



# Emergency Management and Communication

**Presented by:** 

Steve Drillette, Meteorologist-in-Charge National Weather Service, Little Rock, AR



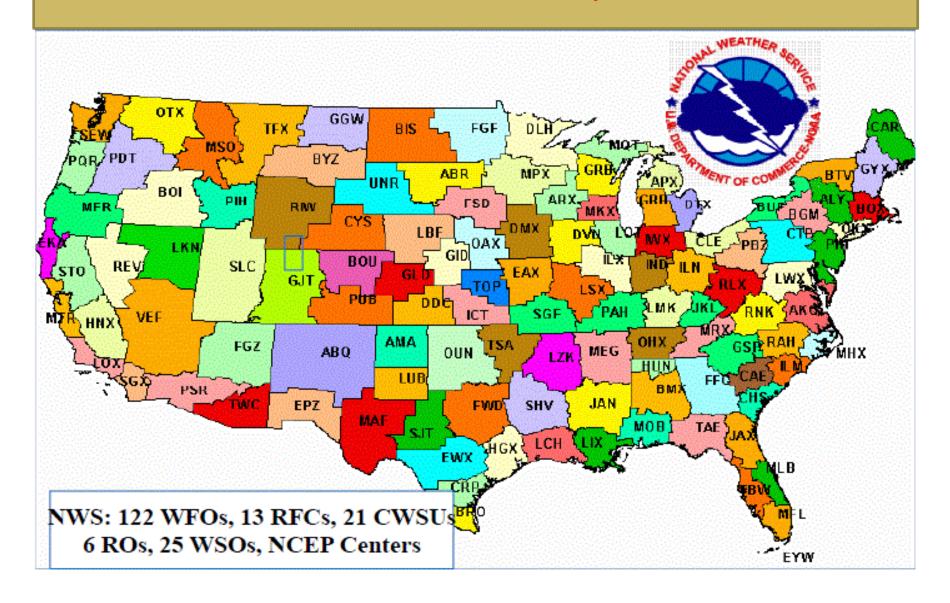
# National Weather Service Who are we??



**Since 1870** 



#### Government Closest to the People, Serves Best!

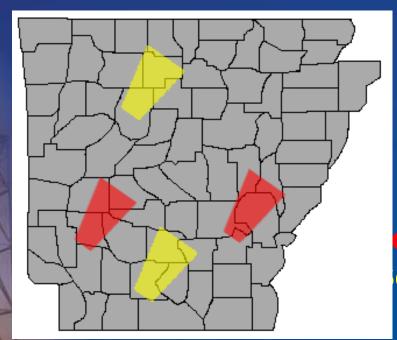




#### **Our Mission**



To protect life and property by issuing timely warnings (i.e. for tornadoes, severe thunderstorms, flash flooding, etc).



ornado Warning evere Thunderstorm Warning



### When We Are Open

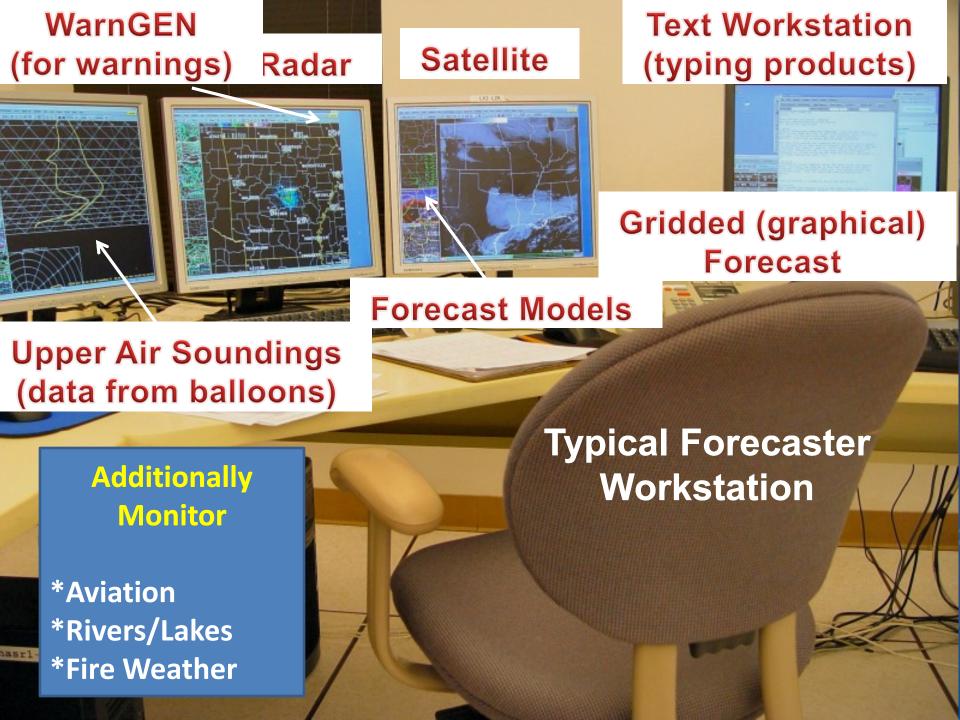


Weather never stops, so we are open 24 hours a day/7 days a week (even on Christmas, Thanksgiving, etc).

#### **Our Team**



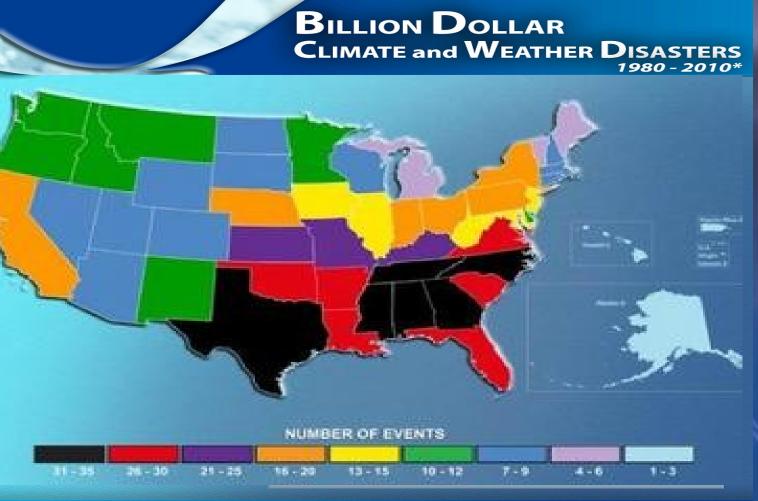
- 10 Forecasters (2 per shift)
  - 2 Meteorologist Interns
  - 1 Hydrologist
  - **3 Electronic Technicians**
  - 1 Electronic Systems Administrator
  - 1 Information Technology Officer
  - 1 Observation Program Leader
  - **1 Warning Coordination Meteorologist**
  - 1 Science and Operations Officer
  - 1 Meteorologist-in-Charge
  - **1 Administrative Assistant**





# Weather Impacts on Society









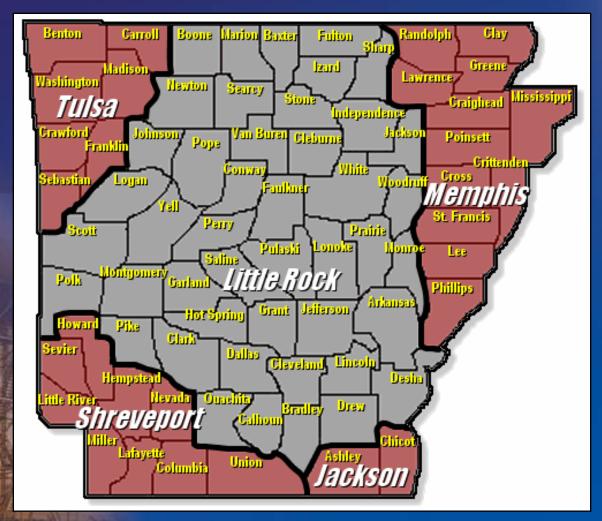
NOAA'S NATIONAL CLIMATIC DATA CENTER ■ ASHEVILLE, N.C.

Protecting the past... Revealing the future



# Offices Serving Arkansas





Five National
Weather Service
Forecast Offices
serve the state of
Arkansas.



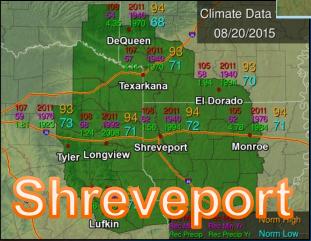
# 5 Offices -> 5 Briefings





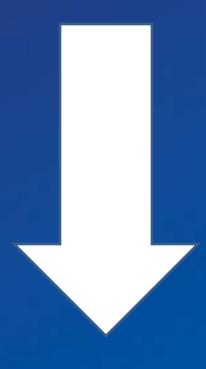








# One Briefing for the State of Arkansas





## **Severe Briefing Example**

Risknofe@code@tis@tosms







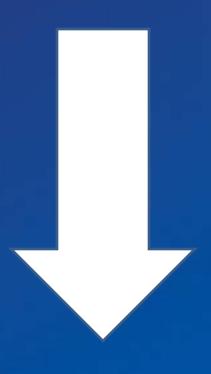
# **DSS Webpage**



#### http://www.srh.noaa.gov/lzk/?n=dssarkansas.htm



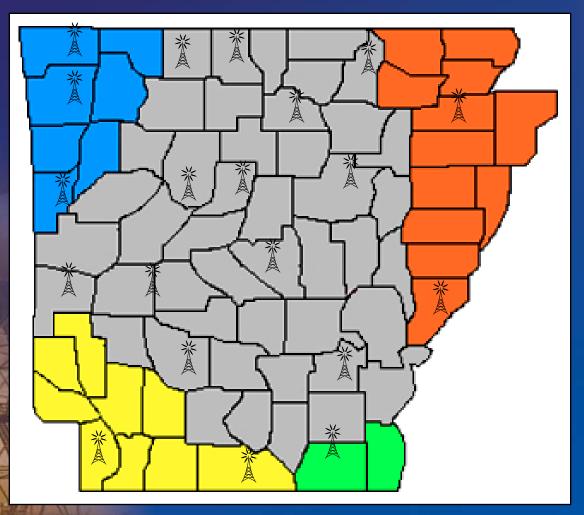
# When Watches/Warnings are Issued





#### **NOAA Weather Radio**





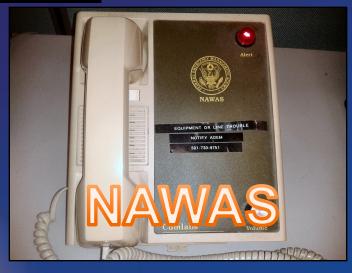
#### **Transmitter**

**Cherokee Village** 162.475 El Dorado 162.525 **Fayetteville** 162.475 **Fort Smith** 162.550 **Fountain Hill** 162.475 Gurdon 162.475 Harrison 162.525 **High Peak** 162.425 **Jonesboro** 162.550 Little Rock 162.550 Marvell 162.525 Mena 162.400 **Morrilton** 162.475 **Mountain View** 162.450 Russell 162,400 Russellville 162.525 **Springdale** 162,400 **Star City** 162.400 **Texarkana** 162.550 Yellville 162.500



### **Relay Watch/Warning**





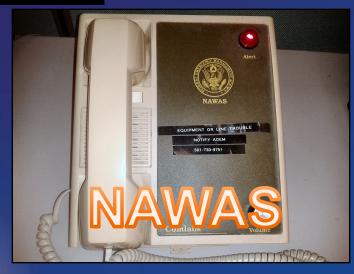


The National Warning System (NAWAS) and AWIN (Arkansas Wireless Information Network) Mutual Aid Channel Pool (MAC) phones are used to convey watches/warnings to Federal, State and local governments, as well as law enforcement.



# Relay Watch/Warning





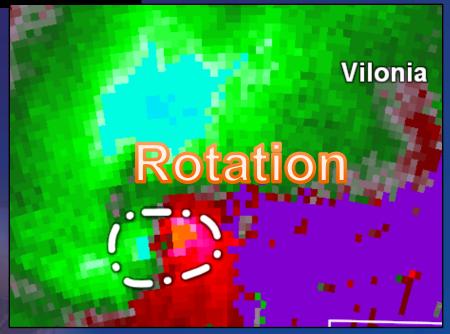


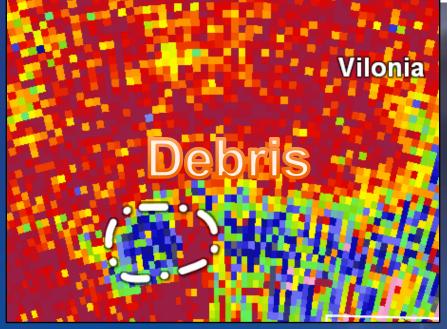
During significant events (such as when Tornado Warnings are issued), phone calls are often made to affected counties. That was the case on April 27, 2014 (the Mayflower/Vilonia Tornado), when the Faulkner County Sheriff was contacted.



# On April 27, 2014







At 743 pm CDT, the WSR-88D (Doppler Weather Radar) showed strong rotation to the southwest Of Vilonia (Faulkner County). A Dual-Pol Correlation Coefficient (CC) image indicated a Tornado Debris Signature (TDS).



# **Tornado Emergency**



... TORNADO EMERGENCY FOR MAYFLOWER AND VILONIA...

THE NATIONAL WEATHER SERVICE IN LITTLE ROCK HAS ISSUED A

- \* TORNADO WARNING FOR...

  SOUTHWESTERN WHITE COUNTY IN CENTRAL ARKANSAS...

  NORTH CENTRAL PULASKI COUNTY IN CENTRAL ARKANSAS...

  EXTREME NORTHWESTERN LONOKE COUNTY IN CENTRAL ARKANSAS...

  SOUTHERN FAULKNER COUNTY IN CENTRAL ARKANSAS...
- \* UNTIL 800 PM CDT
- \* AT 724 PM CDT...STORM SPOTTERS AND NATIONAL WEATHER SERVICE DOPPLER RADAR WERE TRACKING A LARGE AND EXTREMELY DANGEROUS TORNADO. THIS TORNADO WAS LOCATED 2 MILES EAST OF ROLAND...OR 5 MILES NORTHWEST OF MAUMELLE. DOPPLER RADAR SHOWED THIS SEVERE STORM MOVING NORTHEAST AT 50 MPH.

Given information from the radar, and also from trained storm spotters, a rare "Tornado Emergency" was declared.



#### **Social Media**

AL WEATHER



Storm reports rolled in from social media outlets such as Twitter and Facebook.



#### **HAM Radio**





Amateur radio operators were asked to come to the office during this event to collect valuable information from the public.



### **Preliminary Track**





To help in the search and recovery process, preliminary tornado track information was made available.



# Flying the Track





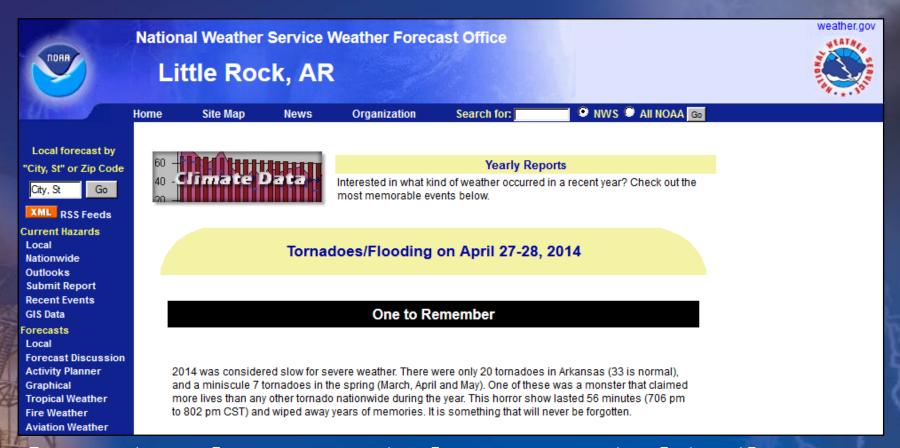
To get a better (more clear) understanding of what happened, forecasters flew over the damage with the Civil Air Patrol.



#### On the Web



http://www.srh.noaa.gov/lzk/?n=svr0414cyr.htm



An extensive reported was posted to the office website.



#### The End



# Thanks for coming!

**Any questions?**