



LOUISVILLE TORNADO

SCOTT L TRAPOLINO, GISP

DESOTO COUNTY, MS

“THE REAL VALUE OF GIS IS
NOT IN THE RESPONSE PHASE,
BY THEN IT'S TOO LATE...”

WINSTON COUNTY



Winston County
Economic Development Partnership

311 W. Park St., Louisville MS 39339
Phone: 662-773-8719 Fax: 662-773-8909
www.winstoncounty.com

Major Communities in Winston County, Mississippi



Winston County

County in Mississippi

Winston County is a county located in the U.S. state of Mississippi. In the 2010 census, the population was 19,198. Its county seat is Louisville.

[Wikipedia](#)

Area: 610 mi² (1,580 km²)

Founded: 1833

Population: 18,788 (2013)

Unemployment rate: 10.2% (Dec 2014)

County seat: [Louisville](#)

Cities: [Louisville](#), [Noxapater](#)

TOPICS OF DISCUSSION

- **Available Data**
- **Economic Impact**
- **GIS on Scene**
- **Looking into the Future**

AVAILABLE DATA

- Mississippi Automated Resource Information System (MARIS)
<http://www.maris.state.ms.us/>
- Mississippi Geospatial Clearinghouse
<http://www.gis.ms.gov/Portal/home.aspx?dom=&x=1440&y=739&browser=Netscape>
- Where is the Data?
Golden Triangle Planning and Development District
Digital Globe (Imagery)
- Data Collection and Accountability

ECONOMIC IMPACT AT A LOCAL AND STATE LEVEL

An EF-4 Tornado touched down outside of Winston County, MS at 3:51 PM on April 28, 2014. This EF-4 tornado ran for a length of 35 miles, maximum span of 3/4 of a mile in width, wind speeds reaching 185 mph, 647 damaged structures (including the only County Hospital and Two Major Manufactures), 10 fatalities and unknown injuries.

CLARION-LEDGER

Nearly 1,000 Miss. jobs lost due to tornadoes

Clay Chandler and Jeff Ayres, The Clarion-Ledger 10:08 a.m. CDT May 9, 2014

Hundreds of jobs are temporarily gone, dozens of businesses destroyed or damaged in the hardest-hit areas, including Winston, Lee and Rankin counties



(Photo: Joe Ellis/The Clarion-Ledger)



The severe thunderstorms that battered Mississippi last week gashed the state's economic base as unequivocally as it did houses, vehicles and trees, in the form of hundreds of jobs at least temporarily gone along with dozens of businesses destroyed or heavily damaged statewide.

Gerald Mills estimates an EF-4 tornado that caused most of the storm's deaths stripped Winston County of 500 jobs, at least temporarily.

A lot of those were in Louisville's industrial complex. Teters Floral Products operated a warehouse that employed 100 people, and was severely damaged. Saving those jobs is a priority for Mills, executive director of the Winston County Economic Development District Partnership. Teters' parent company said in a statement on its website that it is still evaluating the extent of the damage.

Making sure scheduled jobs still arrive is another of Mills' priorities. Starting in June, Natron Wood Products was set to employ 200 people making plywood panels in the old Georgia Pacific facility.

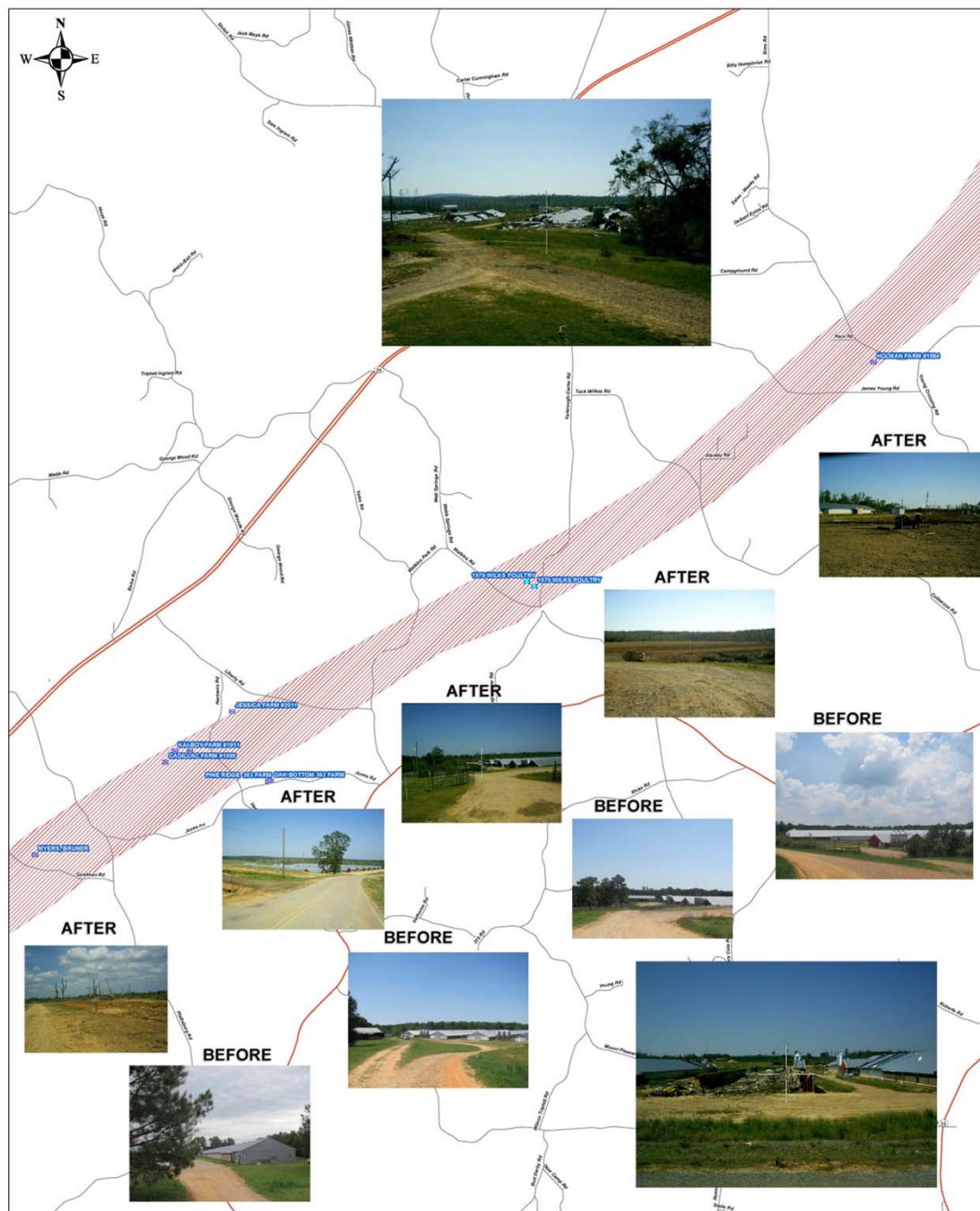
The 265,000 square-foot facility was heavily damaged. "But they've already promised to build back," Mills said. About 70,000 square feet of the building, which has been reduced to a slab and will house the mobile hospital that will temporarily replace the destroyed Winston Medical Center.

Teters Floral Products

- ❑ 5-10 million in revenue annually
- ❑ 100 employees
- ❑ Artificial Flowers

Winston County Medical Facility

- ❑ Served three surrounding counties
- ❑ 200 employees





NORTH CAROLINA MOBILE HOSPITAL



Winston County Medical Center
Mobile Hospital

























ADDRESS: 602 Armstrong St

COORDINATES:
LATITUDE: 33.10973331550002
LONGITUDE: -89.04629394199996

SUPERVISOR: 3

ROAD NAME: ARMSTRONG ST

COMMENT: ROOF DAMAGE

STRUCTURE: WOOD FRAME
ADDRESS TYPE: RESIDENCE
OWNER:
PARCEL OWNER: WORK JOHN ETUX
GEORGIA
PARCEL ID: 141220301 0100101

DAMAGE: LITTLE

TOTAL VALUE: 44629
PERCENT LOSS: 10%



ADDRESS:

COORDINATES:
LATITUDE: 33.109280615999999
LONGITUDE: -89.0466028300005

SUPERVISOR: 3

ROAD NAME: BEAL ST

COMMENT:

STRUCTURE: WOOD FRAME
ADDRESS TYPE: RESIDENCE
OWNER:
PARCEL OWNER: LOVE MARGIE E
PARCEL ID: 141220301 0200500

DAMAGE: COMPLETE

TOTAL VALUE: 13253
PERCENT LOSS: 100%



ADDRESS: 104 Beal St

COORDINATES:
LATITUDE: 33.109509316
LONGITUDE: -89.046917705300004

SUPERVISOR: 3

ROAD NAME: BEAL ST

COMMENT:

STRUCTURE: SWT
ADDRESS TYPE: RESIDENCE
OWNER:
PARCEL OWNER: MCDANIEL MARY
HUGHES ESTATE
PARCEL ID: 141220301 0300100

DAMAGE: COMPLETE

TOTAL VALUE: 37475
PERCENT LOSS: 100%



ADDRESS:

COORDINATES:
LATITUDE: 33.109173730899997
LONGITUDE: -89.04723467800001

SUPERVISOR: 3

ROAD NAME: BEAL ST

COMMENT:

STRUCTURE: BRICK
ADDRESS TYPE: BUSINESS
OWNER:
PARCEL OWNER: CALVARY APOS-
TOLIC CHURCH
PARCEL ID: 141220301 0301000

DAMAGE: COMPLETE

TOTAL VALUE: 0
PERCENT LOSS: 100%





ADDRESS: 105 Beal St
 COORDINATES:
 LATITUDE: 33.1089162046
 LONGITUDE: -89.046591501600005
 STRUCTURE: BRICK
 ADDRESS TYPE: RESIDENCE
 OWNER:
 PARCEL OWNER: BURRAGE GLORIA
 JEAN & TASHA S
 PARCEL ID: 141220301 0200600
 SUPERVISOR: 3
 ROAD NAME: BEAL ST
 COMMENT:
 DAMAGE: COMPLETE
 TOTAL VALUE: 28979
 PERCENT LOSS: 100%



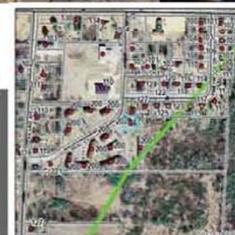
ADDRESS: 200 Beal St
 COORDINATES:
 LATITUDE: 33.108126928099999
 LONGITUDE: -89.046595073000006
 STRUCTURE: BRICK/SIDING
 ADDRESS TYPE: BUSINESS
 OWNER: THE REVIVAL APART-
 MENTS
 PARCEL OWNER: M & M INVEST-
 MENTS LLC
 PARCEL ID: 141220301 0101700
 SUPERVISOR: 3
 ROAD NAME: BEAL ST
 COMMENT:
 DAMAGE: COMPLETE
 TOTAL VALUE: 528329



ADDRESS: 110 Beal St
 COORDINATES:
 LATITUDE: 33.108553600900002
 LONGITUDE: -89.047240159200001
 STRUCTURE: BRICK
 ADDRESS TYPE: BUSINESS
 OWNER: WINSTON COUNTY MEDI-
 CAL CENTER
 PARCEL OWNER: CALVARY APOS-
 TOLIC CHURCH
 PARCEL ID: 141220301 0301000
 SUPERVISOR: 3
 ROAD NAME: BEAL ST
 COMMENT:
 DAMAGE: COMPLETE
 TOTAL VALUE: 0



ADDRESS: 200 Beal St
 COORDINATES:
 LATITUDE: 33.1079240754
 LONGITUDE: -89.046632996300005
 STRUCTURE: BRICK/SIDING
 ADDRESS TYPE: APARTMENTS
 OWNER: THE REVIVAL APART-
 MENTS
 PARCEL OWNER: M & M INVEST-
 MENTS LLC
 PARCEL ID: 141220301 0101700
 SUPERVISOR: 3
 ROAD NAME: BEAL ST
 COMMENT:
 DAMAGE: COMPLETE
 TOTAL VALUE: 528329





ADDRESS: **321 Birmingham St**
 STRUCTURE: **SIDING**
 ADDRESS TYPE: **RESIDENCE**
 OWNER:
 PARCEL OWNER: **MILLER KATIE**
 PARCEL ID: **151283401 0702200**

DAMAGE: **LITTLE**
 TOTAL VALUE: **23226**
 PERCENT LOSS: **30%**

COORDINATES:
 LATITUDE: **33.11746409860003**
 LONGITUDE: **-89.044665119900003**
 SUPERVISOR: **3**
 ROAD NAME: **BIRMINGHAM ST**
 COMMENT:



ADDRESS: **819 Brooksville Rd**
 STRUCTURE: **BRICK**
 ADDRESS TYPE: **RESIDENCE**
 OWNER:
 PARCEL OWNER: **BALL MARCOS**
 PARCEL ID: **151262301 0300900**

DAMAGE: **LITTLE**
 TOTAL VALUE: **104579**
 PERCENT LOSS: **30%**

COORDINATES:
 LATITUDE: **33.14789227899999**
 LONGITUDE: **-89.027554330100003**
 SUPERVISOR: **1**
 ROAD NAME: **BROOKSVILLE RD**
 COMMENT: **ROOF DAMAGE**



ADDRESS: **730 Brooksville Rd**
 STRUCTURE: **BRICK/SIDING**
 ADDRESS TYPE: **RESIDENCE**
 OWNER:
 PARCEL OWNER: **DONALD TROY ETUX MILDRED (LIFE EST)**
 PARCEL ID: **151262301 0400700**

DAMAGE: **SOME**
 TOTAL VALUE: **57590**
 PERCENT LOSS: **30%**

COORDINATES:
 LATITUDE: **33.146826194200003**
 LONGITUDE: **-89.028781636900007**
 SUPERVISOR: **1**
 ROAD NAME: **BROOKSVILLE RD**
 COMMENT: **ROOF DAMAGE**



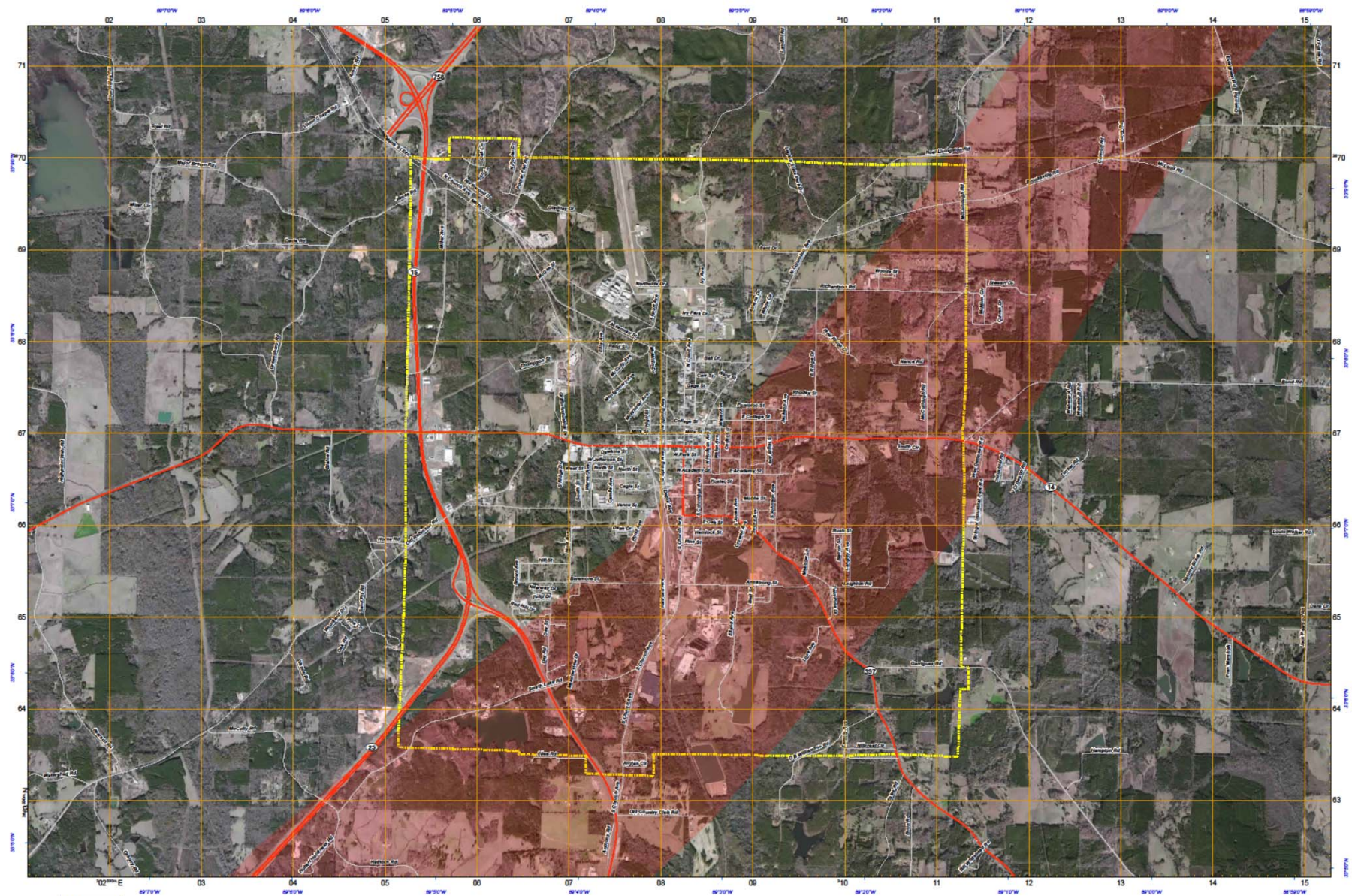
ADDRESS: **832 Brooksville Rd**
 STRUCTURE: **BRICK**
 ADDRESS TYPE: **RESIDENCE**
 OWNER: **DICKERSON**
 PARCEL OWNER: **DICKERSON IDA MAE**
 PARCEL ID: **151262301 0400600**

DAMAGE: **SEVERE**
 TOTAL VALUE: **57223**
 PERCENT LOSS: **90%**

COORDINATES:
 LATITUDE: **33.147127947800001**
 LONGITUDE: **-89.027073074900002**
 SUPERVISOR: **1**
 ROAD NAME: **BROOKSVILLE RD**
 COMMENT:







U.S. National Grid
100,000-m Square ID
CB
Grid Zone Designation
16S

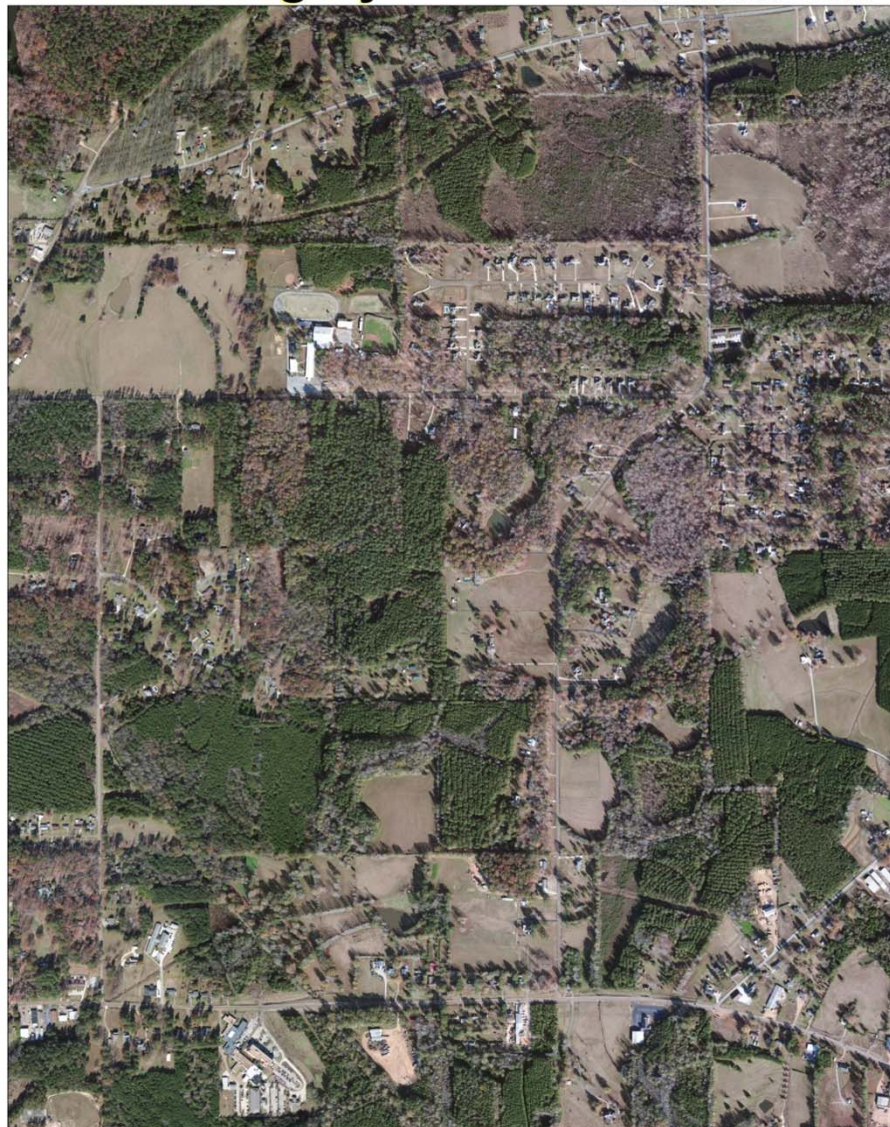
Grid Zone 16S
Magnetic Declination
1°31'53"W
Changing 6.9"/year
Declination Date 2014



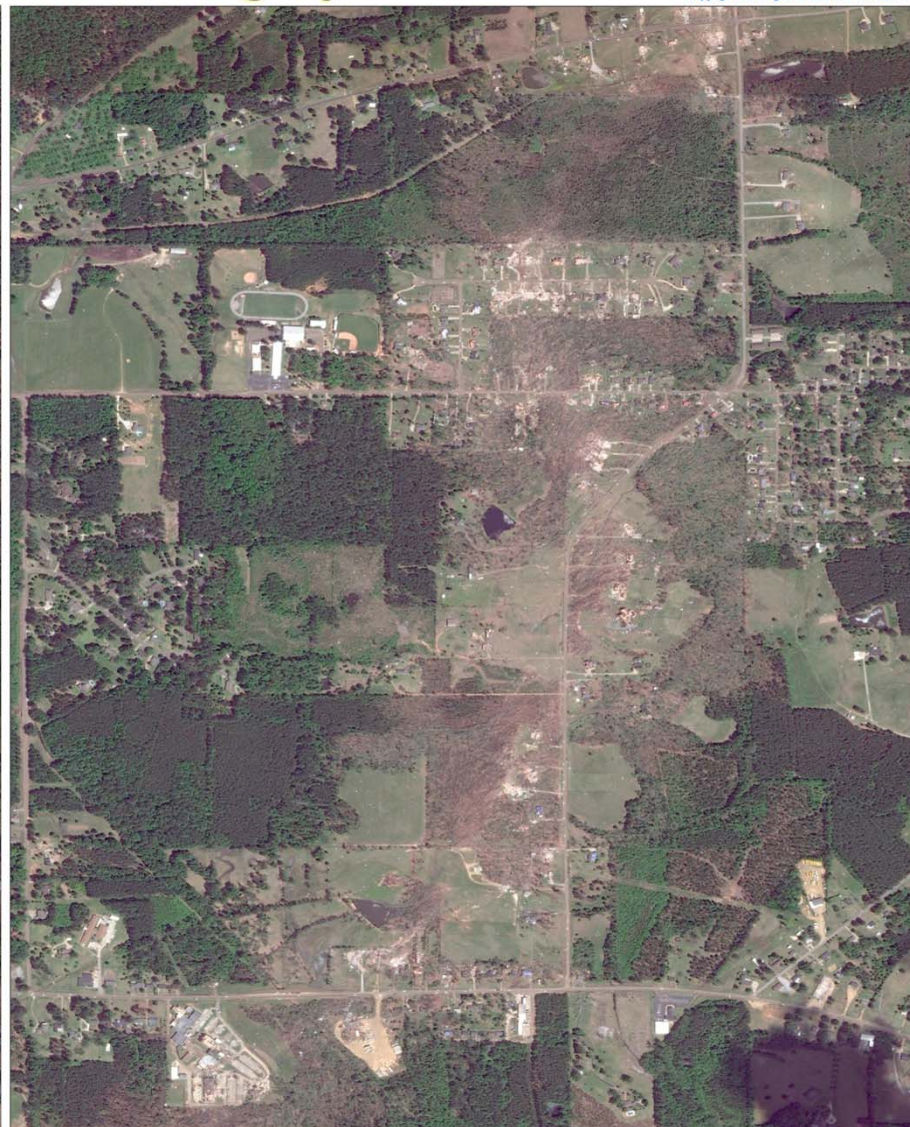
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LOUISVILLE, MS
WINSTON CO.

Before Imagery



After Imagery



Before Imagery

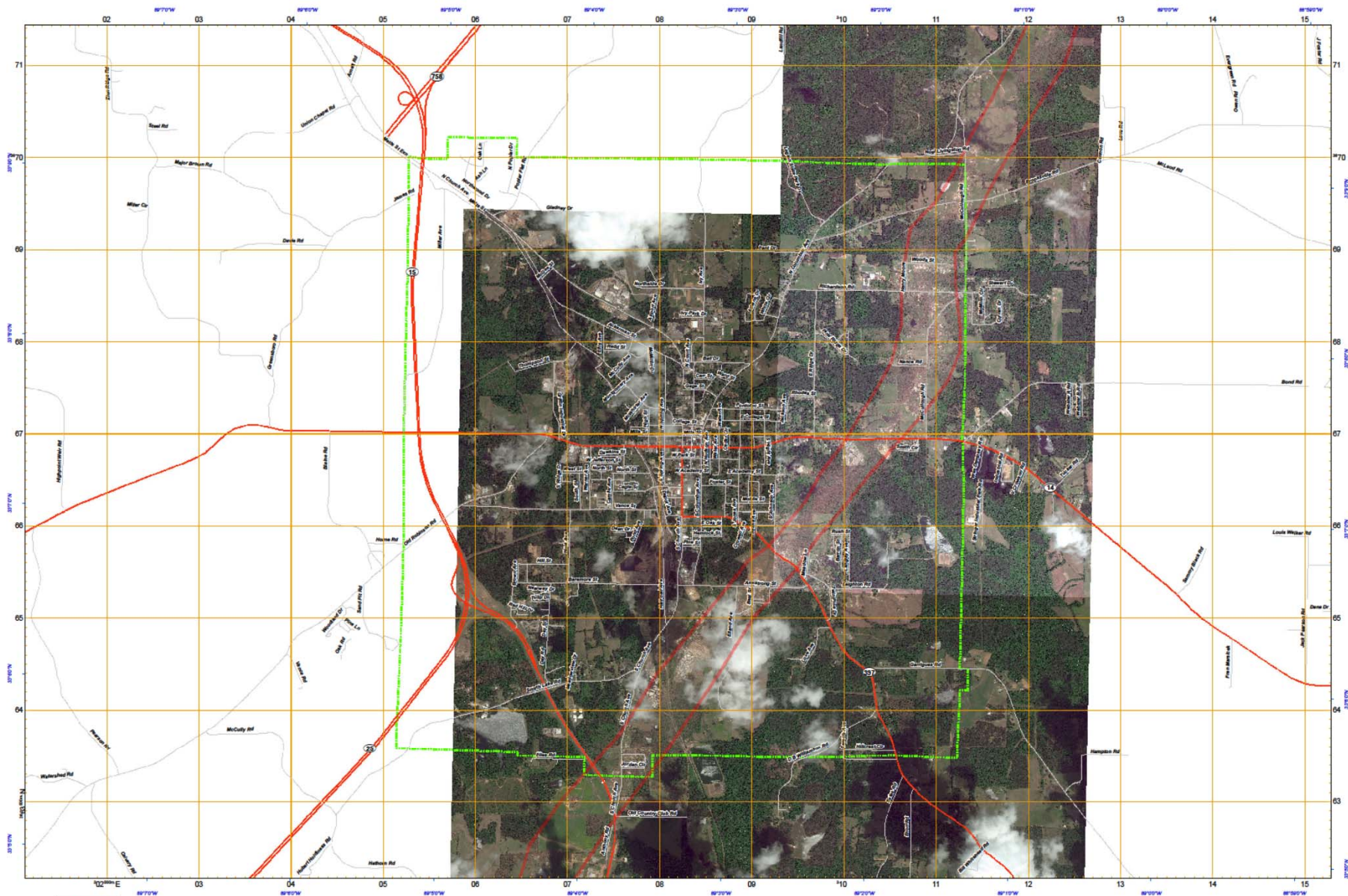
Service Layer Credits: Source: Esri, DigitalGlobe, GeoEye, i-cubed, USDA, USGS, AEX, Getmapping, Aerogrid, IGN, IGP, swisstopo, and the GIS User Community



After Imagery

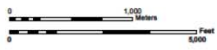
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U.S. National Grid
100,000' x 100,000' Square ID
CB
Grid Zone Designation
16S

Grid Zone 16S
Magnetic Declination
1°31'53"W
Changing 6.9"/year
Declination Date 2014

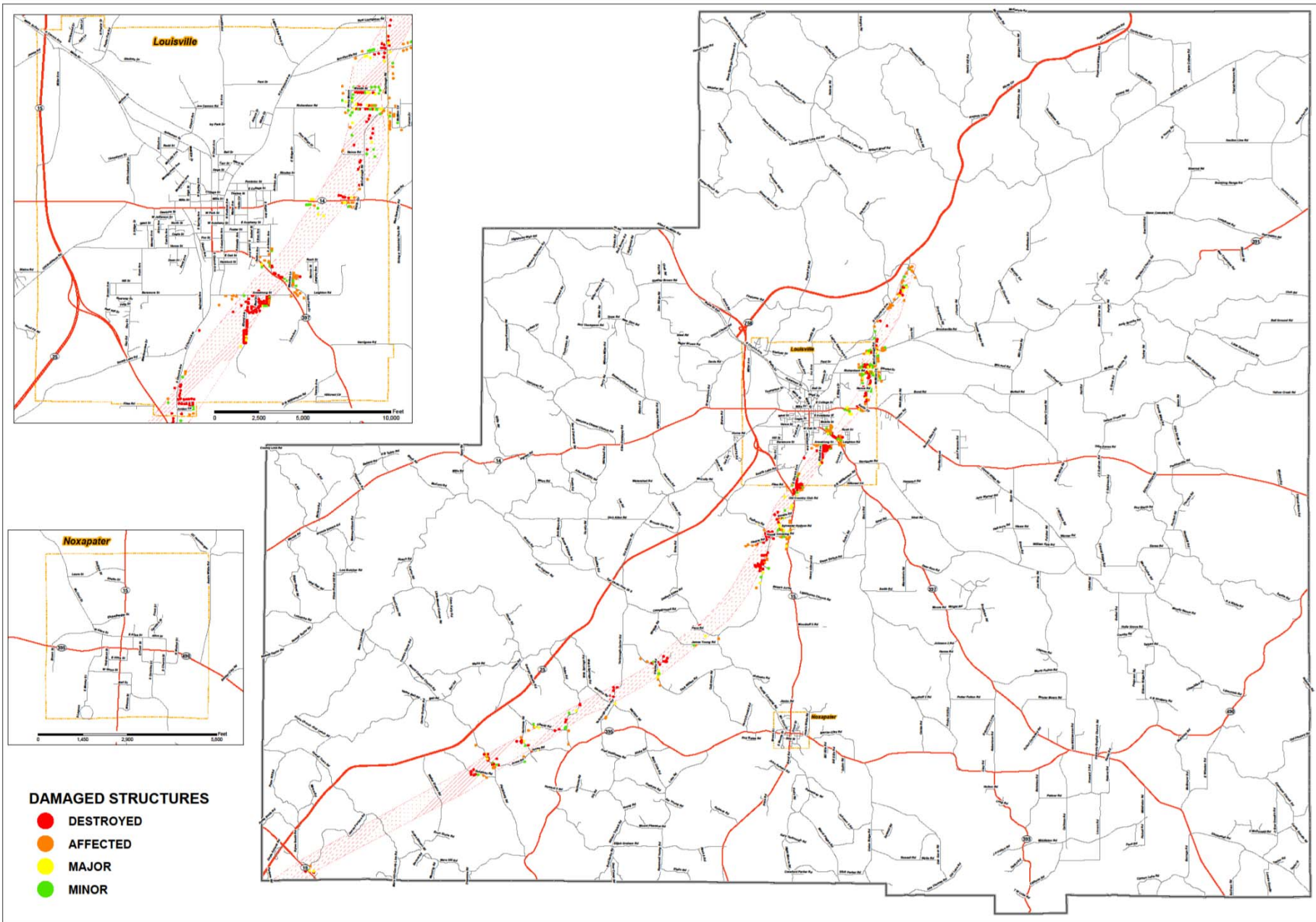


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LOUISVILLE, MS
WINSTON CO.

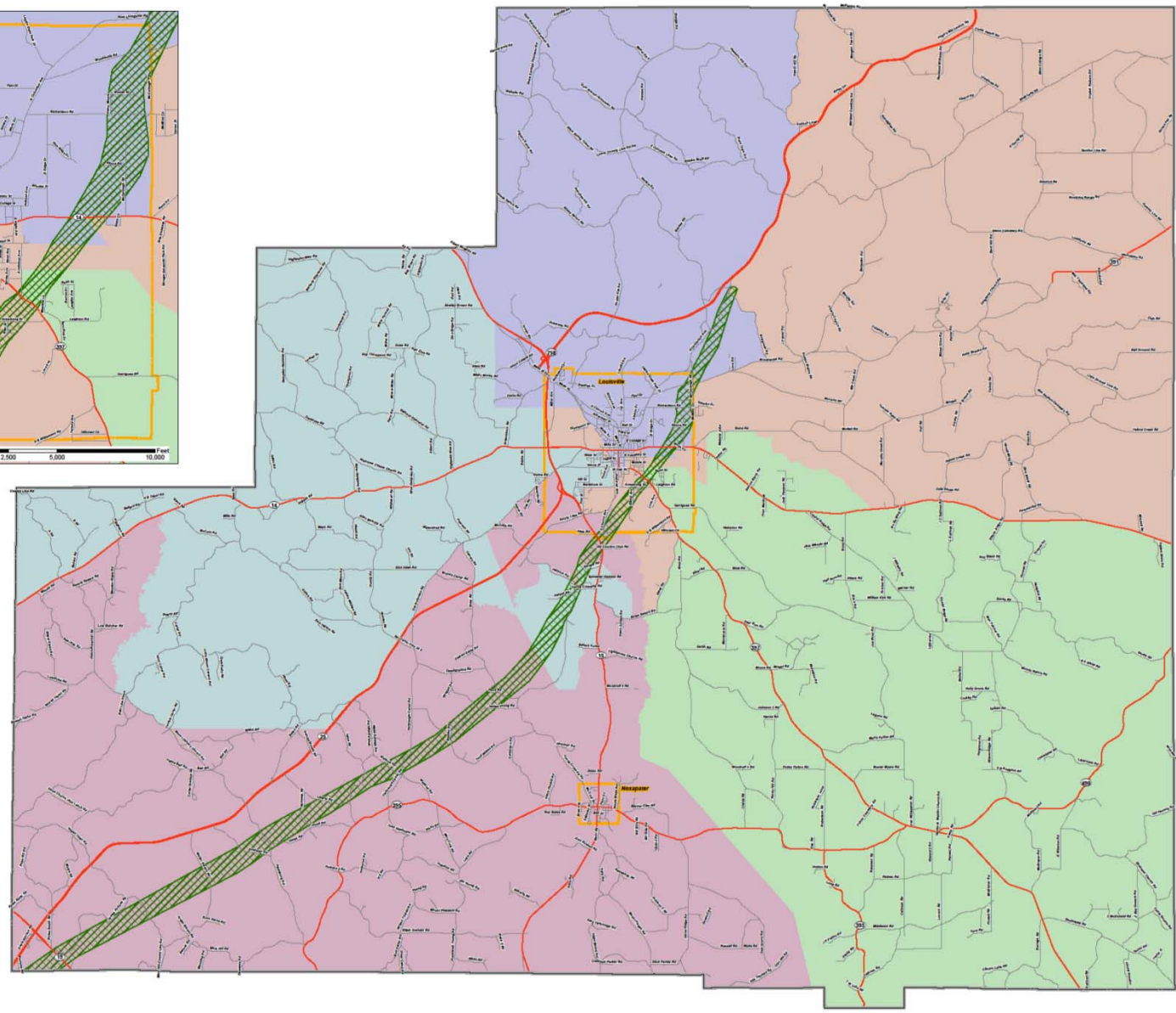
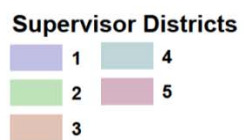
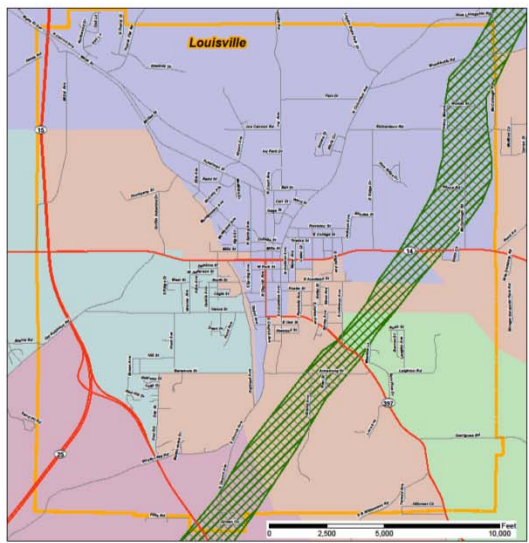
- Louisville Tornado Path
- Louisville Municipal Boundary

Imagery Provided by:
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Winston County, Mississippi

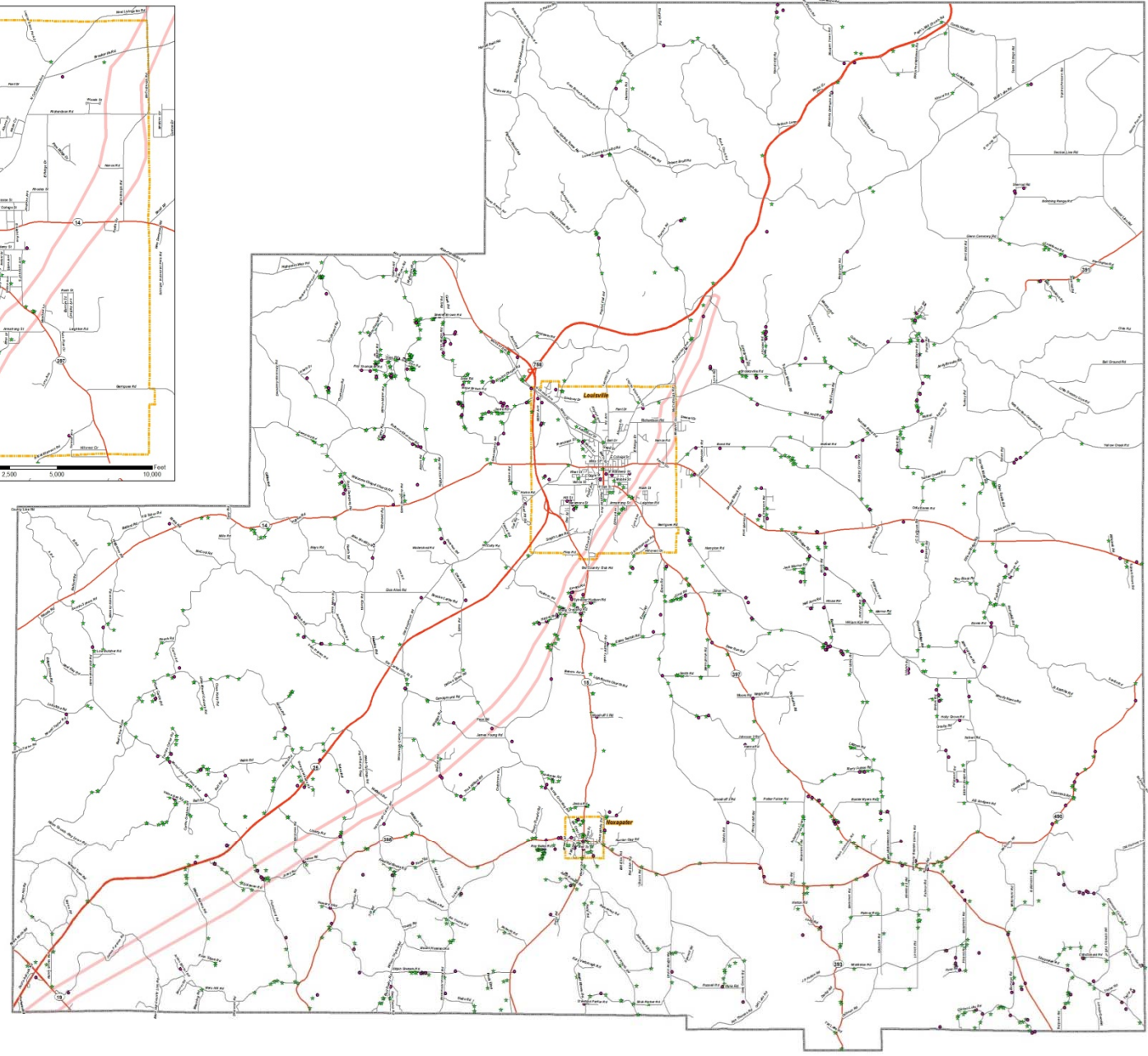
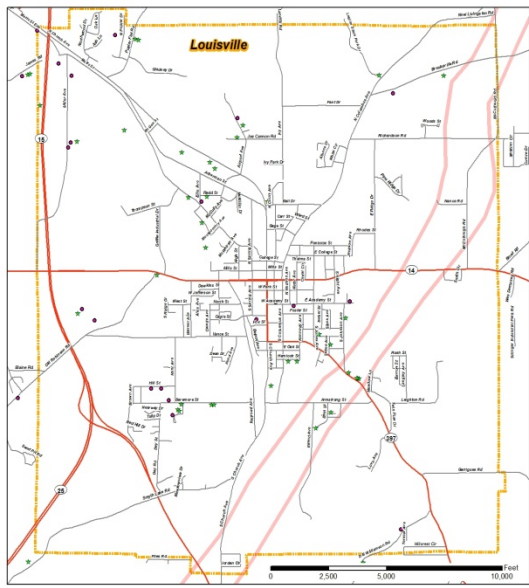
May 10, 2014



Louisville Tornado Path Winston County



May 10, 2014



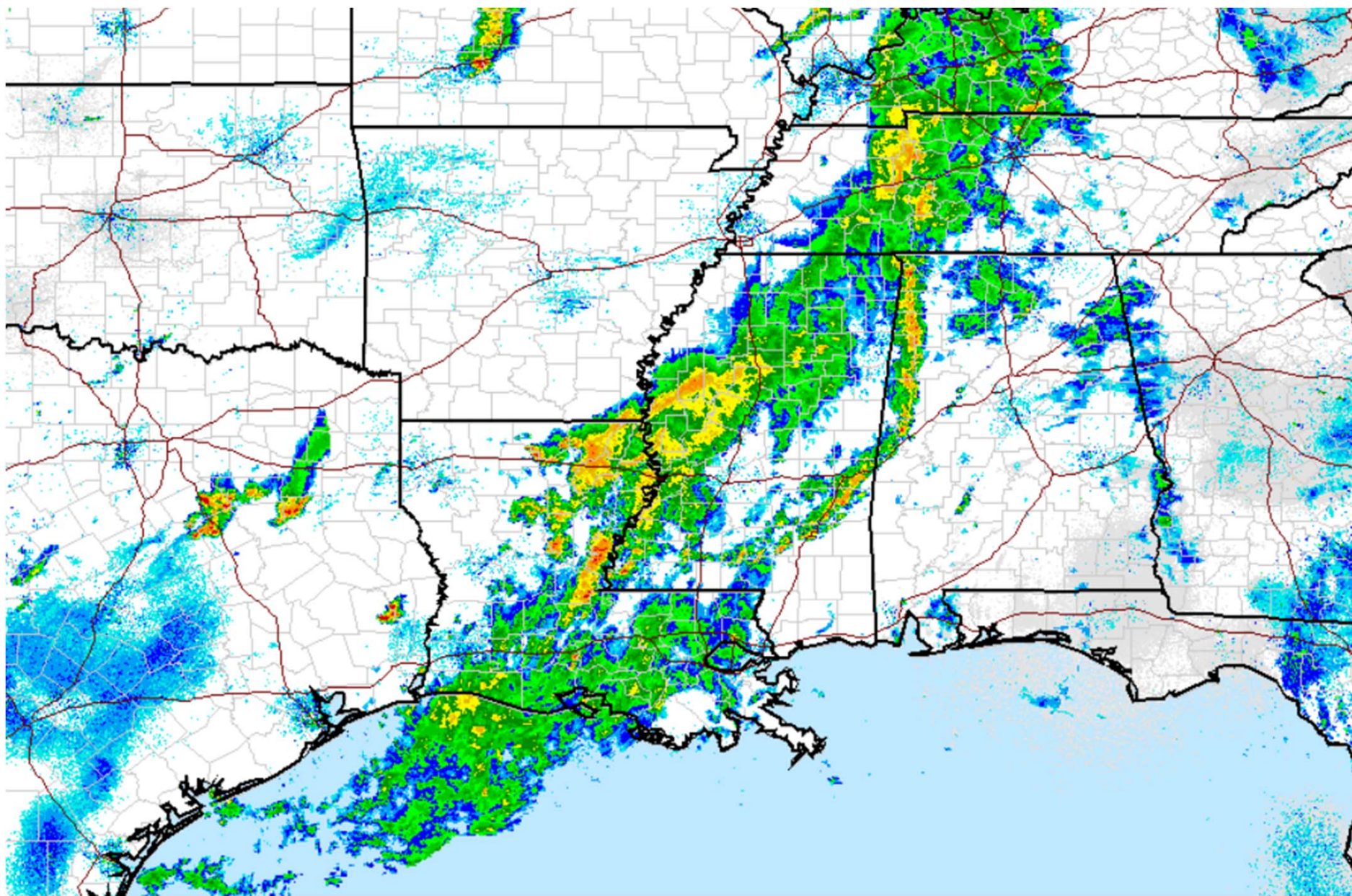
- Doublewide Trailer
- ★ Singlewide Trailer

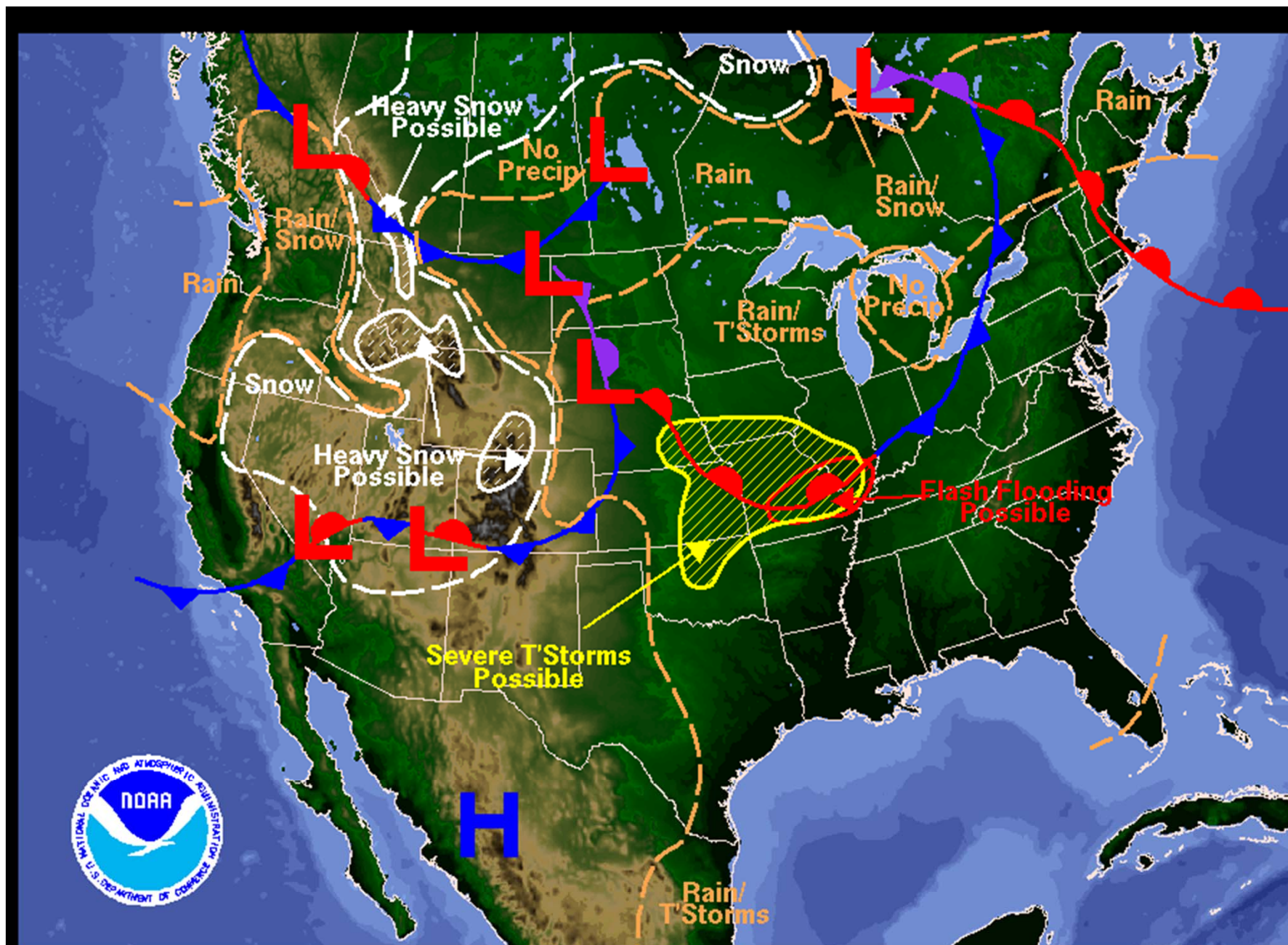


Louisville Tornado Path Winston County



May 4, 2014

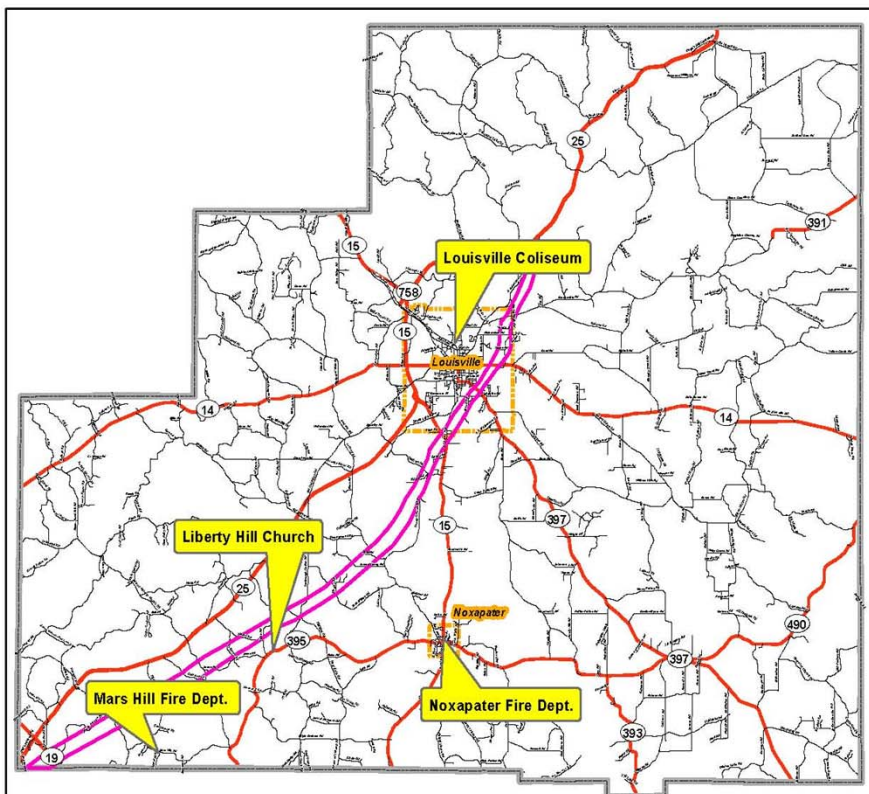




Weather Forecast for Sat, May 10, 2014, issued 10:44 AM EDT
DOC/NOAA/NWS/NCEP/Weather Prediction Center
Prepared by Hurley/Ryan based on WPC, SPC and NHC forecasts

300+ VOLUNTEER GROUPS

AND MORE FEMA KIDS THAN YOU
COULD COUNT.....



Mars Hill (Southern Winston County) Contact: Greg Sisson 662-312-0883

□*Mars Hill Fire Dept. 4416 Mars Hill Road, Philadelphia (will be open)

Noxapater Area – Contact: Steve Jones 662-803-3005

□*Liberty Baptist Church – 6343 Hwy 395, Noxapater, (call contact number first)

□* Noxapater Fire Department – 145 West Main Street, Noxapater

Louisville City -Contact: Randall Livingston 662-803-8393

□*Coliseum – 201 Ivy Avenue, Louisville

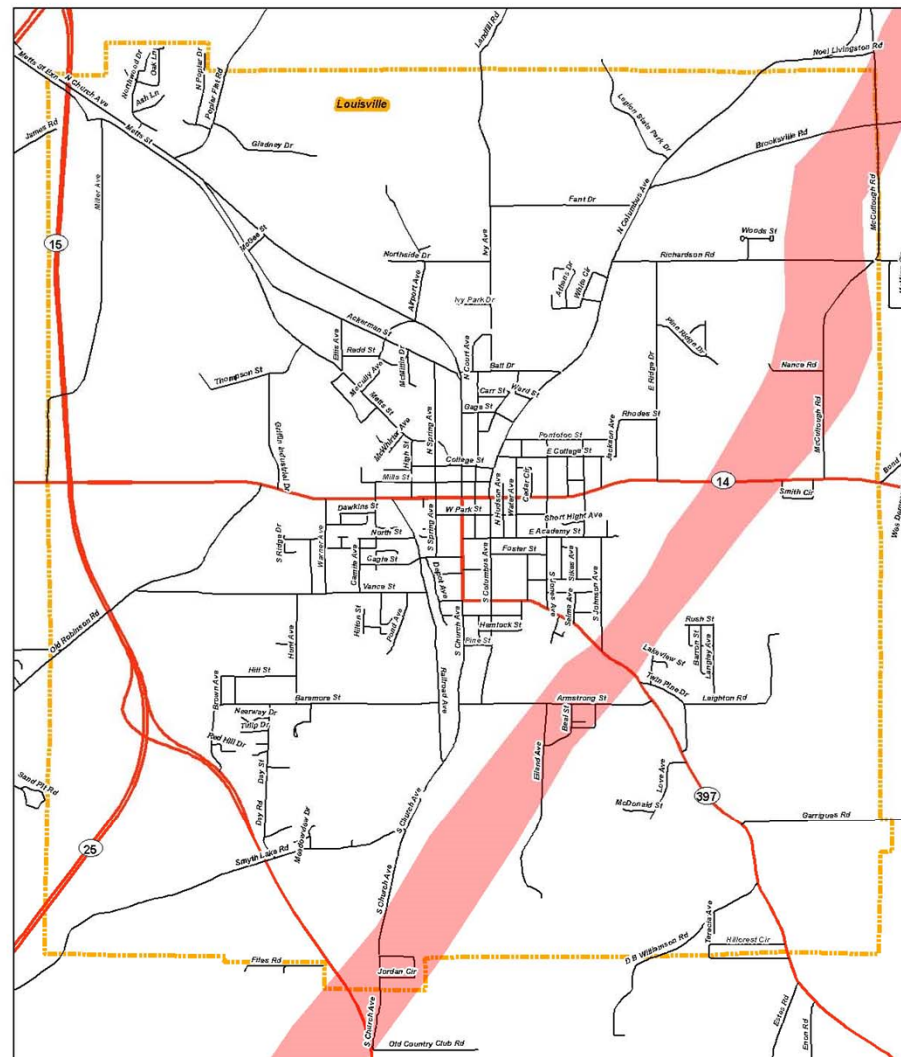
May 8, 2014

INCLEMENT WEATHER SHELTERS
WINSTON COUNTY, MS



SCAN CODE TO GET AN ORIGINAL COPY

0 1 2 4 6 8 10 Miles



May 4, 2014

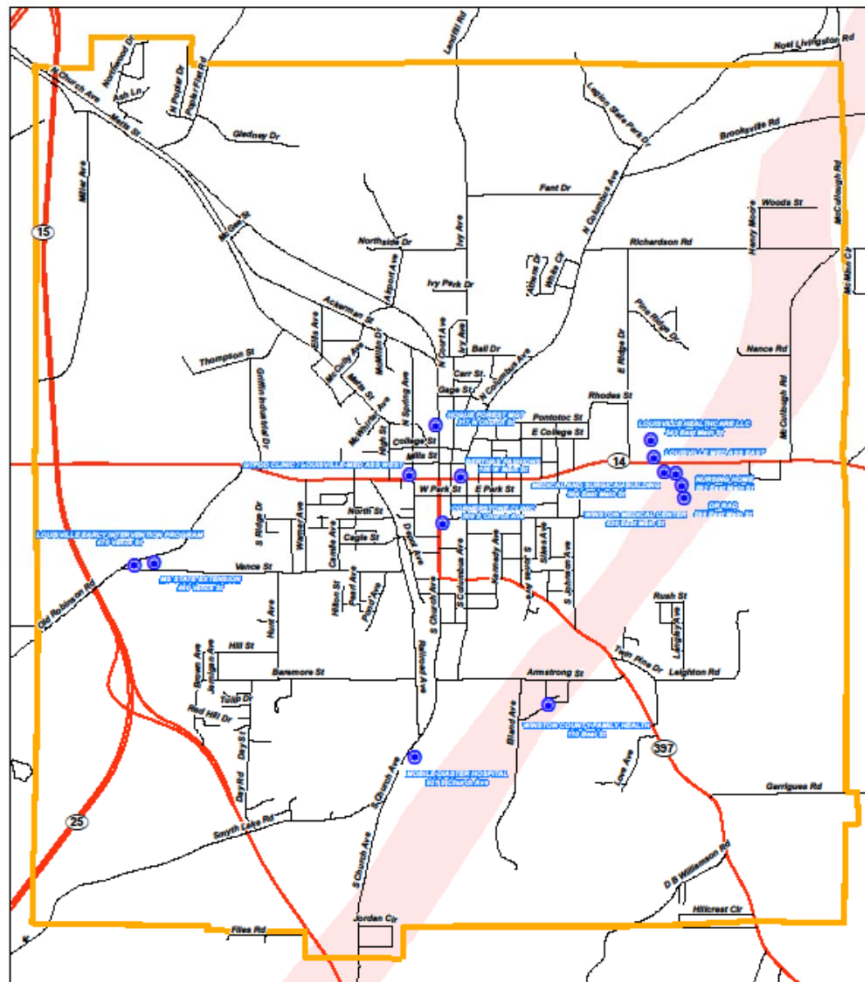
TORNADO PATH
LOUISVILLE, MS



SCAN CODE TO GET AN ORIGINAL COPY

0 0.25 0.5 1 Miles





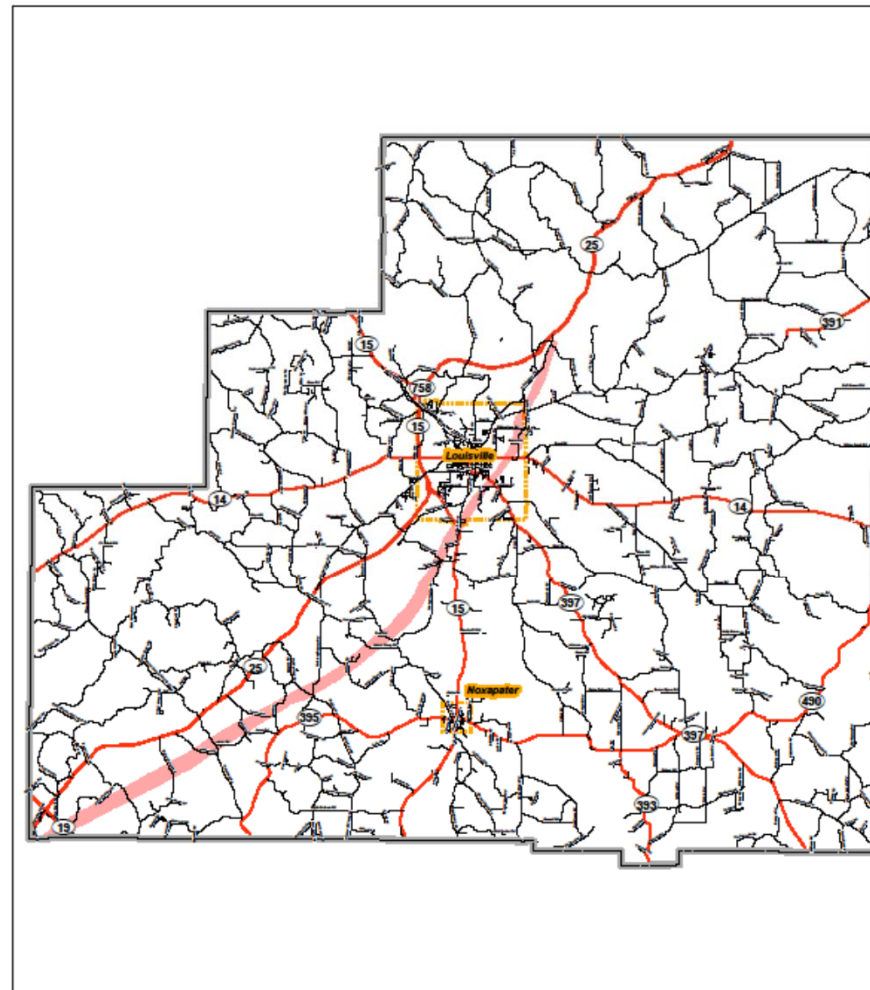
**MEDICAL FACILITIES
LOUISVILLE, TN**



www.foxcarolina.com

0 0.5 1 Miles

May 8, 2014



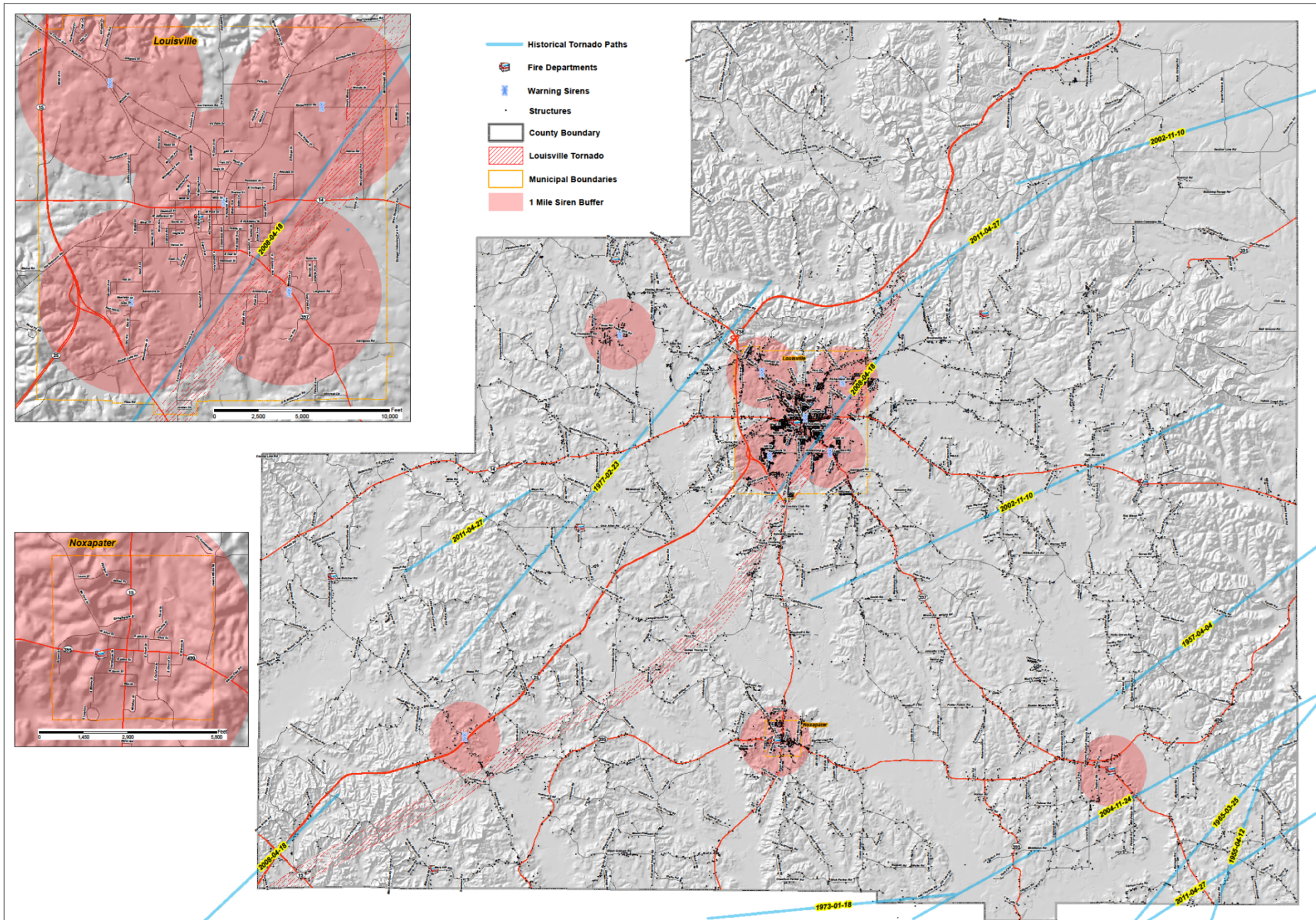
**TORNADO PATH
WINSTON COUNTY, MS**



www.foxcarolina.com

0 1 2 4 6 8 10 Miles

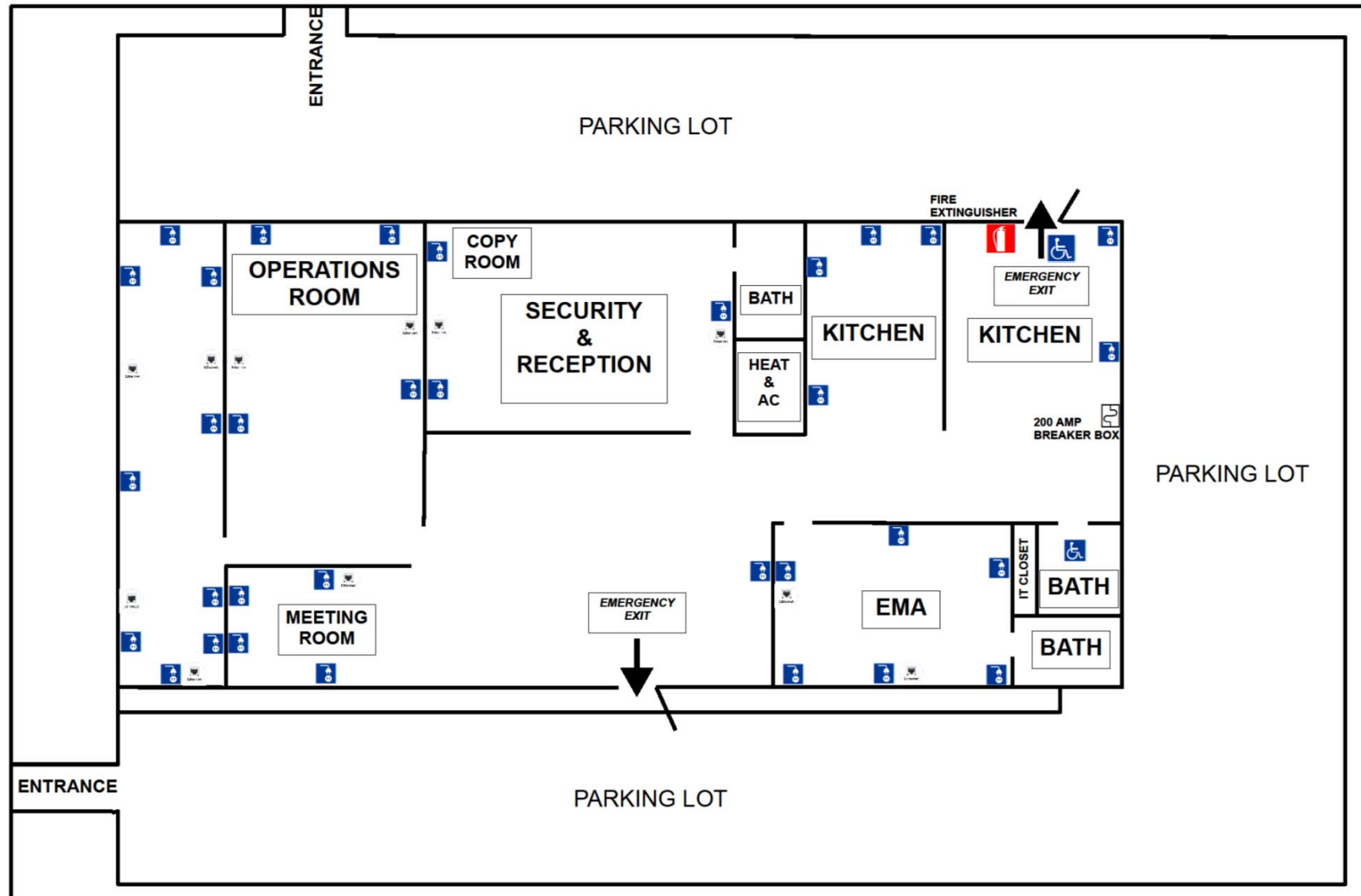
May 4, 2014

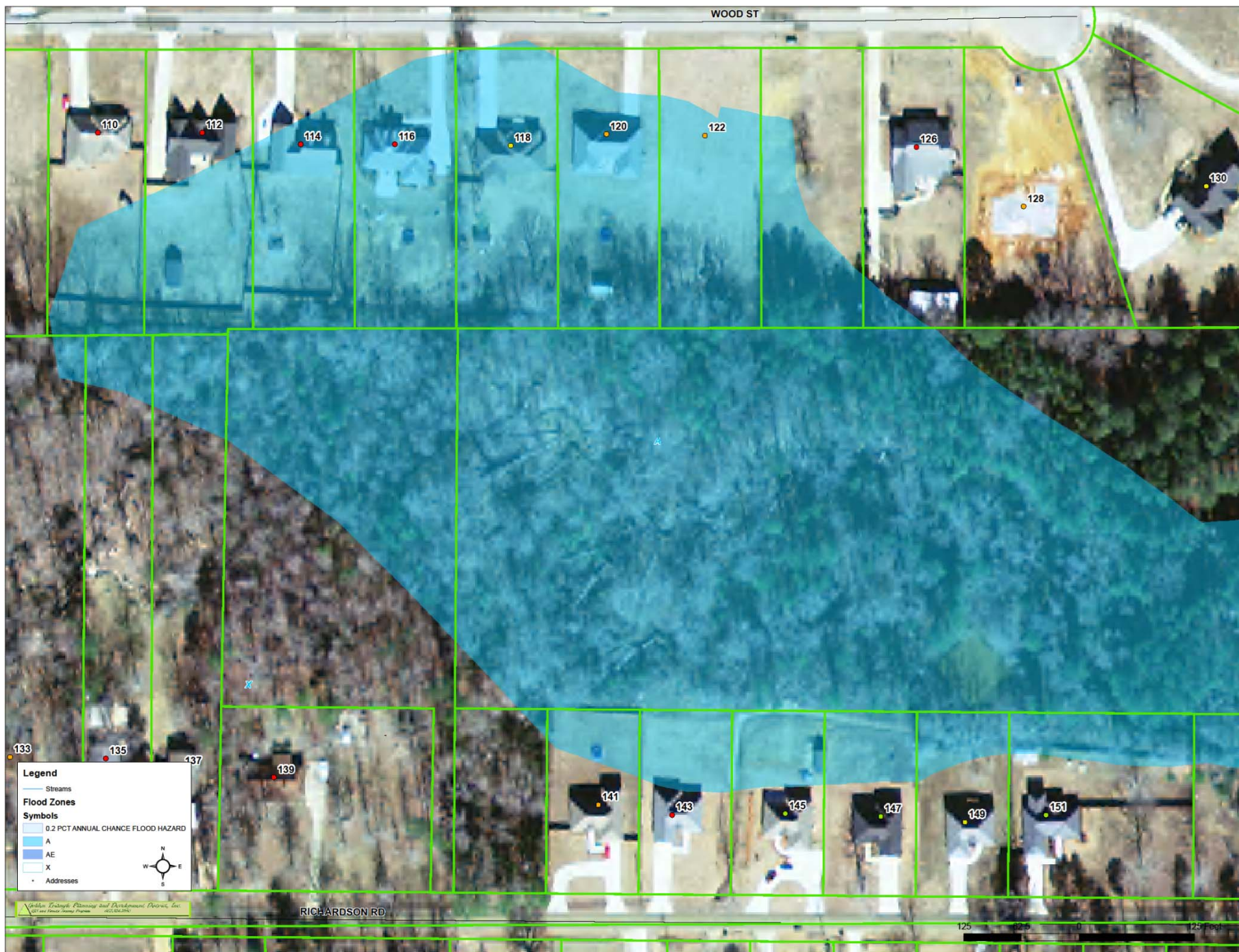


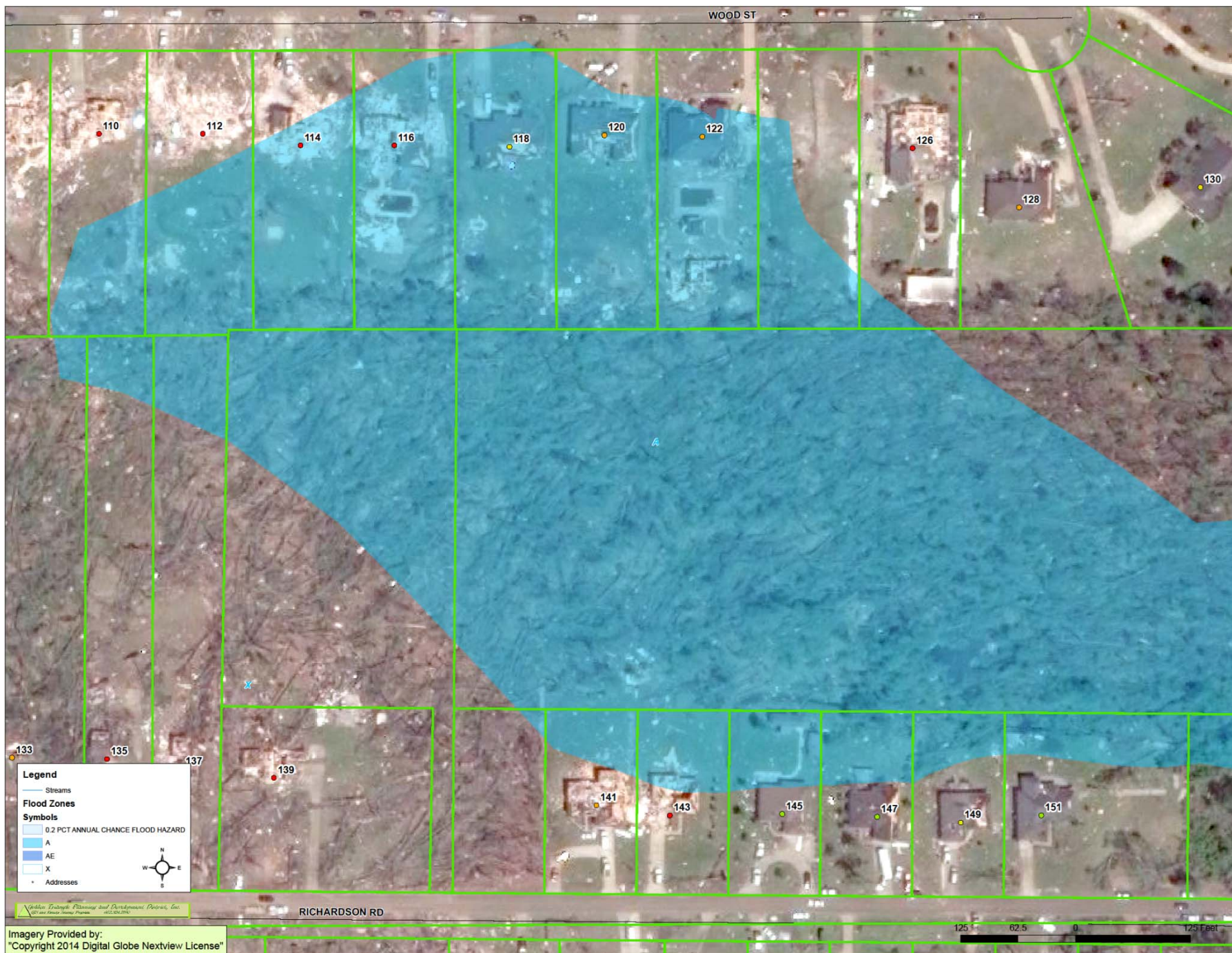
Winston County

Emergency Operations Center

750 N Church St.







AFTER ACTION REPORT

Major Strengths

The major strengths identified during this Event are as follows:

- The Ability to Produce Map Products in a Timely Manner
- Understanding GIS Capabilities by IMT Members
- Quality of GIS Data Available for the Event Area.

AFTER ACTION REPORT

Primary Areas for Improvement

Throughout the event, several opportunities for improvement in MEMA's ability to respond to the incident were identified. The primary areas for improvement, including recommendations, are as follows:

- **Additional Personnel: GIS Analyst, GIS Technician, & Coordinator (Ideal Situation)**
- **Educate Emergency Management Personnel on GIS Capabilities (Create and Implement Statewide GIS Outreach Plan)**
- **The need for establishing standardized mapping products and procedures.**
- **Establish a Standard Job Description for GIS Professionals within an IMT, Including a Field Operating Guide.**
- **Define and Establish Key Functions for Situational Events to be added to the Field Operating Guide.**

ANY QUESTIONS?

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DeSoto County, Mississippi

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901-371-1113