

Ice, Snow, Wind, Tornadoes, Tropical Storms & Floods:



Keeping the Power Flowing Through All Extremes!



*A presentation for the U.S. Geological Survey by
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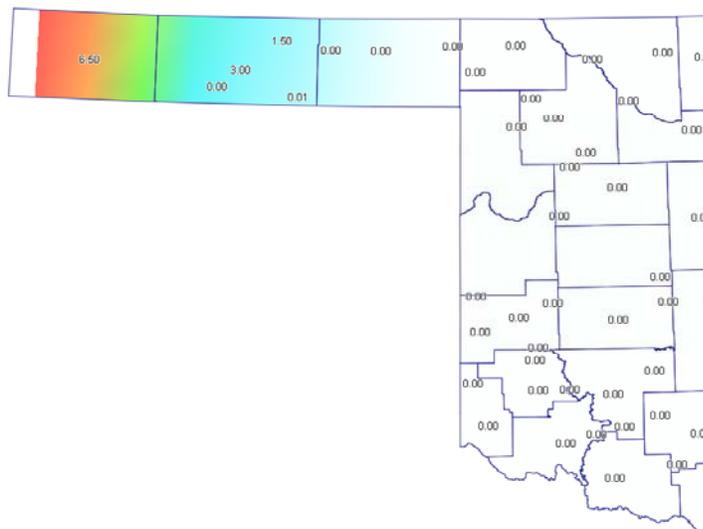
Electric Cooperatives of Oklahoma:



- ◆ *30 electric cooperatives serve nearly 475,000 customer/owners via 106,000 miles of powerline located in all 77 counties.*
- ◆ *Provide electricity to 24% of Oklahoma's residential market.*
- ◆ *2005 Sales: 11.25 billion kWhs*
- ◆ *2005 Revenues: \$700 million*
- ◆ *Employ more than 2,270 local people in communities all across Oklahoma.*
- ◆ *Paid \$18.9 million in Gross Receipts tax in 2005; 95% goes back to local school districts.*

An ominous prelude to 2007:

- Though FEMA disaster declaration #1677-DR was for the period December 29 – 31, 2006, the initial ice storm hit the Oklahoma panhandle on Friday, December 19, 2006, and continued thru Sunday, December 21, 2006.
- Two counties (Cimarron and Texas) sustained ice and snow storm damage, with collateral damage also reported in Beaver county.
- “Preliminary Damage Assessment” (PDA) from Tri-County Electric Cooperative: \$5.5 million.

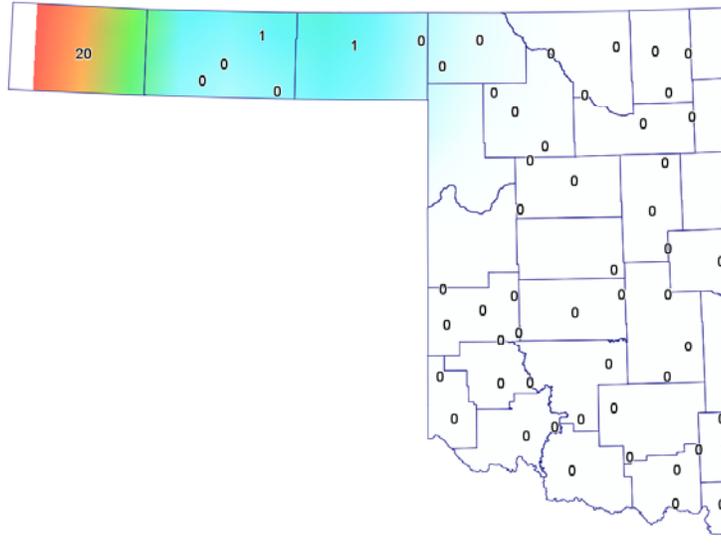


12/31/2006
5:00 PM CST

Snow depth
5:00 PM CST 12/31/2006

○ Oklahoma
□ County Borders

■ Snowfall
5:00 PM CST 12/31/2006

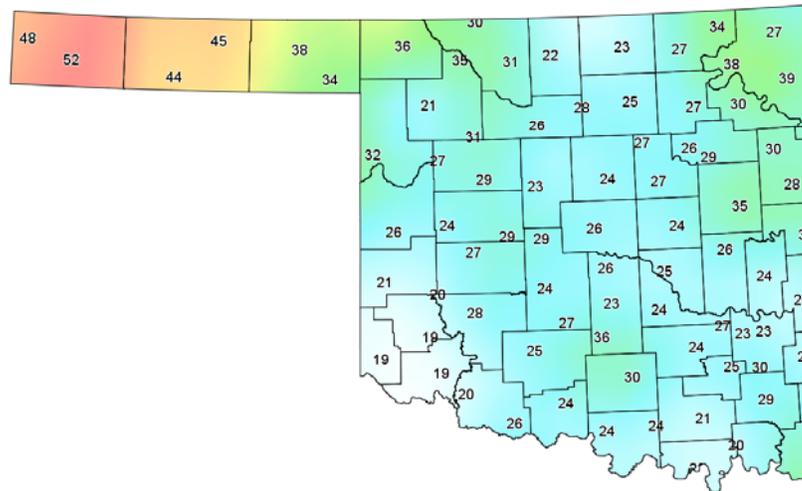


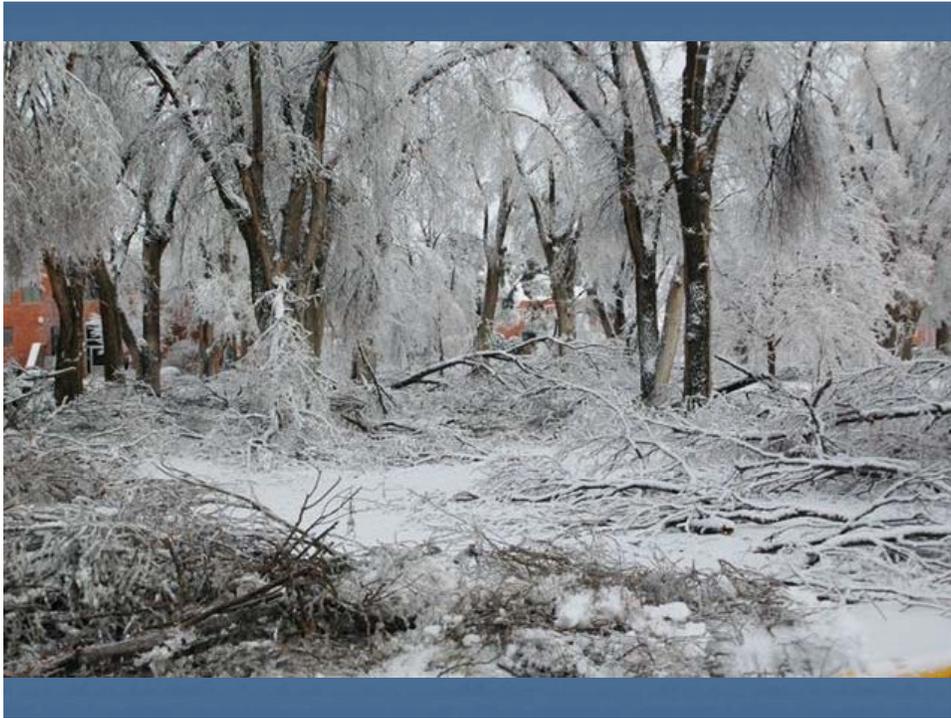
12/30/2006
5:00 PM CST

Maximum Wind Gust
5:00 PM CST 12/30/2006

○ Oklahoma
□ County Borders

■ Maximum Wind Gust
5:00 PM CST 12/30/2006

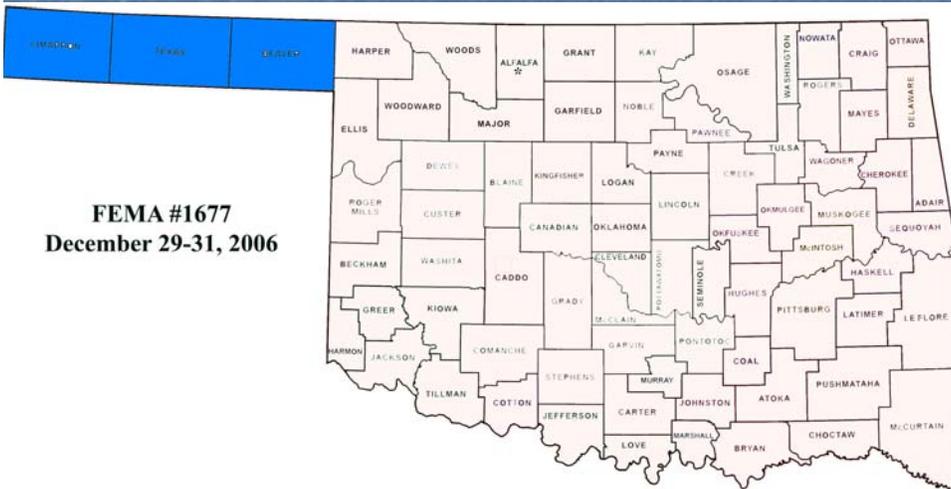






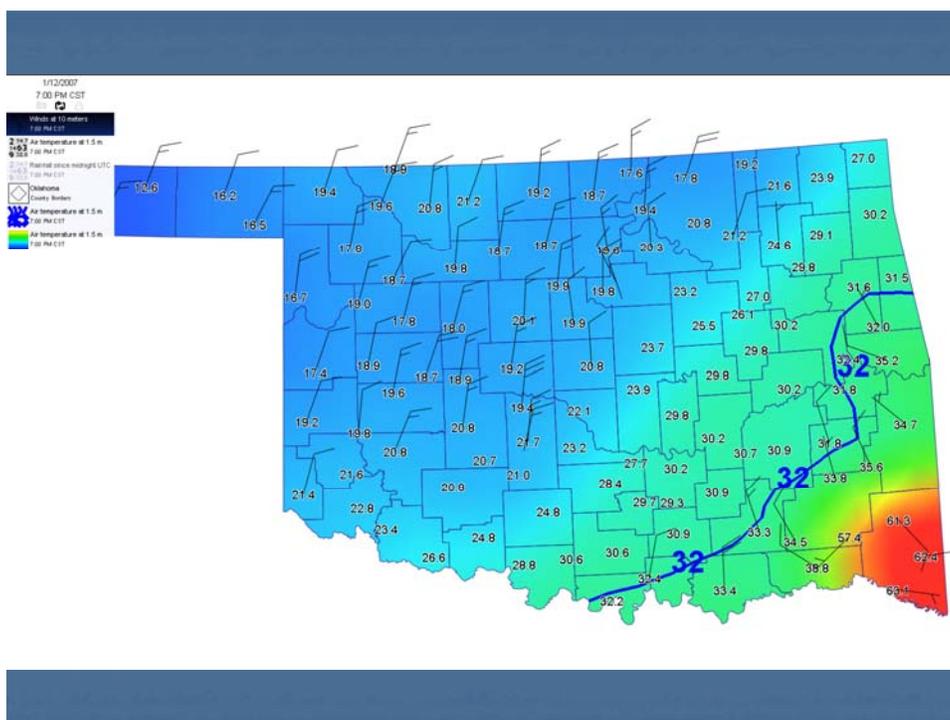


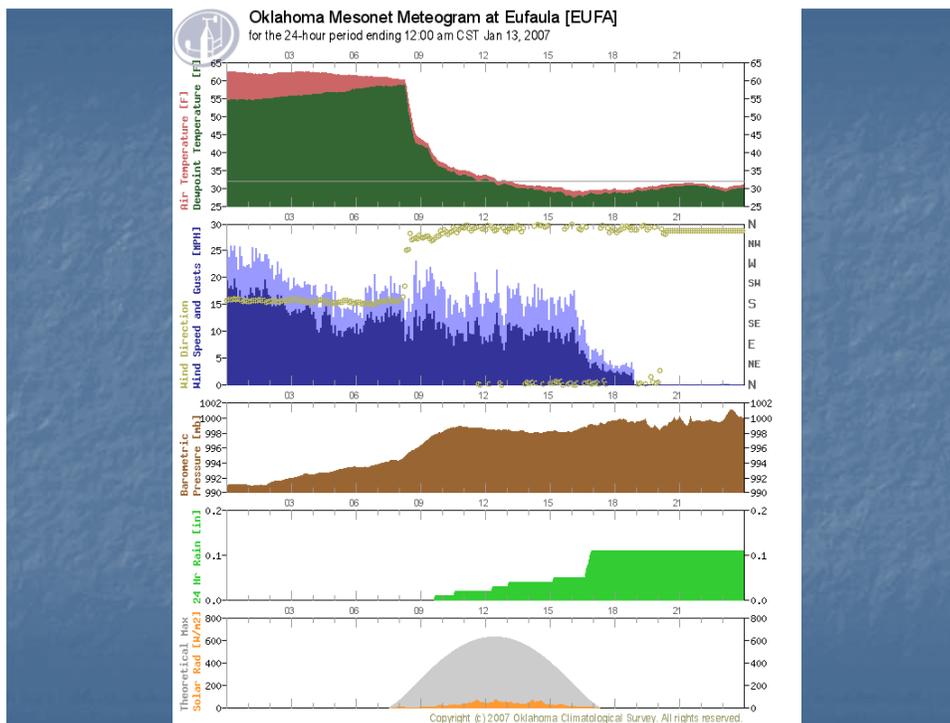
FEMA DR-#1677 – Incident Period 12/29-31/06
Counties Declared: Beaver, Cimarron, Texas
Cooperatives Affected: (1) Tri-County Electric



The Centennial Year Begins...

- FEMA #1678-DR declaration was the result of an ice storm event that began on Friday, January 12, and continued thru Monday, January 15, 2007.
- It was the third major ice/snow event to hit parts of Oklahoma within a 24-day time period.
- Ice storm advisories and alerts were coordinated with the National Weather Service (NWS) and the Oklahoma Climatological Survey (OCS) then sent via e-mail from OAEC to all Cooperatives as early as Sunday, January 7th.
- Special assistance from Tulsa NWS w/graphics.

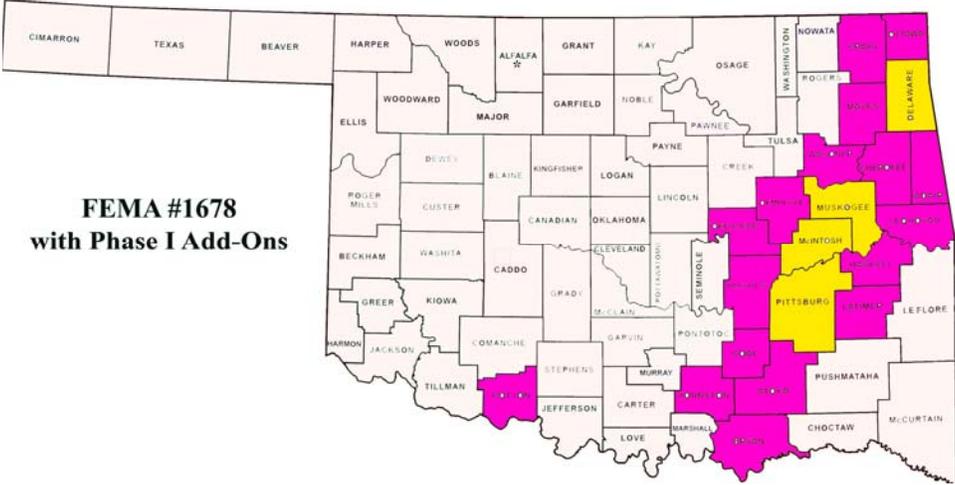




FEMA DR-#1678 – Incident Period 1/12-15/07
Counties Declared Initially: (4) Delaware, McIntosh, Muskogee, and Pittsburg
Cooperatives Affected: 13 Distribution; 2 G&Ts

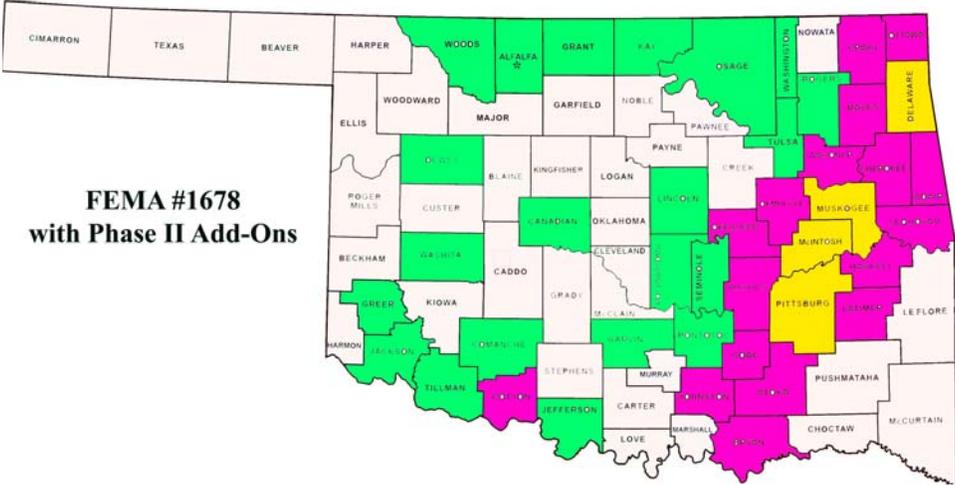


FEMA DR-#1678 – Incident Period 1/12-15/07
Additional Counties Declared, Phase I: 17
Cooperatives Affected: 13 Distribution; 2 G&Ts



**FEMA #1678
with Phase I Add-Ons**

FEMA DR-#1678 – Incident Period 1/12-15/07
Additional Counties Declared, Phase II: 21
Cooperatives Affected: 13 Distribution; 2 G&Ts



**FEMA #1678
with Phase II Add-Ons**



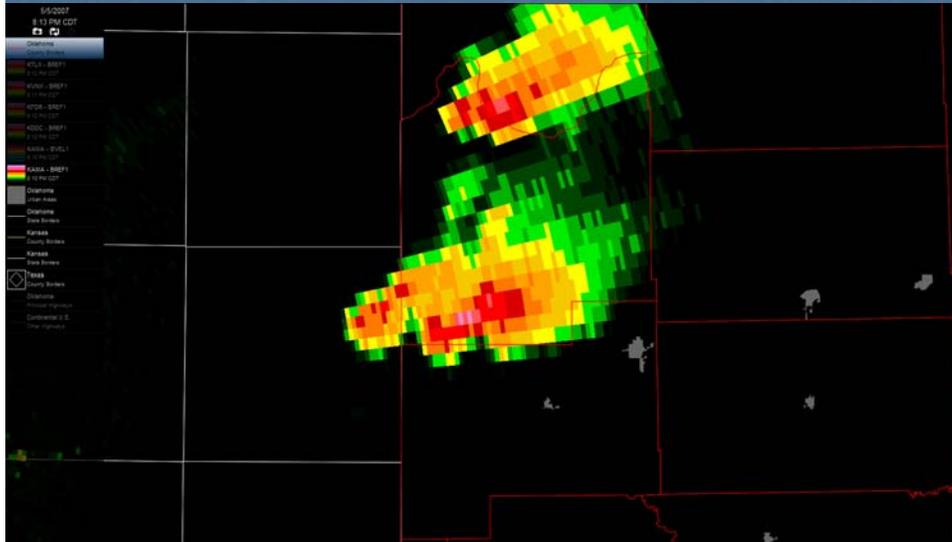




FEMA DR-#1678 – January 12-15, 2007

- Thirteen distribution and two G&T cooperatives were affected by this ice storm event, beginning with SW Rural Electric and Cotton Electric co-ops in far southwest Oklahoma, with the footprint extending to the east-northeast over the weekend.
- Four counties initially declared, with three additional “add-ons” for a total of 46 counties.
- “Preliminary Damage Assessments” from 15 affected electric cooperatives (13 distribution and 2 G&Ts): \$36.6 million
- Total Estimated Repair/Reconstruction: \$30 million

A tornado hit Sweetwater, Roger Mills county, on Saturday,



May 5th, causing extensive damage to public school facilities.



...to severe storms/floods during June and July in the Northeast & Southeast...

It has indeed been... a *very wet* year!

- Six (6) FEMA declared disasters since Dec. 2006
 - FEMA 1677-DR, 3 counties, OK panhandle
 - FEMA 1678-DR, 46 counties, central & eastern OK
 - FEMA 1707-DR, 17 counties, central & western OK
 - FEMA 1712-DR, 60 counties, central, NE & SE OK
 - FEMA 1718-DR, 23 counties, central & western OK
 - FEMA 1723-DR, 9 counties, southern OK
- Total damage incurred to Cooperative infrastructure:
 - Preliminary damage estimates for six declared disaster events above: \$45.6 million
 - Estimated additional permanent repairs: \$30 million
 - Total number of consumers affected: 225,000
 - Year 2000 & 2002 ice storms collectively: \$250 million

