

# FEMA Geospatial Framework

GPS Applications for Disaster Management



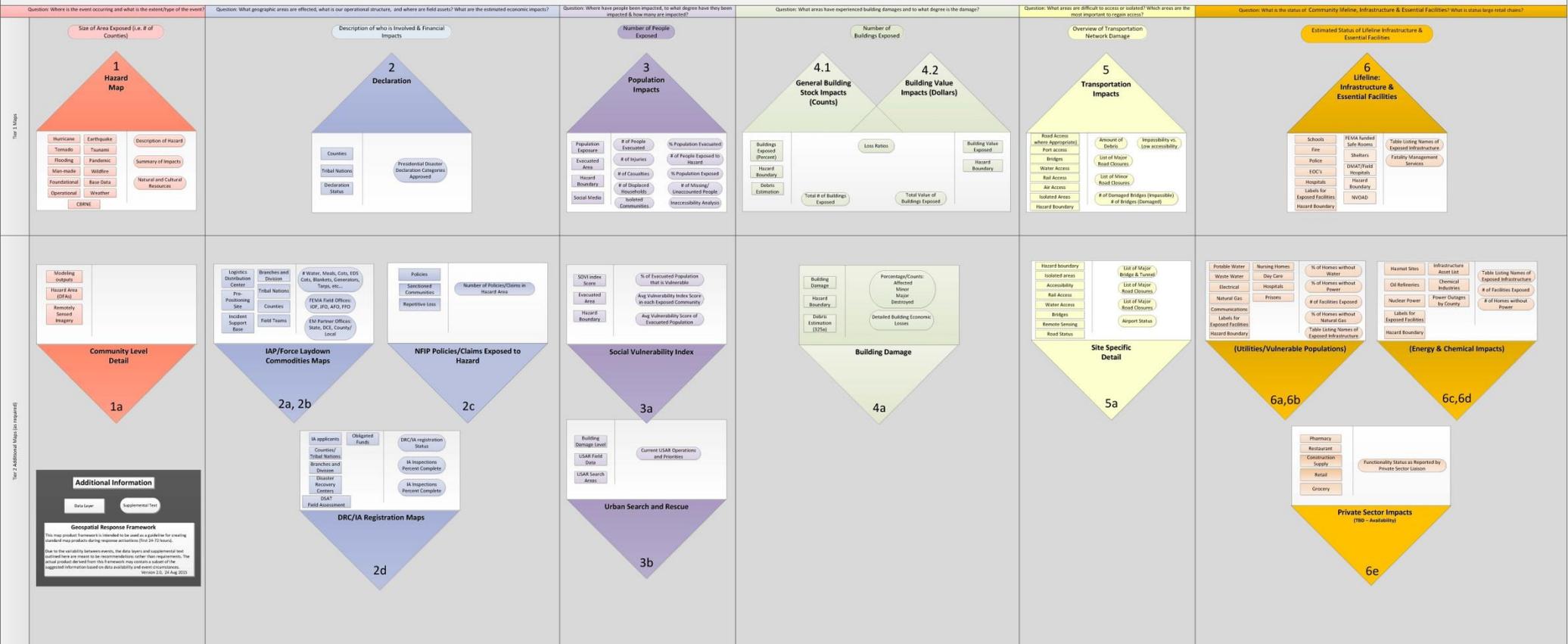
# FEMA

October 13, 2015



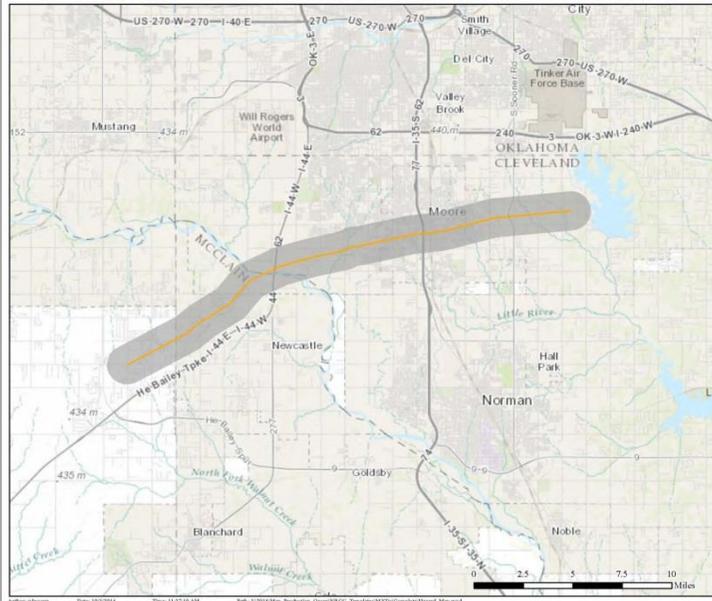
# Production Framework

## FEMA Geospatial Framework



### Hazard Map: (03 October 2014, 1100 EST) FEMA-XXXX-DR-ST

Map 2  
FEMA



**Data Layer / Map Description:**  
Overview of the area affected by the event.

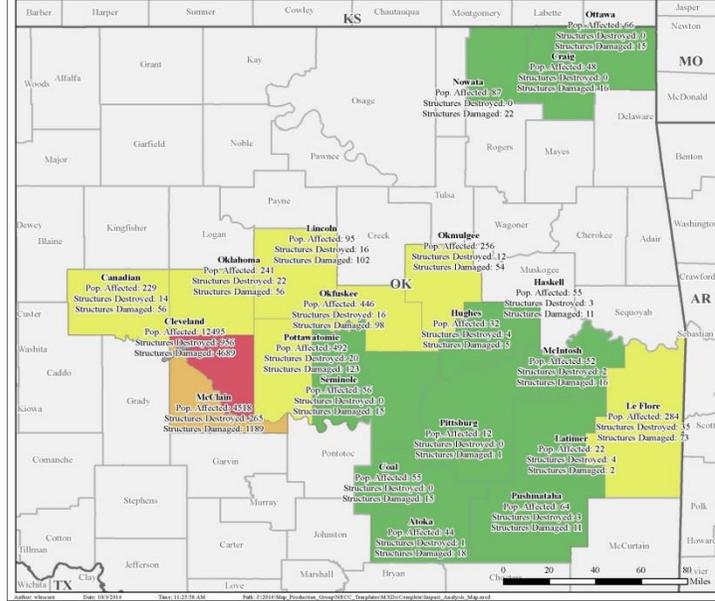
Tornado path as reported by NOAA/NWS Storm Prediction Center as of 12 September, 2014 1200 EST

- Tornado Path
- Area of Impact

**Data Sources:**  
FEMA, HSIP, ESRI;  
Datum: WGS 1984  
Projection: Mercator  
Data Updated: 20 May 2013, 1500 EST

### Impact Analysis Map: (03 October 2014, 1100 EST) FEMA-XXXX-DR-ST

Map 1  
FEMA



**Data Layer / Map Description:**  
County level analysis of the event's impact.

- Mile Buffer Around Tornado Track
- Level of Impact\*
  - Very High
  - High
  - Moderate
  - Low

\*Impact rankings were estimated based on the Jurisdiction Loss Ratio. This is calculated as the number of directly damaged households divided by the total number of households for each jurisdiction.

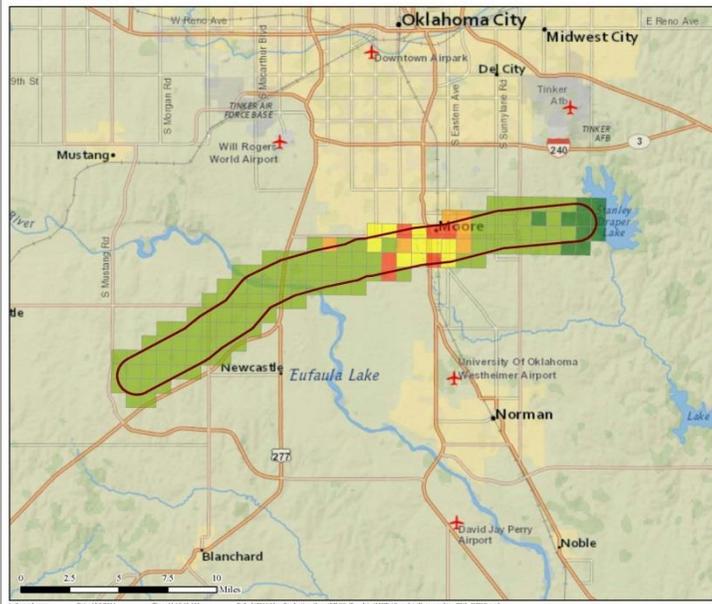
**Very High:** >1% households damaged  
**High:** 0.28% - 1% households damaged  
**Moderate:** 0% - 0.25% households damaged  
**Low:** 0% households damaged

**Affected Area:** 137 Communities  
**Declaration:** 21 Counties  
**Affected Population:** 19,649  
**Affected Parcels:** 7,284  
**Major Road Closures:** 135 between W 12th Street and Clark Rd.  
**Impacted Critical Infrastructure:** 2 Schools  
**Operational Mass Care Facilities:** Surgical Hospital of Oklahoma, Mid Western Regional Medical Center, 11 Shelters

**Data Sources:**  
FEMA, HSIP, ESRI;  
Datum: WGS 1984  
Projection: Mercator  
Data Updated: 20 May 2013, 1500 EST

### Demographic Map: (03 October 2014, 1100 EST) FEMA-4117-DR-OK

Map 4  
FEMA



**Data Layer/Map Description:**  
Population affected by the event. The number of individuals who live in the impacted region, estimated by using a mile buffer and a half mile buffer around the storm track to select population and housing units based on Landscan data, summarized by the USNG.

**Population Per 1 KM USNG**

- 0
- 1 - 500
- 501 - 1000
- 1001 - 1500
- 1501 - 3158

Area of Impact

**Number of casualties: 646**  
**Missing/unaccounted people: 6**  
**Number of injuries: 38**  
**Displaced households: 26,256**  
**People evacuated: 887**  
**People exposed to the hazard: 74,425**  
**Housing units exposed to the hazard: 28,278**  
**Percent population evacuated: 1%**  
**Percent population exposed: 14%**

**Data Sources:**  
FEMA, HSIP, ESRI, Landscan;  
Datum: WGS 1984  
Projection: Mercator  
Data Updated: 20 May 2013, 1500 EST

### Transportation Map: (03 October 2014, 1100 EST) FEMA-XXXX-DR-ST

Map 6  
FEMA



**Data Layer/Map Description:**  
An overview of the transportation network in the incident vicinity to support safe transportation. This map is used to facilitate delivery of equipment, supplies, and personnel to and from the incident location.

**Major Airport Status**

- Closed
- Limited Operation
- Open

**Road Status**

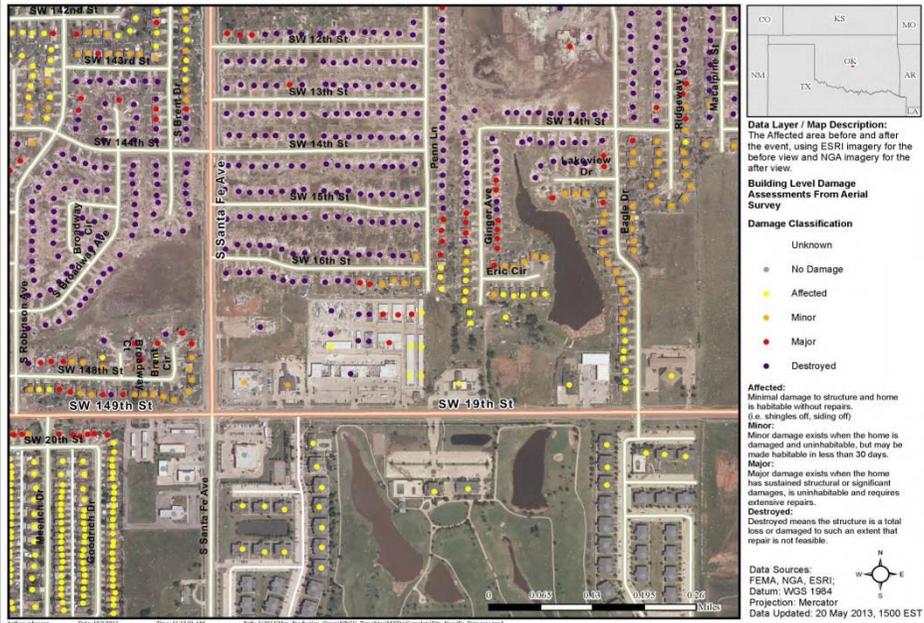
- Closed
- Limited Operation
- Open
- Tornado Path
- Area of Impact

**Road closed. Covered with debris between E 15th Road and Highway 62.**

**Data Sources:**  
FEMA, HSIP, ESRI;  
Datum: WGS 1984  
Projection: Mercator  
Data Updated: 20 May 2013, 1500 EST

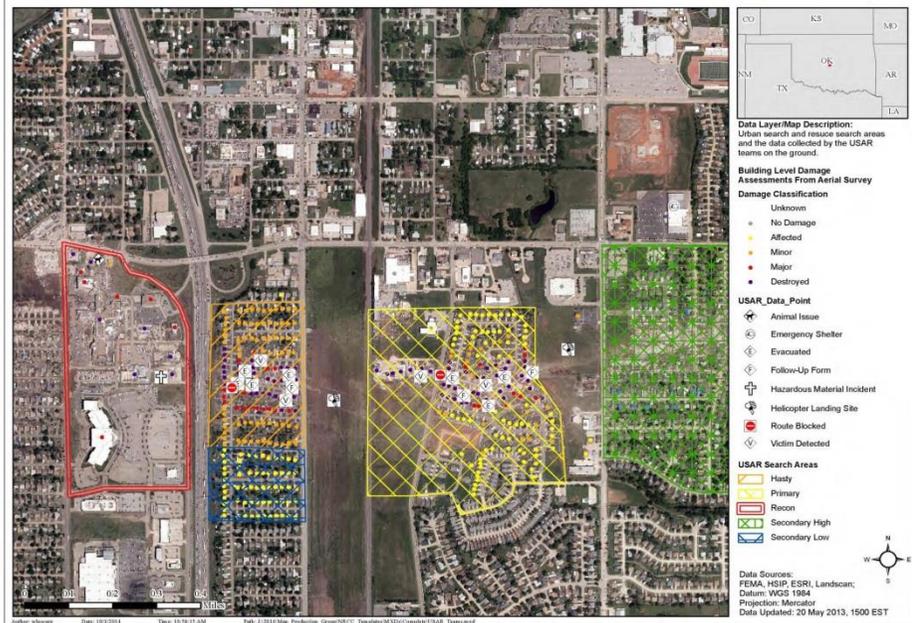
### Site Specific Damages Map: (03 October 2014, 1100 EST)

FEMA-XXXX-DR-ST



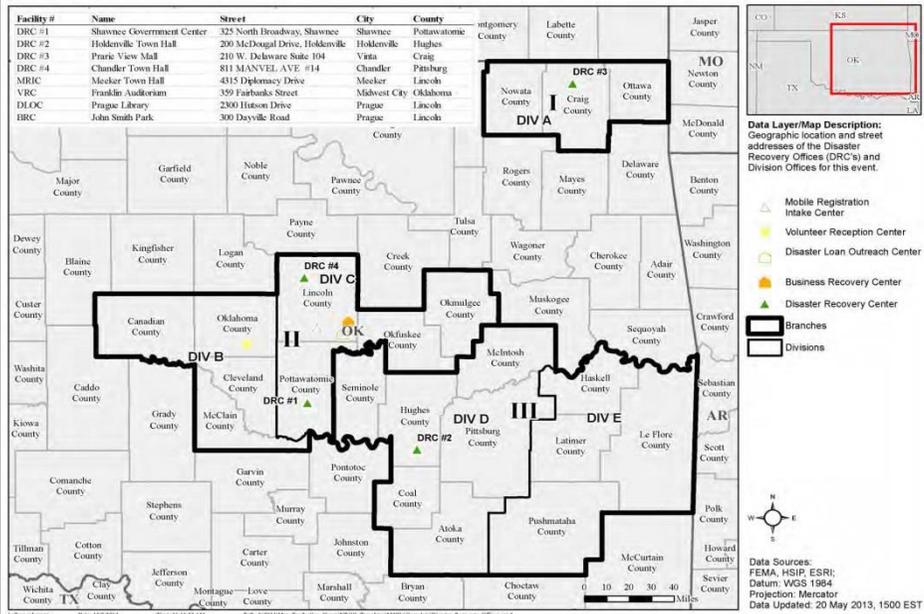
### USAR Team Map: (03 October 2014, 1000 EST)

FEMA-4117-DR-OK



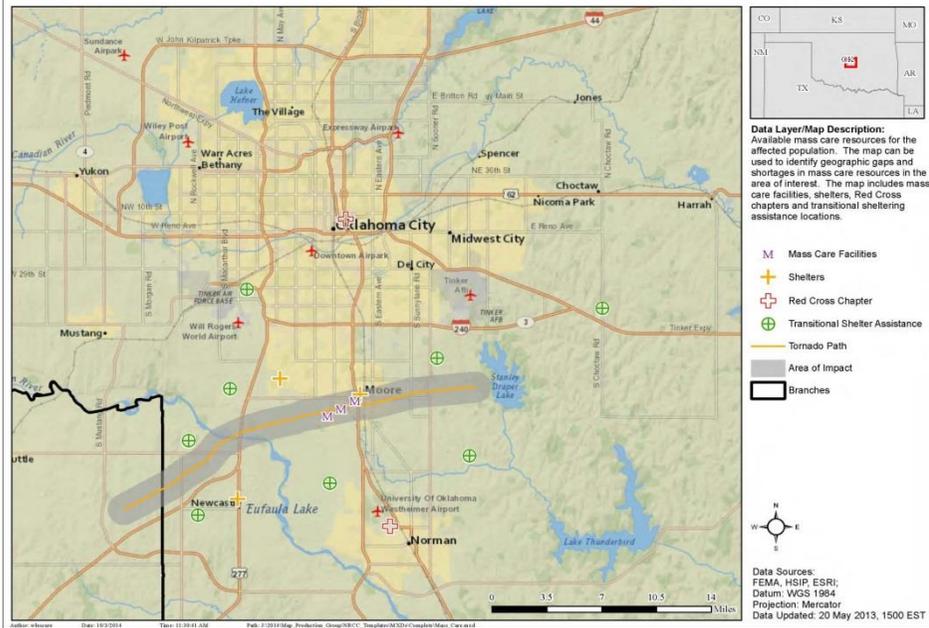
### Disaster Recovery Centers: (03 October 2014, 1100 EST)

FEMA-XXXX-DR-ST



### Mass Care Resources Map: (03 October 2014, 1100 EST)

FEMA-XXXX-DR-ST





# FEMA

# FEMA GeoPlatform

Providing geospatial data and analytics in support of e



Advisory Base Flood Elevations Map



FEMA MOTF-Hurricane Sandy Impact Analysis



FEMA is a partner of the FGDC's

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