Joplin



Photo Credit: Ben Ross – S.A.V.E.

Example Unsafe Building



UNSAFE
DO NOT ENTER OR OCCUPY
(THIS PLACARD IS NOT A DEMOLITION ORDER)

This building has been inspected and found to be seriously damaged and is unsafe to occupy, as described below.

Date: _____

This facility was inspected under emergency conditions for: _____

Inspector ID / Agency: _____

Facility Name and Address: _____

Do not enter, except as specifically authorized in writing by jurisdiction. Entry may result in death or injury.

Do Not Remove, Alter, or Cover This Placard until Authorized by Issuing Authority.

Photo Credit: Ben Ross – S.A.V.E.

Example Unsafe Building?



Photo Credit: Ted Pruess – S.A.V.E.

Example Unsafe Building?



Photo Credit: Ted Pruess – S.A.V.E.

Example Unsafe Building?



Photo Credit: Ben Ross – S.A.V.E.

Example Unsafe Building



Photo Credit: Ben Ross – S.A.V.E.

Example Restricted Use Building



RESTRICTED USE

Caution: This structure has been
inspected and found to be damaged as
indicated below.

Entry, occupancy, and lawful use are
restricted as indicated below.

☐ Do not enter the building area.

☐ What is allowed to access to outside.

☐ Other restrictions.

Facility name and address.

Date

Time

Example Inspected Building



INSPECTED
LAWFUL OCCUPANCY PERMITTED

This structure has been inspected (see attached report) and is deemed to be in a safe condition for occupancy. No further action is required.

☐ Inspected Exterior Only
☐ Inspected Exterior and Interior

Report any unsafe condition to local authorities. Inspection may be required.

Inspector Comments: _____

Facility Name and Address: _____

Do Not Remove, Alter, or Cover this Placard until Authorized by Governing Authority

Date: _____
Time: _____

(Caution: Afterhours drive inspection may increase damage and risk.)

This facility was inspected under emergency conditions for _____ (Justification)

Inspector ID / Agency: _____

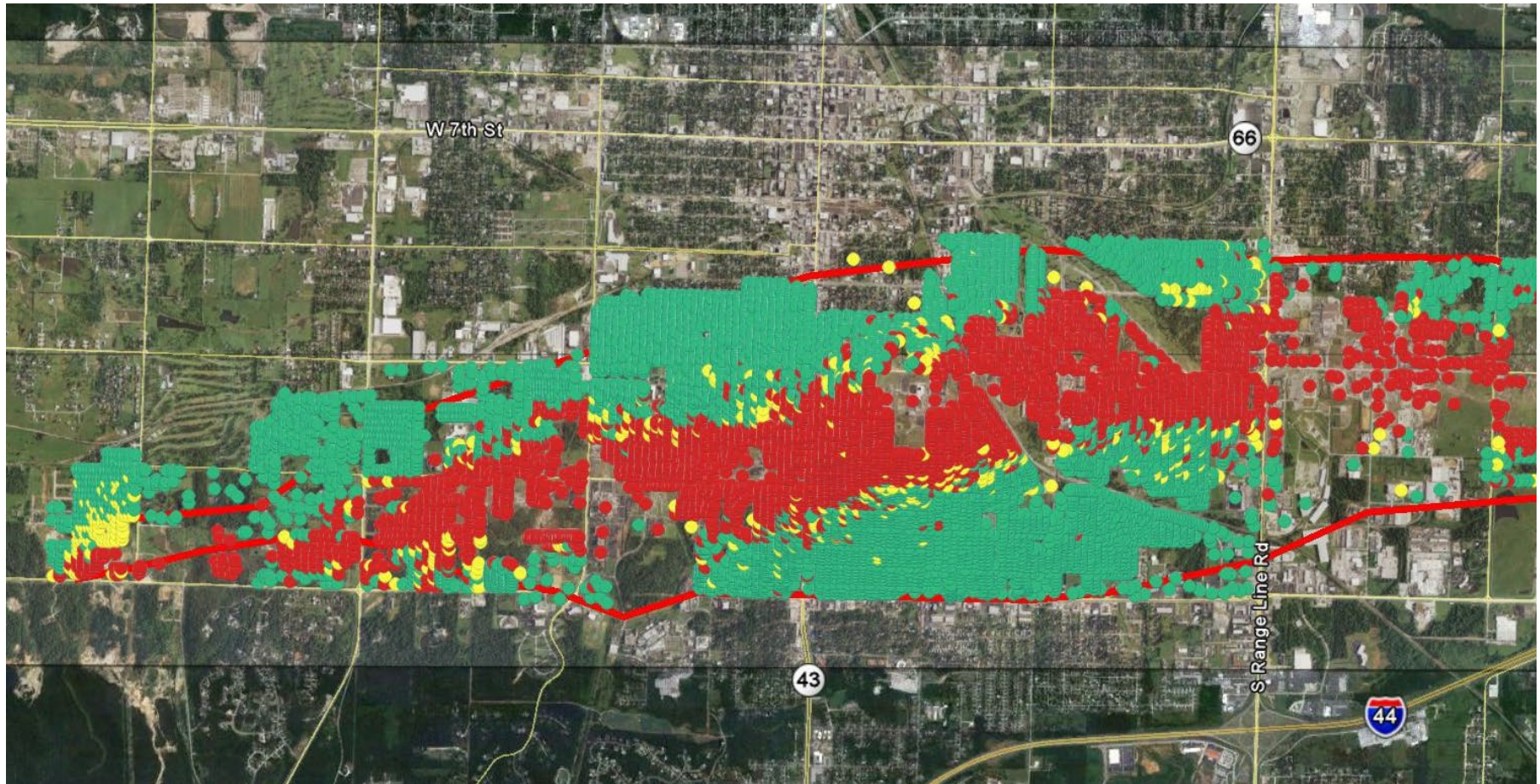
Photo Credit: Ben Ross – S.A.V.E.

Field Copies of Damage Area Maps



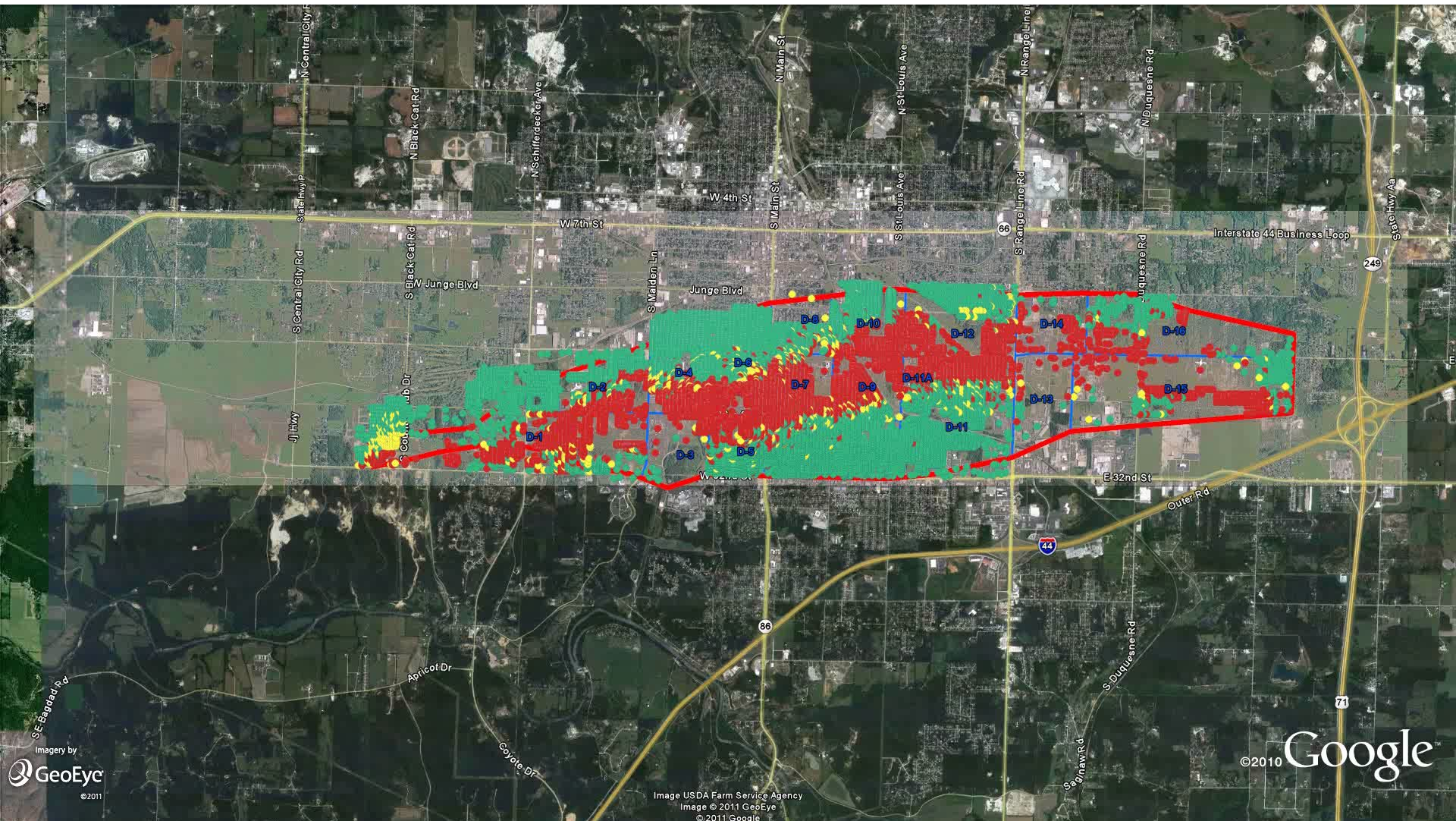
Photo Credit: Ben Ross – S.A.V.E.

S.A.V.E. Data in City of Joplin GIS



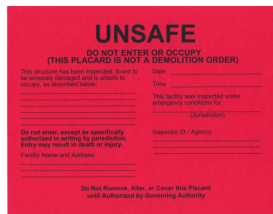
Courtesy City of Joplin

Tornado's Eye View



Results

- More than 7,700 Structures Evaluated/Inspected



UNSAFE
DO NOT ENTER OR OCCUPY
(THIS PLACARD IS NOT A DEMOLITION ORDER)

This structure has been inspected and found to be seriously damaged and is unsafe to occupy, as described below:

Do not enter, except as specifically authorized in writing by jurisdiction. Entry may result in death or injury.

Facility Name and Address: _____

Date: _____

This facility was inspected under emergency conditions for: _____ (Jurisdiction)

Inspector ID / Agency: _____

Do Not Remove, Alter, or Cover this Placard until Authorized by Governing Authority.

- 36% Unsafe



RESTRICTED USE

Caution: This structure has been inspected and found to be damaged as indicated below:

Entry, occupancy, and lawful use are restricted as indicated below:

☐ No entry allowed to access to collapse

☐ Other reasons: _____

Facility name and address: _____

Date: _____

(Caution: Afterlocks since inspection may increase damage and risk.)

This facility was inspected under emergency conditions for: _____ (Jurisdiction)

Inspector ID / Agency: _____

Do Not Remove, Alter, or Cover this Placard until Authorized by Governing Authority.

- 6% Restricted Use



INSPECTED
LAWFUL OCCUPANCY PERMITTED

This structure has been inspected (as indicated below) and no imminent structural hazard has been found:

☐ Inspected Exterior Only

☐ Inspected Exterior and Interior

Report any unsafe condition to local authorities. Occupation may be required.

Inspector Comments: _____

Facility Name and Address: _____

Date: _____

(Caution: Afterlocks since inspection may increase damage and risk.)

This facility was inspected under emergency conditions for: _____ (Jurisdiction)

Inspector ID / Agency: _____

Do Not Remove, Alter, or Cover this Placard until Authorized by Governing Authority.

- 58% Did Not Present Life Safety Problems

Joplin Building Official Steve Cope Thanking S.A.V.E. Members



Photo Credit: Ben Ross – S.A.V.E.

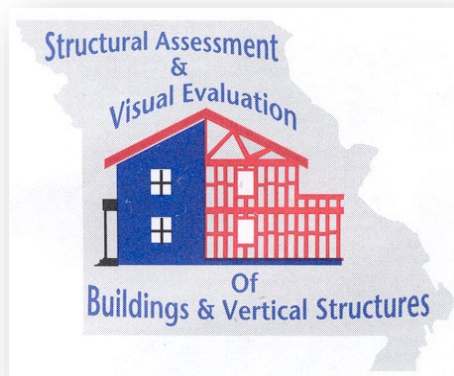
Lessons Learned

- S.A.V.E. Program Worked Well
- An Automated Volunteer Communication System is Needed
- Automated Data Collection is Needed
- Better Transportation
- Formal SAVE Leader Training

SAVE Goal: Develop Relationship with Missouri National Guard



2015 Exercise Planning Team



Jefferson Barracks Site



Historic Building with Real Damage



April 2015 Planning Site Visit



Senior Leadership Support

“What most impressed me was the teamwork. We had folks from many states working together to organize this drill, inspect the buildings and report the findings, and they did a great job.” - Ron Walker, SEMA Director



Check-In and Team Assignments





EXIT

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24
25	26	27	28	29	30	31	32	33	34	35	36
37	38	39	40	41	42	43	44	45	46	47	48
49	50	51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70	71	72
73	74	75	76	77	78	79	80	81	82	83	84
85	86	87	88	89	90	91	92	93	94	95	96
97	98	99	100	101	102	103	104	105	106	107	108
109	110	111	112	113	114	115	116	117	118	119	120

Saint Louis
COUNTY
PUBLIC WORKS
DISASTER RECOVERY

ST. LOUIS
CODE
ENFORCEMENT

Real 3.4M Earthquake in New Madrid

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Two quakes rattle parts of Southeast Missouri

Monday, October 19, 2015

By DAVID SILVERBERG ~ Daily American Republic

Many residents of Butler, Ripley and Carter counties in Missouri felt the earth shake at 3:26 p.m. Friday or heard what sounded like a sonic boom.

The U.S. Geological Survey said it was a 3.4-magnitude earthquake, followed 24 minutes later by a 3.2-magnitude aftershock.

There were no reports of damage, but concerned people called area law enforcement to find out what was going on.

Robbie Myers, director of the Butler County Emergency Management Agency, was told the epicenter was 29 miles west of Poplar Bluff, Missouri, or a few miles west of Grandin, Missouri.

Myers reported a woman, who lives on Butler County Road 450, told a dispatcher at the sheriff's department "it felt like the front porch was going to shake off the house."

Lance Pigg, director of the Ripley County Emergency Management Agency, did not receive damage reports, but people said "it felt like a fairly strong earthquake."

Noah Cross was sitting in his office at Ozark Meats five miles east of Grandin when the tremor occurred.

"I realized the whole place was shaking. I saw the freezer door shaking," Cross said. "I

"All of a sudden, a picture fell off the wall. We didn't know what had happened," Orr said.

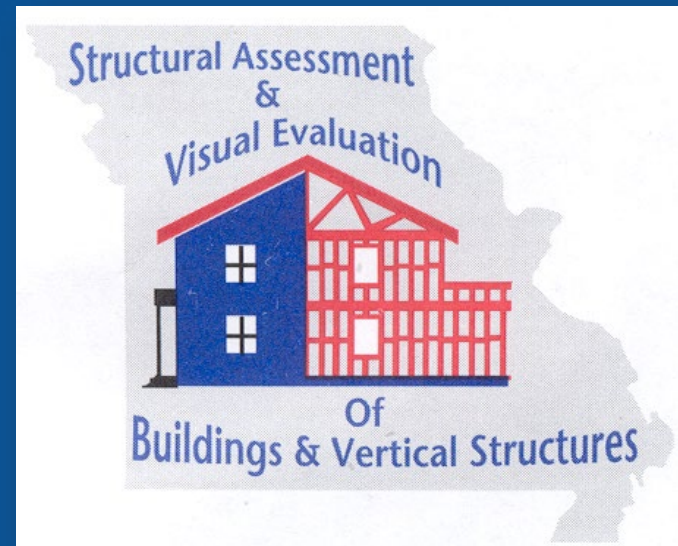
Myers said the earthquake occurred just one day after EMA officials had participated in the annual Great Central U.S. ShakeOut drill at area schools.

"This earthquake is a reminder one can happen at any time. That is why we practice earthquake drills," Myers said.

SEMA S.A.V.E.

Carter Co. / Van Buren, Missouri
Flash Flood Deployment

May 3, 2017



SEMA S.A.V.E.

Structural Assessment and Visual Evaluation Coalition

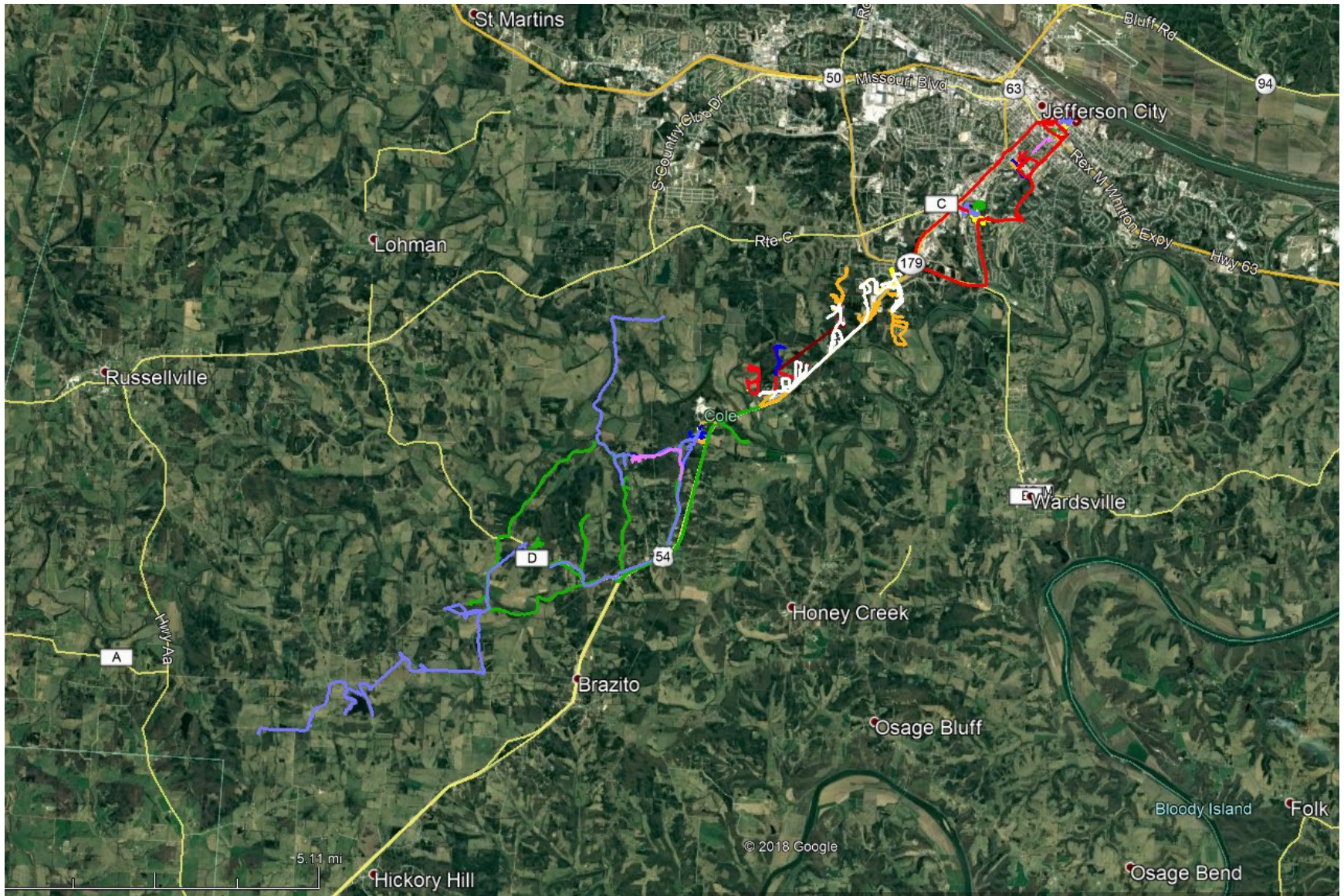
Jefferson City and Cole County

EF-3 Tornado Deployment

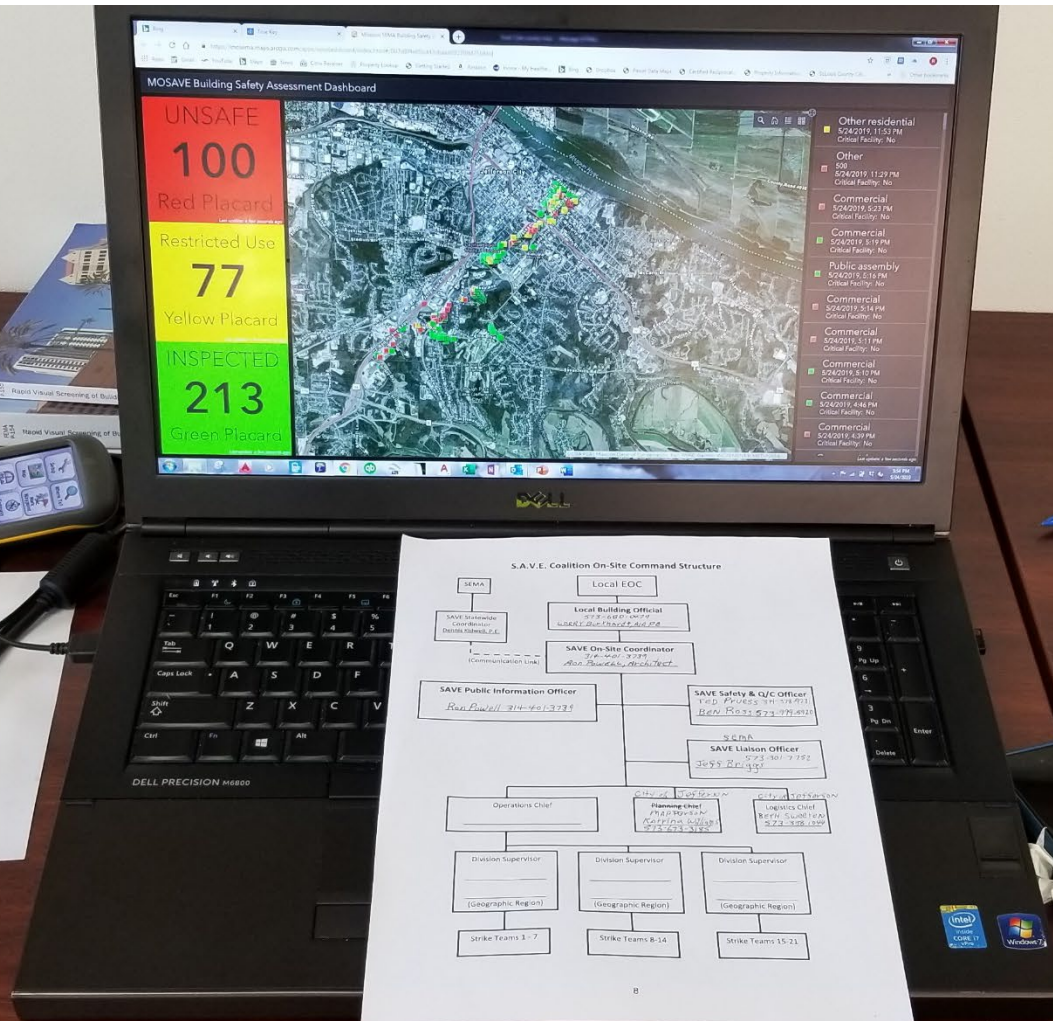
May 24 – 25, 2019



Extent of Damage



Data Collection Methods



ASSIGNMENT LIST (ICS 204)

1. Incident Name: Jefferson City Tornado 2019	2. Operational Period: Date From: 24 May 19 Time From: 7:30 AM	3. Date To: 25 May 19 Time To:
4. Operations Personnel: Name		

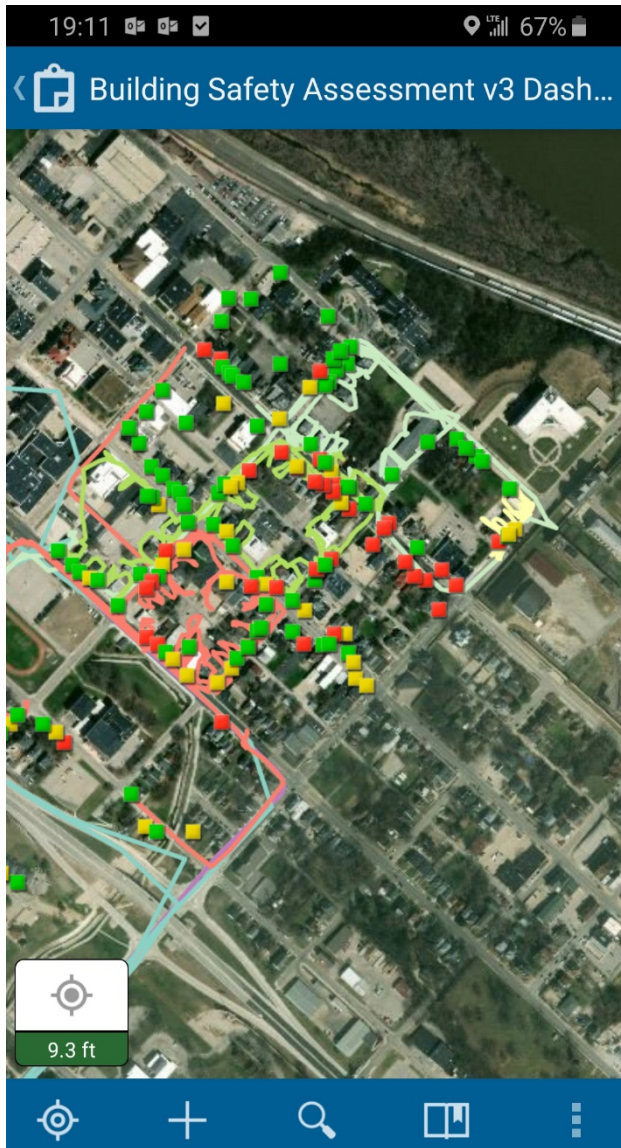
ACTIVITY LOG (ICS 214)

1. Incident Name: Jefferson City Tornado 2019	2. Operational Period: Date From: 24 May 19 Time From: 7:30 AM
3. Activity Log (continuation): Incident Activities	
1. Incident Leadership Meeting: Ben Roas, Sonya Sanders, Kristine Williams, Ted Pry...	

S.A.V.E. GPS Track



ESRI Collector App



14:31 85%

✓ Details

Building Safety Assessment:
long:-92.16285587 lat:38.57368193

INSPECTOR ID
27797

AFFILIATION
SAVE

INSPECTION DATE AND TIME
05/24/2019 10:21 AM

INCIDENT
Other

INCIDENT TYPE
Windstorm

CRITICAL FACILITY
No

BUILDING NAME

ADDRESS
100 Lafayette

TYPE OF CONSTRUCTION
Unreinforced masonrv

14:32 85%

✓ Details

Unreinforced masonry

IF CONSTRUCTION OTHER, PLEASE DESCRIBE

PRIMARY OCCUPANCY
Offices

IF OCCUPANCY OTHER, PLEASE DESCRIBE

PLACARD STATUS
INSPECTED (Green placard)

PLACARD COMMENTS
minor fascia damage

DETAILED EVALUATION RECOMMENDED
None

ADDITIONAL NOTES

BUILDING CONTACT NAME

BUILDINGCONTACTPHONE

ATTACHMENTS
No attachments found

"Why do those numbers keep changing?"



S.A.V.E. Technical Supervisor Visits Team in the Field



Photo Credit: Ben Ross – S.A.V.E.

Law Enforcement Support



Law Enforcement Support



Photo Credit: Ben Ross – S.A.V.E.

Example Unsafe Building



UNSAFE
DO NOT ENTER OR OCCUPY
(THIS PLACARD IS NOT A DEMOLITION ORDER)

This structure has been inspected and found to be unsafe for occupancy and is hereby notified. No one should enter or occupy this structure.

Do not enter, occupy or use this structure until it is repaired or demolished. Entry may result in death or injury. Liability, fines and penalties.

Inspector: _____
Date: _____
City/County: _____

Inspector ID: _____
City/County: _____

Do Not Remove, Alter, or Conceal This Placard
Until Authorized by Issuing Authority

Non-Event Damage



Blue Tarp – Training Validation



Blue Tarp – Training Validation



Training Validation



Training Validation



Training Validation



Training Validation



Training Validation – Walk Around the Building

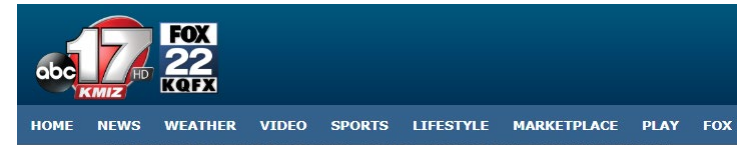


Media Coverage



Missouri Governor — Michael L. Parson

Office of Communications



News



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FOR IMMEDIATE RELEASE

May 24, 2019

Missouri Reports Strong Progress in Recovery Following Storms; Building Assessments Underway in Jefferson City

Governor Parson urges Missourians to be prepared to take precautions over the weekend in which severe weather, flooding are expected.

(JEFFERSON CITY, MO) – Governor Mike Parson this afternoon commended the work of emergency response crews, businesses and utilities, and volunteers whose work is speeding recovery in the wake of historic night of severe storms on May 22.

In Jefferson City, a team of volunteer engineers, architects, building inspectors and other professionals today began assessing the estimated 500 homes and buildings that were damaged to determine which are safe and which should be evacuated. On Saturday, the **Assessment and Visual Evaluation (S.A.V.E.) Coalition** is expected to evaluate structures in Cole County that are reported to have been damaged.

Of the first 321 structures reviewed today, the S.A.V.E. Coalition reported the following:

- 78 Unsafe (Severely damaged and cannot be occupied – Red)
- 60 Restricted Use (A portion of the building is unsafe – Yellow)
- 183 Safe for Reentry (Structurally safe to occupy – Green)

The S.A.V.E. team, which works under the Missouri **State Emergency Management**, is assisting the **Jefferson City Building Department**.

Local News

Building inspectors survey storm-damaged properties in Jefferson City

Jefferson City residents might notice a red, yellow or green placard on their front doors in the coming days.

by Nicole Roberts May 24 2019 @ 5:55pm



Building inspector Daryl Brown, of Columbia, places a notice of structural inspection on a door Friday May 24, 2019, during the Jefferson City house on Capitol Avenue safe for occupancy. Jefferson City building inspectors are being assisted with tornado recovery through a mutual aid agreement with members of the Structural Assessment and Visual Evaluation (S.A.V.E.) Coalition.

Jefferson City residents might notice a red, yellow or green placard on their front doors in the coming days.

The city Building Department and a State Emergency Management Agency volunteer organization are working to inspect buildings damaged by Wednesday's tornado.

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Teenager hurt in single-vehicle crash in Morgan County

Lady Jays down Helias in volleyball for first time since 2013

Fatima gets early lead, holds off Lady Jays for 5-3 win

Missouri football focused on finishing games

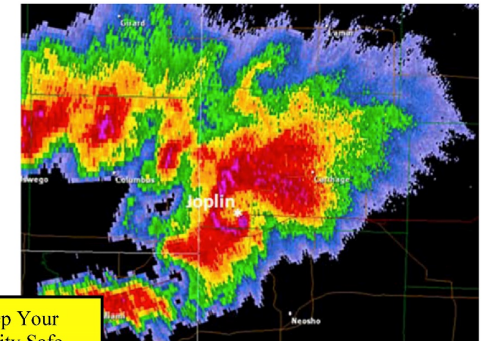
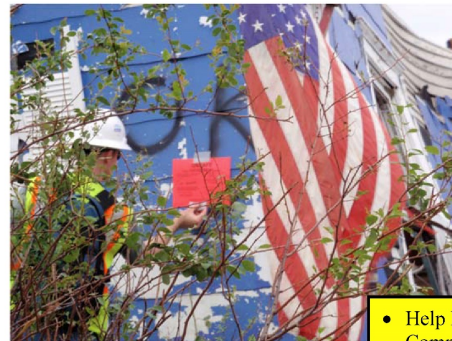
Missouri men at Kentucky for SEC hoops opener

Lessons Learned/Learning

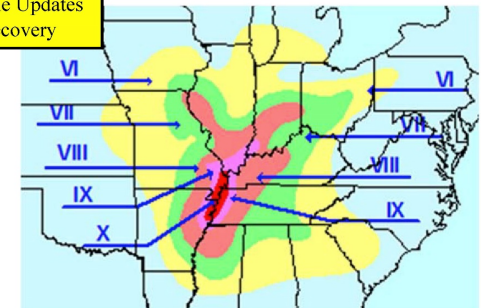
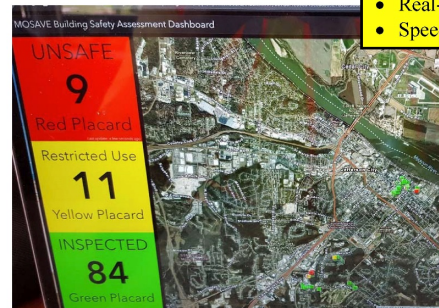
- Pre-Deployment Coordination
- Logistical Support
- GIS Support (City, State, Federal)
- FEMA Urban Search and Rescue Data
- Law Enforcement Support
- S.A.V.E. Leader Training Validated
- S.A.V.E. Program Worked Well

LPA Guide to Utilizing SAVE

Local Public Agency Guide to Utilizing Missouri's **S.A.V.E. Coalition** to Perform Post-Disaster Building Safety Evaluations



- Help Keep Your Community Safe
- Real-Time Updates
- Speed Recovery



Missouri
State Emergency Management Agency
and the
Structural Assessment and
Visual Evaluation
(SAVE) Coalition



December 4, 2020

2021 Missouri Shakeout Earthquake Exercise



Exercise Planning Team



With Local
Fire Services



635th FIST

PhotoShop Damage

DAMAGED BUILDING PHOTOS AREAS 1-4



2021 Missouri ShakeOut
Earthquake Exercise

635th FIST-Main



AREA 3 - BUILDING #46- PHOTO #1



More MONG Participants





Missouri Department of Public Safety

SEMA State Emergency
Management Agency

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Missouri SAVE Coalition

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Missouri SAVE Coalition

Ensuring Building
Safety In a
Disaster



The Missouri Structural Assessment and Visual Evaluation (SAVE) Coalition is a group of volunteer engineers, architects, building inspectors and other trained professionals that assists the Missouri State Emergency Management Agency with

Questions?



Photo Credit: Jeff Hower – S.A.V.E.

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