

# AFTER ACTION REVIEW

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## TORNADO

### 10 February, 2009

Personally I am always ready to learn, although I do not always like being taught.

Winston Churchill, Sir (1874-1965)

# Overview

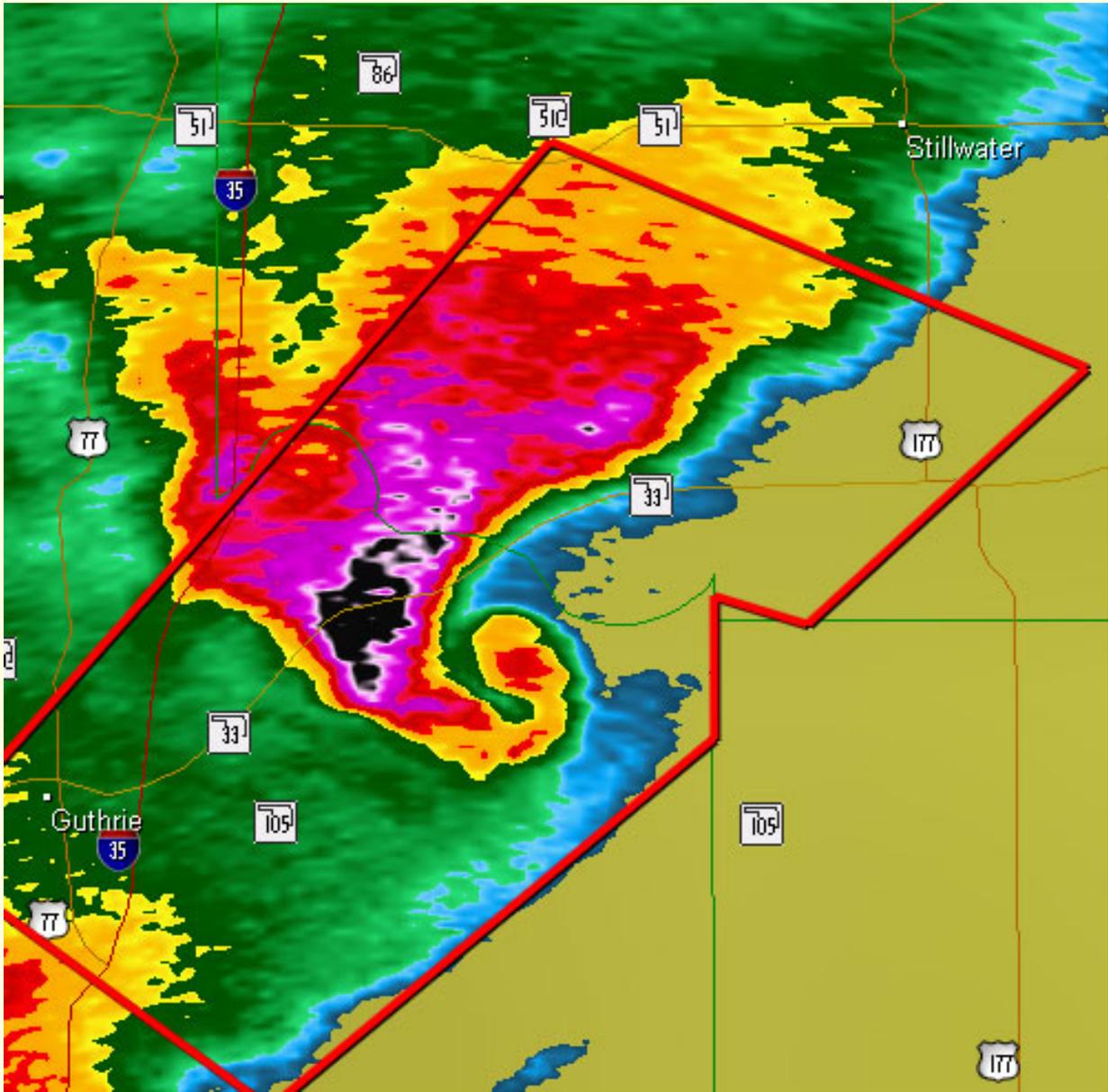
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- **Introductions**
- **Summary of the Tornado**
- **Our efforts**
  - **What happened**
  - **What should have happened**
- **Summary**

# Introductions

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- **Doug, Tim, Randy and Mike!**
  - **Name**
  - **Organization**
  - **Role, location and involvement in the tornado**



# Scope of the incident

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- **EF2 Tornado**
- **75 yards wide and 6.5 miles long**
- **Impact**
  - **Schools locked down for hours.**
  - **Eight homes destroyed!**
  - **Power lines down.**
  - **Streets closed. Accesses blocked.**
  - **Lots of debris and paperwork!**
- **Duration? Response and Recovery... months!**

## February 10, 2009 NWS Norman Event and Product Chronology

| Time      | Product Name                 | Location  | County   | Remarks              |
|-----------|------------------------------|---|----------|----------------------|
| 1437      | <b>Tornado 1 Develops</b>    | 2 NNW War Acres   | Oklahoma |                      |
| 1438      | <b>Tornado 1 Dissipates</b>  | 2 NNW War Acres   | Oklahoma |                      |
| 1440      | 2.00" Hail                   | 5 NE Yukon  | Canadian |                      |
| 1442      | 2.75" Hail                   | 4 N Bethany   | Oklahoma |                      |
| 1443      | Significant Weather Advisory | Kay, Logan, Noble, Payne                                      |          |                      |
| 1443      | 0.88" Hail                   | Yukon   | Canadian | I-40 and Mustang Rd. |
| 1444-1515 | Tornado Warning              | Northwest Oklahoma, Southern Logan                            |          |                      |
| 1448      | 1st Reports of Damage        | 3 WSW Edmond  | Oklahoma | 149 - 156th/Penn     |
| 1450      | 1.00" Hail                   | 4 NW Edmond   | Oklahoma |                      |
| 1451      | SVS - Tornado                | Northwest Oklahoma, Southern Logan                            |          |                      |
| 1453      | Area Weather Update          | Northern, Central, and Southern Oklahoma, Western North Texas |          |                      |
| 1453      | <b>Tornado 2 Develops</b>    | 3 WNW Edmond  | Oklahoma | 192nd/Western Avenue |
| 1455      | 1.25" Hail                   | 3 WNW Apache  | Caddo    |                      |
| 1456-1545 | Severe Thunderstorm          | Canadian, Western Oklahoma, Kingfisher, Western Logan         |          |                      |
| 1457      | 1.75" Hail                   | Indiahoma   | Comanche |                      |
| 1459      | SVS - Tornado                | Northern Oklahoma, Southern Logan                             |          |                      |

**1321** ← **Email sent to "all users"**

## February 10, 2009 NWS Norman Event and Product Chronology

| Time        | Product Name                        | Location  | County          | Remarks                                     |
|-------------|-------------------------------------|---|-----------------|---|
| <b>1436</b> | <b>EOC Opened</b>                   |   |                 |   |
| <b>1436</b> | <b>Another email to "all users"</b> |   |                 |   |
| <b>1437</b> | <b>Tornado 1 Develops</b>           | <b>2 NNW War Acres</b>  | <b>Oklahoma</b> |   |
| <b>1438</b> | <b>Tornado 1 Dissipates</b>         | <b>2 NNW War Acres</b>  | <b>Oklahoma</b> | <b>Sounded OWDs again at 1449 and 1452!</b> |
| 1440        | 2.00" Hail                          | 5 NE Yukon  | Canadian        |   |
| 1442        | 2.75" Hail                          | 4 N Bethany   | Oklahoma        |   |
| <b>1443</b> | <b>Sounded OWDs</b>                 |   |                 |   |
| 1443        | 0.88" Hail                          | Yukon   | Canadian        | I-40 and Mustang Rd.                        |
| 1444-1515   | Tornado Warning                     | Northwest Oklahoma, Southern Logan                            |                 |   |
| 1448        | 1st Reports of Damage               | 3 WSW Edmond  | Oklahoma        | 149 - 16th/Penn                             |
| 1450        | 1.00" Hail                          | 4 NW Edmond   | Oklahoma        |   |
| 1451        | SVS - Tornado                       | Northwest Oklahoma, Southern Logan                            |                 |   |
| 1453        | Area Weather Update                 | Northern, Central, and Southern Oklahoma, Western North Texas |                 |   |
| <b>1453</b> | <b>Tornado 2 Develops</b>           | <b>3 WNW Edmond</b>   | <b>Oklahoma</b> | <b>192nd/Western Avenue</b>                 |
| 1455        | 1.25" Hail                          | 3 WNW Apache  | Caddo           |   |
| 1456-1545   | Severe Thunderstorm                 | Canadian, Western Oklahoma, Kingfisher, Western Logan         |                 |   |
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| 1459        | SVS - Tornado                       | Northern Oklahoma, Southern Logan                             |                 |   |

# Central Oklahoma Tornadoes

February 10th

Preliminary  
Damage Paths

#4

5mi E OF LANGSTON  
TO 3mi SW OF STILLWATER

LENGTH: 11mi  
WIDTH: 30yd  
RATING: EF0

#3

NEAR HWY 105  
& HENNEY

LENGTH: 0.75mi  
WIDTH: 20yd  
RATING: EF0

#2

NW 178TH & WESTERN  
TO 1/2mi NE OF  
WATERLOO AND BROADWAY

LENGTH: 6.5mi  
WIDTH: 75yd  
RATING: EF2

#1

NEAR ROCKWELL  
& NW EXPRESSWAY

LENGTH: 0.75mi  
WIDTH: 30yd  
RATING: EF1



The Village

Edmond

Jones

Meridian

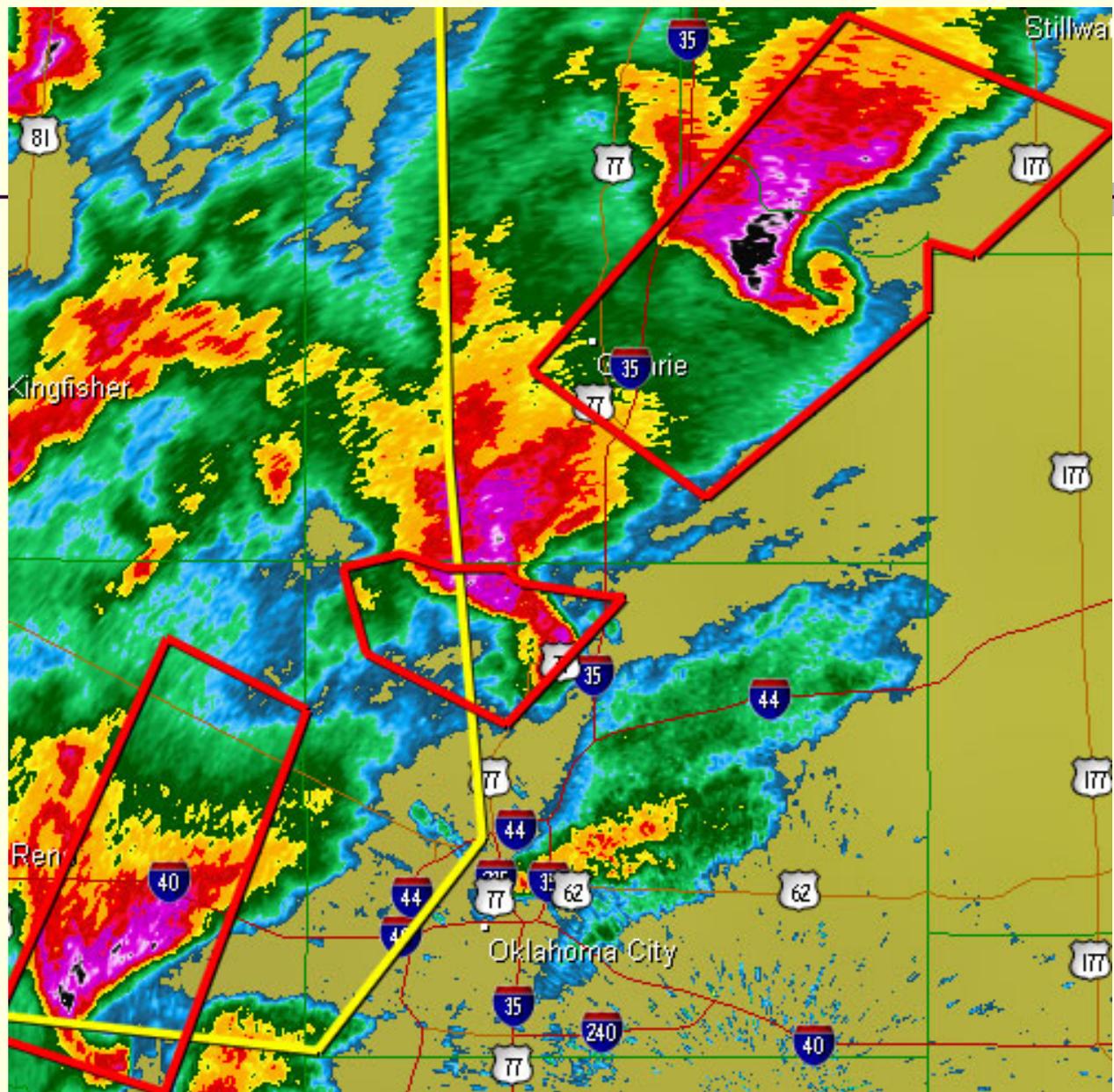
Langston

Perkins

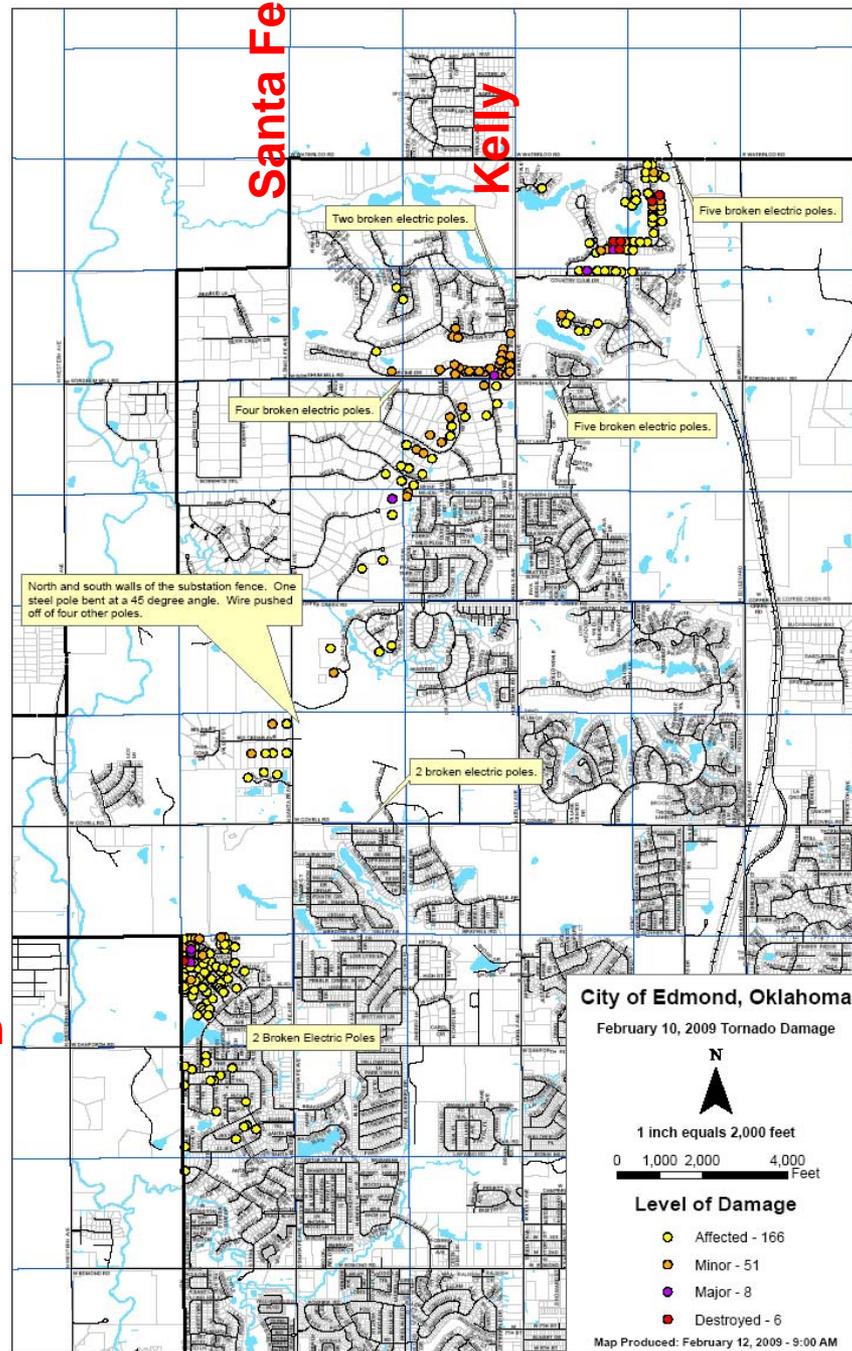
Stillwater

Graphicast Fri Feb 13 1:58PM CST  
Norman Forecast Office





Danforth



Santa Fe

Kelly

Waterloo

Sorghum Mill

Coffee Creek

Covell

# What we do!

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- **Prepare**
- **Respond**
- **Recover**
- **Mitigate**

# Prepare

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- **Plan (EOP and Department Plans)**
- **Train**
  - **Tactical**
  - **Operational**
  - **Strategic**
- **Equip**
- **Organize**
- **Drill and Exercise**

# Respond

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- **Warnings, pass them on**
- **Open EOC, in accordance with EOP**
- **All Departments take “Lean Forward” Actions (Pre-position, pre-designate, run pre-event checklists)**
- **Respond to scene and set up ICP (names, positions and phone numbers/channels)**
- **Size up**
- **Incident Priorities**
- **Search and Rescue**

# Respond, page two

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- **Access Control**
- **Mutual Aid**
- **ICS (CCCC)**
- **Incident Action Plans**
- **Operational Periods**
- **Information to the Public (evacuation, shelters, hazards...)**
- **Initial Damage Assessment**
- **Situation Reporting**
- **City's Emergency Declaration to OEM**
- **Command Transfer**

# Recover

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- **Establish the Recovery Task Force (ICS)**
- **Access control**
- **Official Preliminary Damage Assessment**
- **Debris sorting, removal and clean up**
- **Coordinate with Outsiders: FEMA, media, insurance companies, volunteers, contractors**
- **Public Information/Assistance**
- **Disaster Recovery Center**

# Strengths

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- **What went right?**
  - **Pre-identified:**
    - **Adequate warnings**
    - **Quick responses**
    - **Protection of people and property**
    - **Good communication**

# Challenges

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- **What needs to be improved?**
  - **Lack of representatives/liaisons in ICP and EOC; need all disciplines**
  - **Blow down of barricades and stop signs**
  - **Lack of information/SITREP**
  - **Call-Out lists: who to call and for what**
  - **No single coordinated ICP initially**
  - **PIO connectivity**



**THANK YOU  
FOR HAVING  
US HERE!**

