May 31, 2013
Flood Response Overview
Suppression

867 Personnel on three (3) shifts

289 Red Shift  (A)
289 Blue Shift  (B)
289 Green Shift  (C)

Department Overview
Department Overview
Dispatched Over 68,994 Incidents in 2014

EMS: 40,934
False Alarm: 4,129
Fire: 2,879
Hazmat: 1,362
Other: 19,381
(Smoke Scares, Lock Outs, Trouble Unknown, etc.)
Much like May 19th and May 20th, a potent set of ingredients came together during the afternoon hours of the May 31st for a major severe weather episode over central Oklahoma.

These storms quickly became severe with strong mid level rotation.

The first tornado touched down in Kingfisher County and produced little to no damage.

Kingfisher County is WNW of the OKC metro.
• The second tornado to form, near El Reno, would go on to be one of the most powerful tornadoes sampled by mobile radar and also the widest known tornado on record
  • This is also West of the OKC metro

• This storm would go on to produce several other tornadoes in the Oklahoma City metro and a line of training supercells would cause historic flash flooding in the metro area

Weather Event Overview
Weather Event Overview

National Weather Service identified Tornado Tracks in Oklahoma City of Oklahoma City

<table>
<thead>
<tr>
<th>Location</th>
<th>Preliminary rating</th>
<th>Begin time</th>
<th>End Time</th>
<th>Path Length</th>
<th>Maximum Width</th>
</tr>
</thead>
<tbody>
<tr>
<td>Lightening Creek Park</td>
<td>EF-1</td>
<td>6:25pm CDT</td>
<td>6:28pm CDT</td>
<td>.4 miles</td>
<td>250 yards</td>
</tr>
<tr>
<td>(Lightening Creek Park to Straka Terrace and Western Ave)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SW Oklahoma City/Will Rogers World Airport</td>
<td>EF-1</td>
<td>6:51pm CDT</td>
<td>7:23pm CDT</td>
<td>10.4 Miles</td>
<td>1.4 Miles</td>
</tr>
<tr>
<td>(Fairfax Lane, NW of SW 15th &amp; Morgan Rd. intersection to SW. 556th and Blackwelder Ave.)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SE. Oklahoma City of Oklahoma City</td>
<td>EF-0</td>
<td>7:33pm CDT</td>
<td>7:40pm CDT</td>
<td>.4 Miles</td>
<td>200 Yards</td>
</tr>
<tr>
<td>(Creekwood Terrace to Keith Dr. Near SE 54th St., east of Valley Brook)</td>
<td></td>
<td></td>
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</tr>
</tbody>
</table>
Weather Event Overview

- At least 100,000 homes and businesses lost power after the storms had passed.
- Ten tornado warnings were issued over the next 3.5 hours in the Oklahoma City area.
- The series of storms produces multiple EF-0 and EF-1 tornados which tracked across the southern portions of the City of Oklahoma City.
Record for May 31st Data

- Oklahoma City 1.7 NNW
  - Record highest precipitation: 1.61” in 2010
- Oklahoma City, Ok
  - Record highest precipitation: 1.82 in 2006
- Oklahoma City Will Rogers World Airport
  - Record highest precipitation: 5.63 in 2013
  - Makes that rain event the highest daily precipitation ever recorded
Record for June 1st Daily Data

- Oklahoma City 1.7 NNW
  - Record highest precipitation: 6.77 in 2013
  - This is the highest rain event daily precipitation ever recorded in that area

- Oklahoma City, Ok
  - Record highest precipitation: 6.76 in 2013
  - This is the highest rain event daily precipitation ever recorded

- Oklahoma City Will Rogers World Airport
  - Record highest precipitation: 3.37 in 1962
Outdoor Warning System Activated due to tornado warnings issued by the National Weather Service:

- Friday May 31, 2013

Emergency Calls Received:

- Sunday May 19, 2013 - 3231
- Monday May 20, 2013 - 5075
- Friday May 31, 2013 - 8236
Water Related Incidents for May 31\textsuperscript{st} moving into June 1\textsuperscript{st}

- 114 Incidents
  - This was in a span of about 4 hours

- Average Daily Call Volume is about 225 Incidents
Impact on the Community

• The area of the City impacted was isolated and spread out over a wide area of about 120 square miles of the city
• Eleven (11) fatalities occurred when families chose to seek shelter from the potential tornados in water control structures which then filled with rushing water
• The Oklahoma State Department of Health reported 121 people were treated at area hospitals with injuries resulting from this storm.
• Incident Management Options
• Complex Management Systems
  • Area Command
  • Unified Command
  • Branch Based Management

Incident Management
Command Structure
Area Command
Branch Concept
Management Focus

- Span of Control
- Staging
- Resources
  - City/County/State
- Strike Teams
- Task Forces
- Incident Management Teams
- Command Post/Command Center
- Command Structure
- Communications
- Operational Periods
Suppression

36 Fire Stations

District Map Utilized for Area Command
• Dispatch will notify all stations that Area Command is in effect for all responses
• The Operations Deputy Chief, Support Services Deputy Chief, Battalion Chief of Operations and the EMS Battalion Chief will respond to our 911 Center and formalize Area Command
• Each District Officer will assume command of their district response
  • District 1-6 Command
• Each Company Officer will carry a hand held radio assigned to the Tactical Channel Based on their district
  • District 1 will be Tac-1, District 2 will be Tac-2, etc.
• Dispatch will initially take the call and assign the incident to a District Officer based on the recommendation of the first due district officer
• The District Officer will prioritize the response based on the location, available resources and calling party information on the MDC

Area Command
Management Concept
The District Administrative Assistant will contact the appropriate apparatus via radio for response.

- The apparatus will use the Self Assign Button on the MDC to be added to the call.
- All apparatus have Automatic Vehicle Locator (AVL’s).
  - Utilizing normal dispatch concepts will not be the best use of resources.
- Mobile Data Computers (MDC’s) can be used to identify the best use of resources in the District Chief’s Management area.
- If one district is overwhelmed compared to another district the Incident Commander will contact another district and request a response to cover their needs.

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**Area Command Management Concept**
• Area Command provides the best use of resources when a jurisdiction is overwhelmed
• Area Command is an option but in smaller jurisdictions unified command or single command may be a better fit

• Questions

Group Discussion