# agweather connection 

## Relative humidity

- Start at hitp://agweather.mesonet.org
- Select "Weather" from the horizontal menu
- Choose "HUMIDITY"
- Then pick "Current Humidity"
- Humidity is displayed in percentages. As the humidity increases, the air outside feels wefter.


## Wind speed and direction

- Start at htrp://agweather.mesonet.org
- Select "Weather" from the horizontal menu
- Choose "WIND"
- Then pick "Current Wind"
- You can also look at the "Maximum Wind Gust Map"
- The numbers illustrate the wind speed and the arrows indicate the direction.


## Radar

- Start at hitp:///agweather.mesonet.org
- Select "Radar/Satellite" from the horizontal menu
- Choose "LOCAL RADAR"
- Then pick your nearest radar location
- Radar data can be shown in two modes. When there are no storm events, the radar will operate in Clear Air mode. In this mode, the legend will range from - 28 to 28 . When there are storms in the area, the radar will operate in Precipitation Mode, which ranges from 0 to 75 .



72-Hour Observed Precipitation - Ending 7/24/2009 1500 UTC


## Satellite

- Start of http://agweather.mesonet.org
- Select "Radar/Satellite" from the horizontal menu
- Choose "SATELLITE"
- Then pick "Regional Infrared"
- On April 9, fires could be seen as hot spots on Infrared Satellite.


## Radar-predicted rainfall

- Start at http://agweather.mesonet.org
- Click "Soil/Water" from the horizontal menu
- Then select "RAINFALL"
- Finally, choose "Radar Precip. Analysis"
- This map helps answer the questions "How much rain fell, and where?" It is especially helpful in areas where there are no rainfall sensors. A national map is shown, but you can dick and zoom in to particular states.


## Back in time

- This map shows relative humidity, wind speed and direction, and severe weather on April 9
- This map was built using WeatherScope, the software that the Agweather Web site uses
- In addition to working with the Web site, WeatherScope can stand alone and build weather maps using past weather data
- To learn more about using WeatherScope independently, click here or contact us


# define DRYLINE 



Dryline - A boundary separating warm, dry air from warm, moist air, typically across parts of New Mexico, Texas, Oklahoma or Kansas. The Central Plains is one of only four places on the planet in which drylines occur.

Dryline is a common term in Oklahoma, prominent in spring and early summer weather forecasts. By definition, a dryline is a type of boundary between hot, dry air coming off the Mexican plateau and warm, moist air coming off the Gulf of Mexico. A dryline is often associated with severe weather because it can cause moist air to be lifted in the atmosphere as it moves eastward. The more moist air that is lifted into the upper atmosphere, the stronger the storms.
"One of the most important things to note about drylines is that they act as a focal point for storm development," said Andrew Reader, program manager for Mesonet Public Safety Outreach. "Drylines are one of the contributing factors in making this area 'tornado alley."'

In addition to helping form thunderstorms, drylines also can have a significant impact on wildfires. "If a fire is already in progress and a dryline moves into the area, the change in wind direction will change the movement of the fire," said Andrea Melvin, Program Manager for EarthStorm. "If firefighters are unaware of a dryline nearby, crews and equipment can be endangered when the fire suddenly begins moving toward them."

