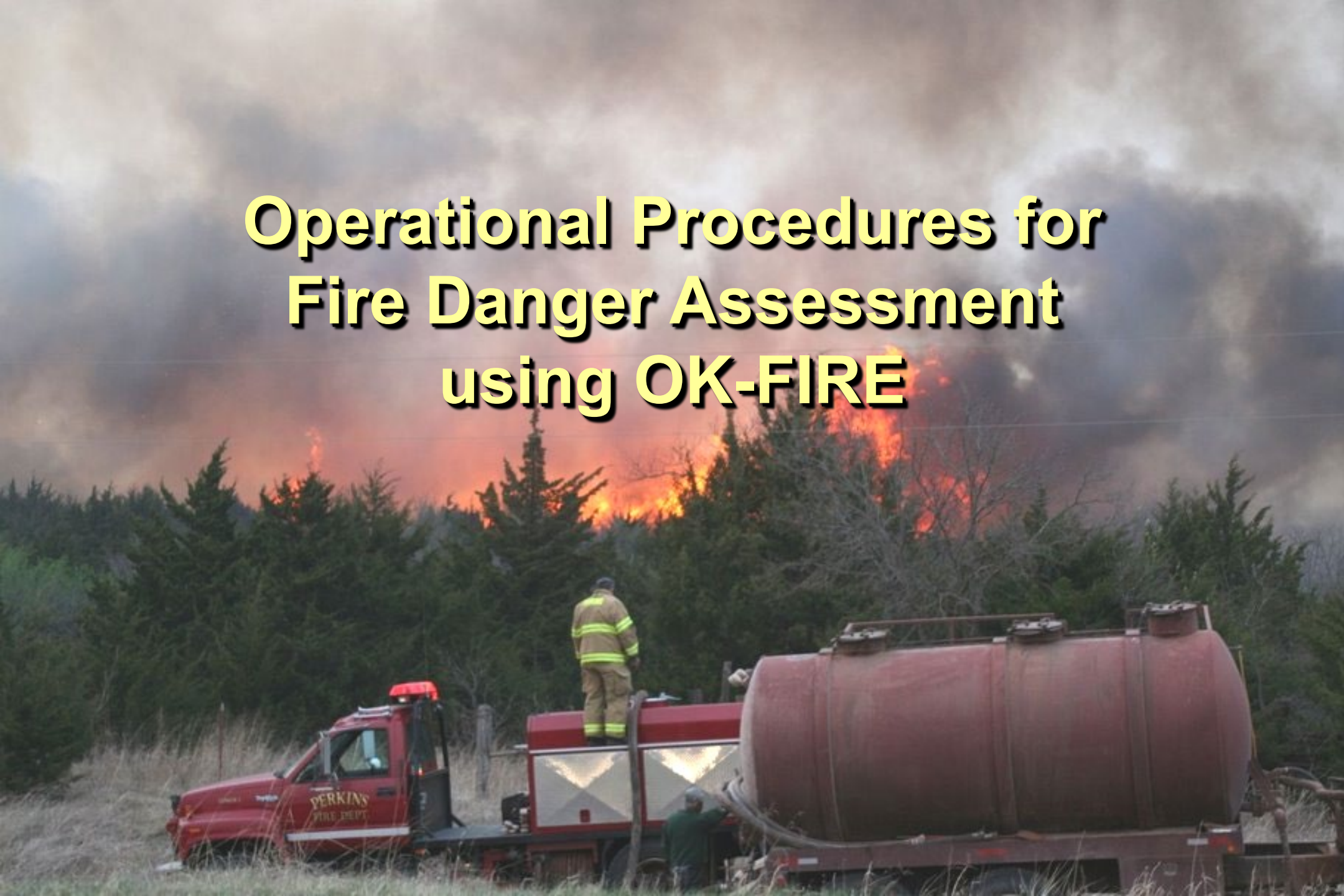


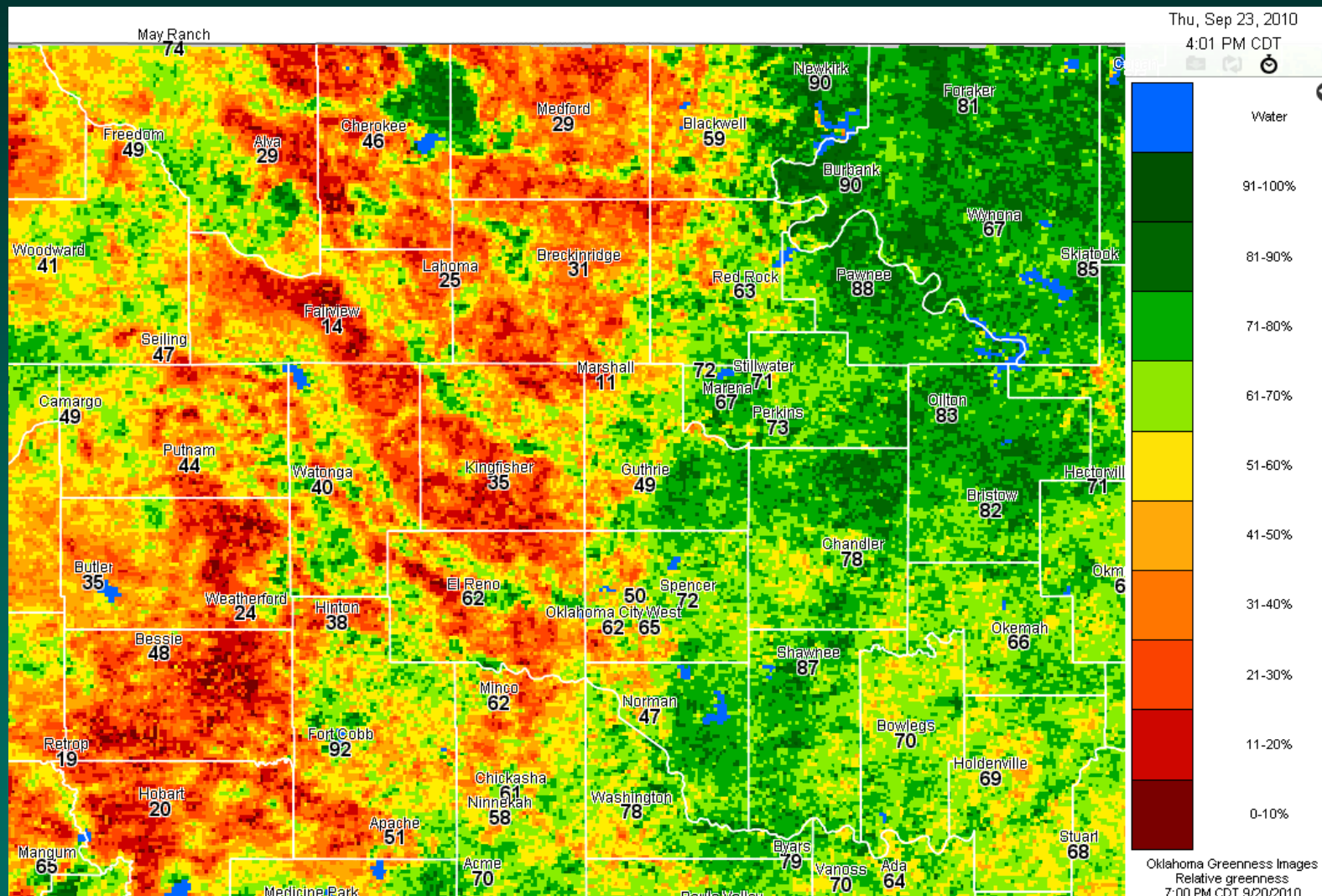
Operational Procedures for Fire Danger Assessment using OK-FIRE



Site-Specific Assessment of Fire Danger: CHARTS and TABLES



Choose the closest Mesonet station whose Relative Greenness best approximates the current greenness levels of your wildland fuels



For that selected station, choose the fuel model which best fits the fuel complex you wish to model
(normally use one of the 5 fuel models below)

- **Model A – Western annual grasses**
- **Model L – Western perennial grasses**
- **Model T – Tallgrass with open evergreen brush**
- **Model R – Hardwood forest**
- **Model P – Southern pine forest**

Four Other Fuel Models Available

- **Model B – Tall dense evergreen brush / eastern redcedar**
- **Model F – Intermediate evergreen brush**
- **Model G – Forest with heavy downed fuels**
- **Model K – Light slash**


Current Conditions (Home Page)

- Current Station Conditions >
- Current Maps >
- Past & Forecast Animated Maps >
- Past & Forecast Charts/Tables >
- Fire Prescription Planner >
- NWS Forecast Chart (Stillwater) >
- NWS Forecast Table (Stillwater) >
- Relative Greenness Zoom Map >
- Default Fuel Model Zoom Map >
- Fire Advisories and Outlooks >
- 3.9 μ Infrared Satellite Map >
- Recent Lightning Activity >
- Oklahoma Burn Bans >
- Additional Resources >
- Contact and Product Information >
- News >

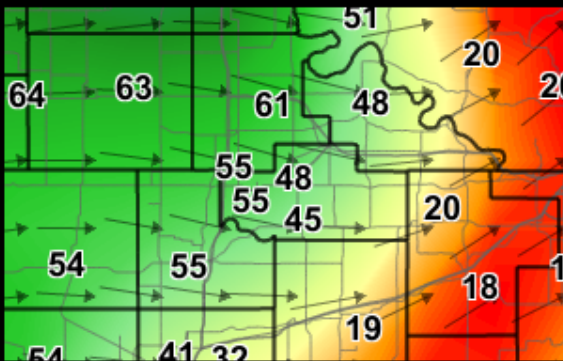
Current Fuel Model for Stillwater

T-Tallgrass with brush
Default is T

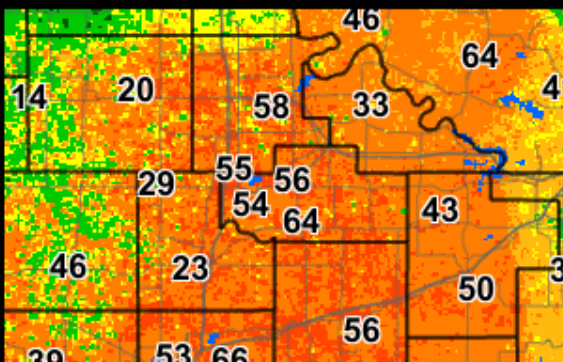
Station Fuel Model Options



Current Relative Humidity and Wind Direction



Current Burning Index

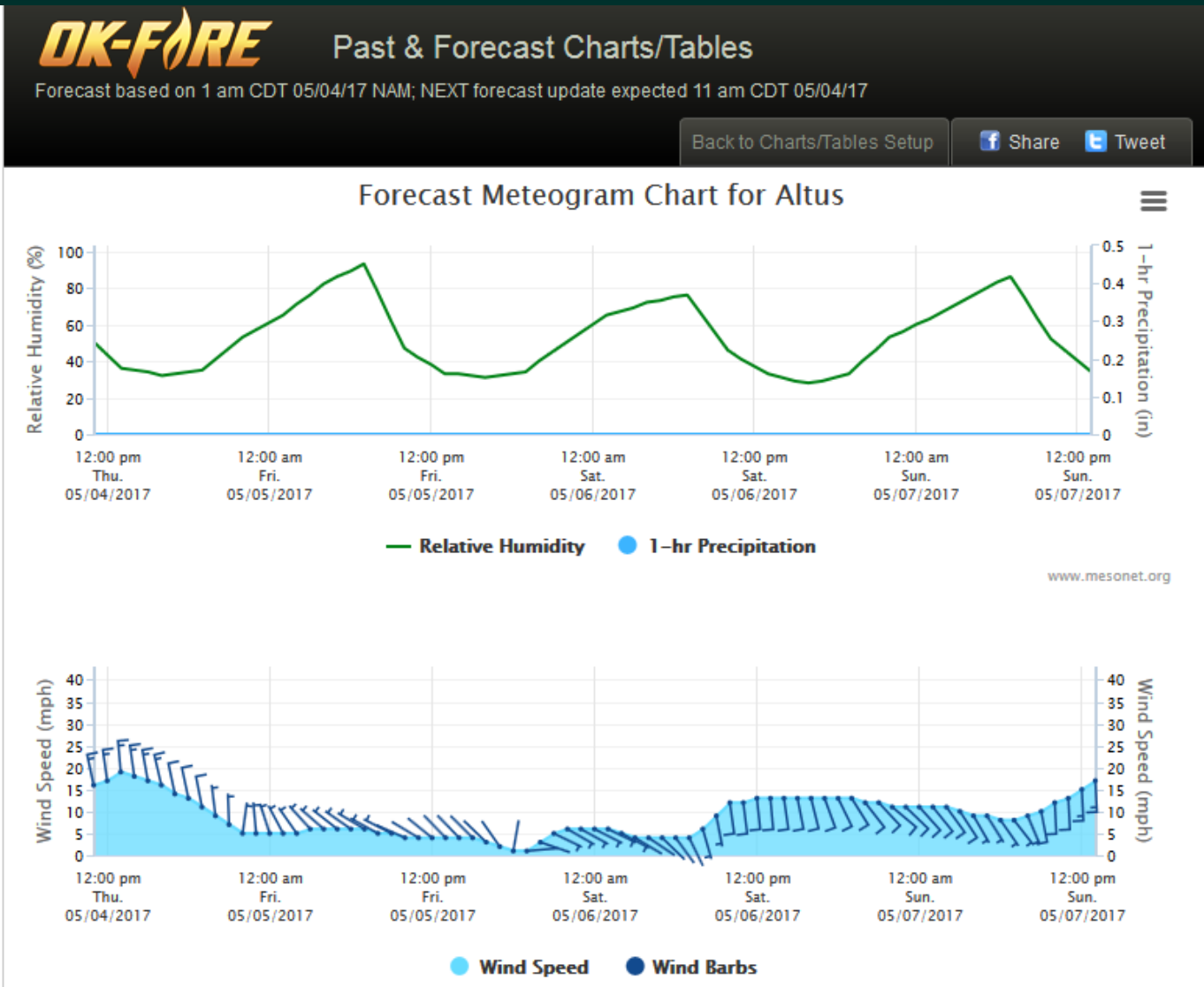


[Share](#) [Tweet](#)

	Stillwater	Bristow ✕
Station:	Stillwater	Bristow
Weather	Sun 1/21/18 11:00 pm CST	Sun 1/21/18 11:00 pm CST
Relative Humidity:	48%	18%
Past 1-hr RH Change:	+29%	+3%
10-m Wind:	W 14 mph	WSW 13 mph
Max Wind Gust:	24 mph	18 mph
Temperature:	49°F Wind Chill: 44°F	59°F
24-hr Rainfall:	0.00 in	0.00 in
Dispersion:	Moderately Good	Moderately Good
Sunrise / Sunset:	7:36 am / 5:44 pm	7:33 am / 5:41 pm
Fire Danger	Sun 1/21/18 10:00 pm CST	Sun 1/21/18 10:00 pm CST
Current Fire Danger:	HIGH	HIGH
Burning Index:	56	43
Spread Component:	44	12
Ignition Component:	31%	45%
NFDRS Fuel Model:	T	R
1-hr Fuel Moisture:	5%	6%
10-hr Fuel Moisture:	11%	12%
Soil Moisture:	–%	93%
KBDI:	114	194
Relative Greenness:	25%	21%

Forecast Conditions (Charts, Tables)

- Current Station Conditions >
 - Current Maps >
 - Past & Forecast Animated Maps >
 - Past & Forecast Charts/Tables >**
 - Fire Prescription Planner >
 - NWS Forecast Chart (Stillwater) >
 - NWS Forecast Table (Stillwater) >
 - Relative Greenness Zoom Map >
 - Default Fuel Model Zoom Map >
 - Fire Advisories and Outlooks >
 - 3.9 μ Infrared Satellite Map >
 - Oklahoma Burn Bans >
 - Additional Resources >
 - Contact and Product Information >
 - News >
- Current Fuel Model for Stillwater
- T-Tallgrass with brush
Default is T
- Station Fuel Model Options



Relative Humidity and Winds

- Current Station Conditions >
- Current Maps >
- Past & Forecast Animated Maps>
- Past & Forecast Charts/Tables >
- Fire Prescription Planner >
- NWS Forecast Chart (Stillwater) >
- NWS Forecast Table (Stillwater) >
- Relative Greenness Zoom Map >
- Default Fuel Model Zoom Map >
- Fire Advisories and Outlooks >
- 3.9 μ Infrared Satellite Map >
- Oklahoma Burn Bans >
- Additional Resources >
- Contact and Product Information>
- News >

Current Fuel Model for Stillwater

T-Tallgrass with brush

Default is T

Station Fuel Model Options



Past & Forecast Charts/Tables

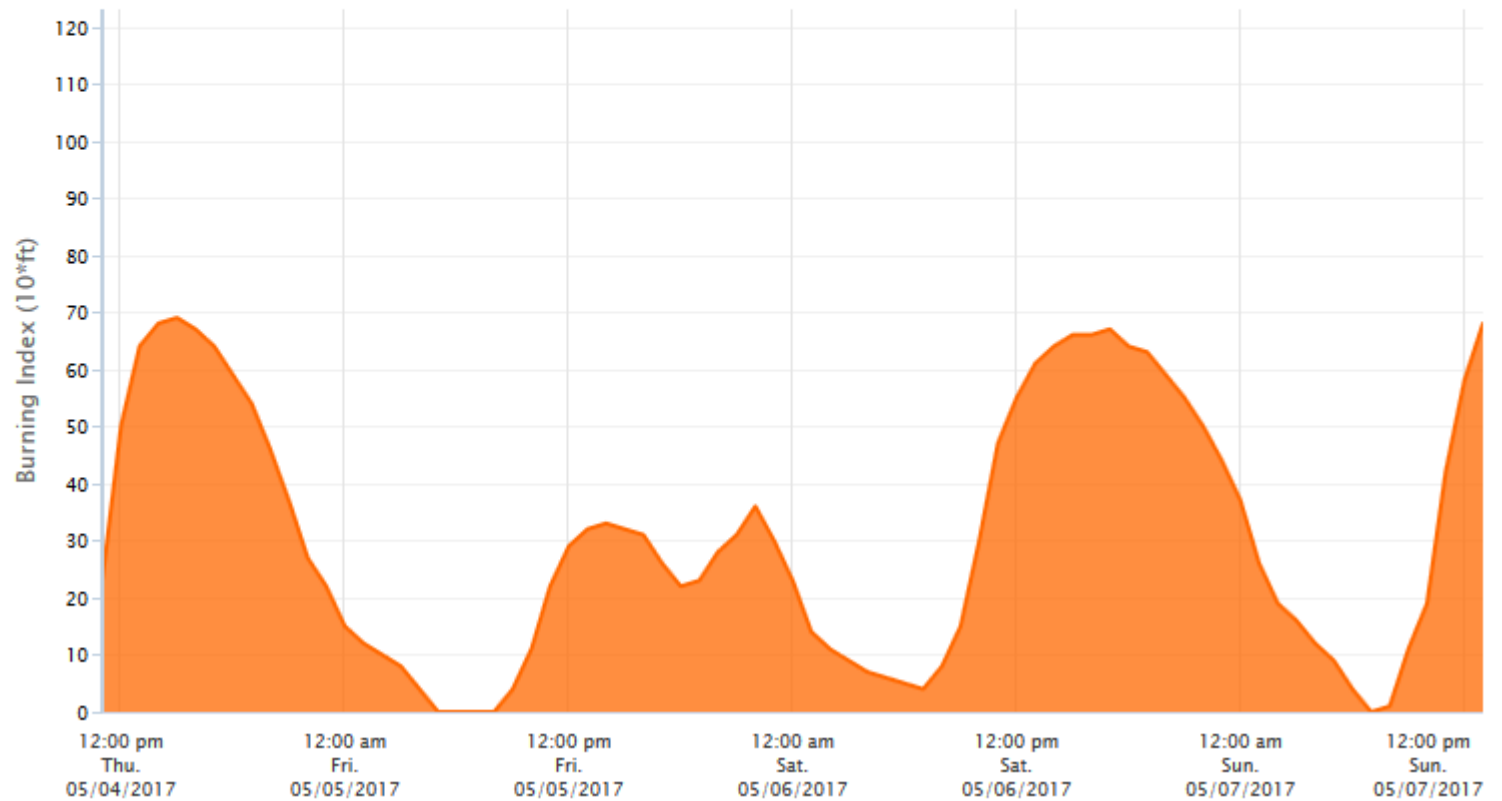
Forecast based on 1 am CDT 05/04/17 NAM; NEXT forecast update expected 11 am CDT 05/04/17

[Back to Charts/Tables Setup](#)

[Share](#)

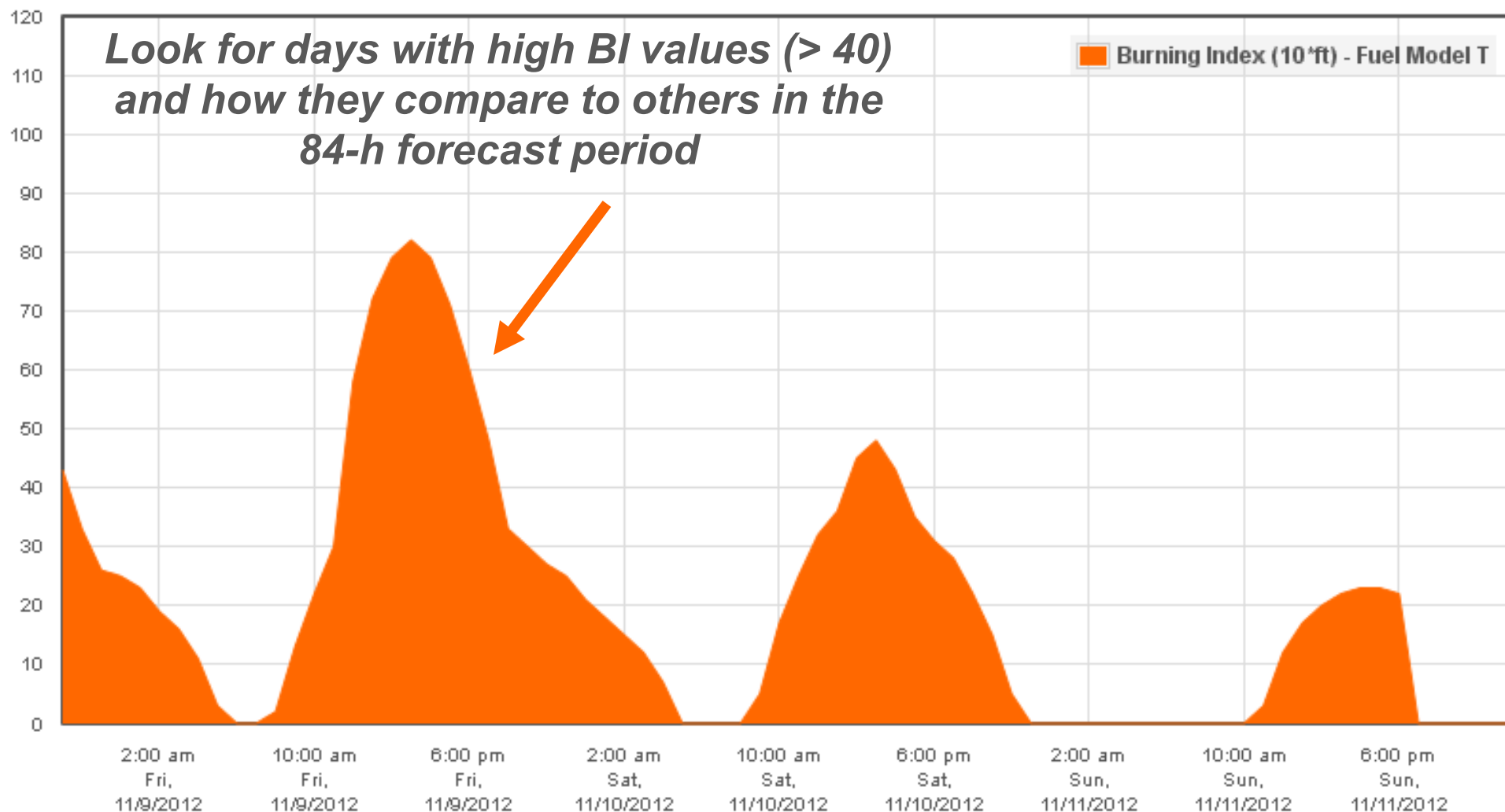
[Tweet](#)

Forecast Firegram Chart for Altus

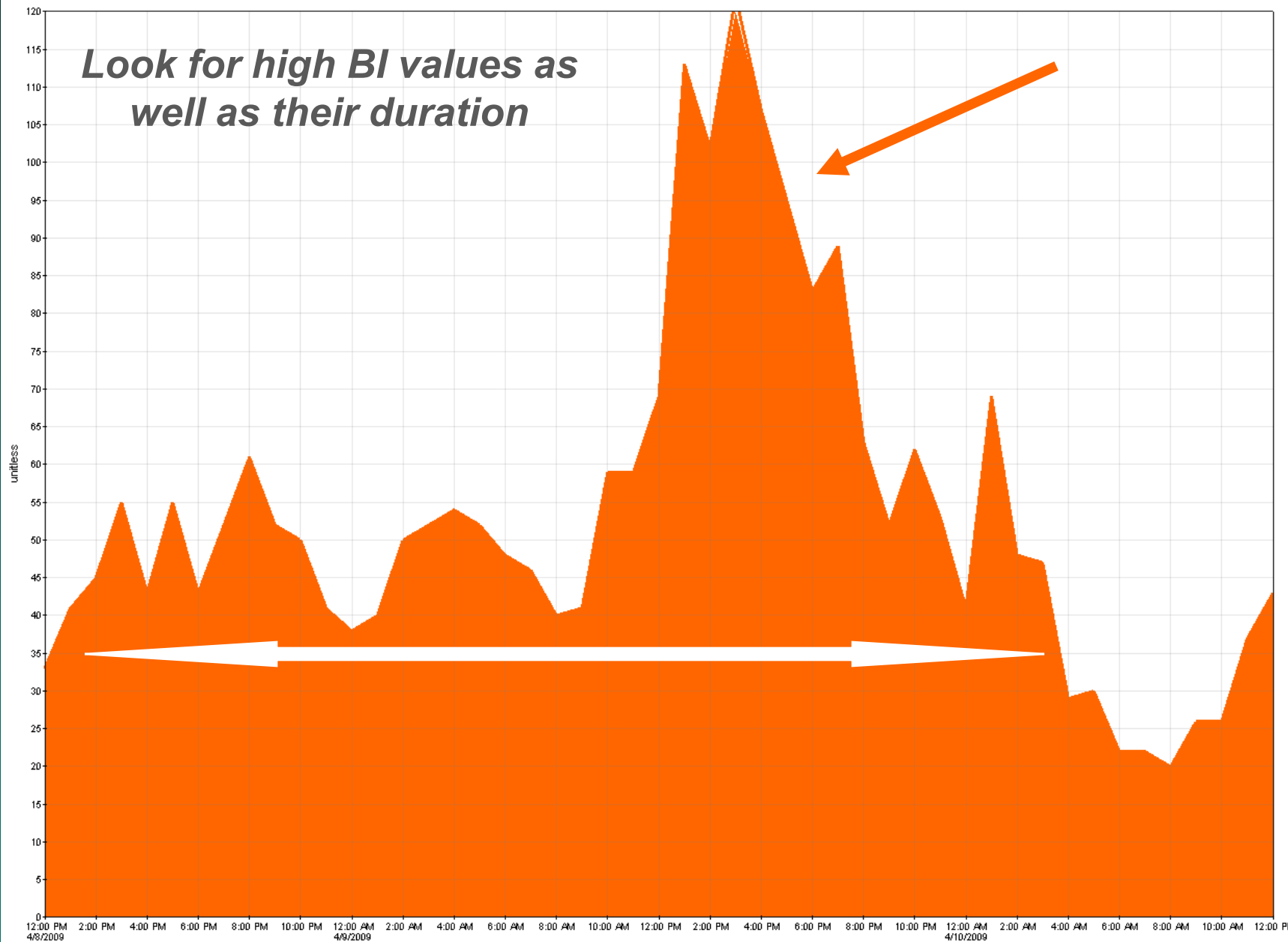


Burning Index

Firegram for Burbank



Waurika: Burning Index (April 9-10, 2009)



Regional Assessment of Fire Danger: ***MAPS***



National Weather Service Fire Weather Advisories and Outlooks

- Current Station Conditions >
- Current Maps >
- Past & Forecast Animated Maps >
- Past & Forecast Charts/Tables >
- Fire Prescription Planner >
- NWS Forecast Chart (Stillwater) >
- NWS Forecast Table (Stillwater) >
- Relative Greenness Zoom Map >
- Default Fuel Model Zoom Map >
- Fire Advisories and Outlooks**
- 3.9 μ Infrared Satellite Map >
- Recent Lightning Activity >
- Oklahoma Burn Bans >
- Additional Resources >
- Contact and Product Information >
- News >

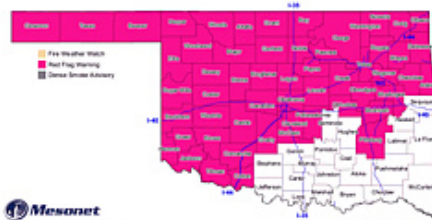
Current Fuel Model for
Stillwater

T-Tallgrass with brush

Default is T

OK-FIRE

Fire Advisories and Outlooks



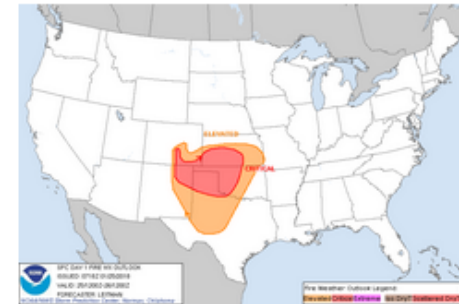
Oklahoma Fire Weather Advisories

[learn more](#)



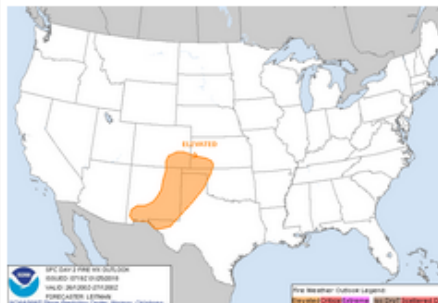
National Fire Weather Advisories

[learn more](#)



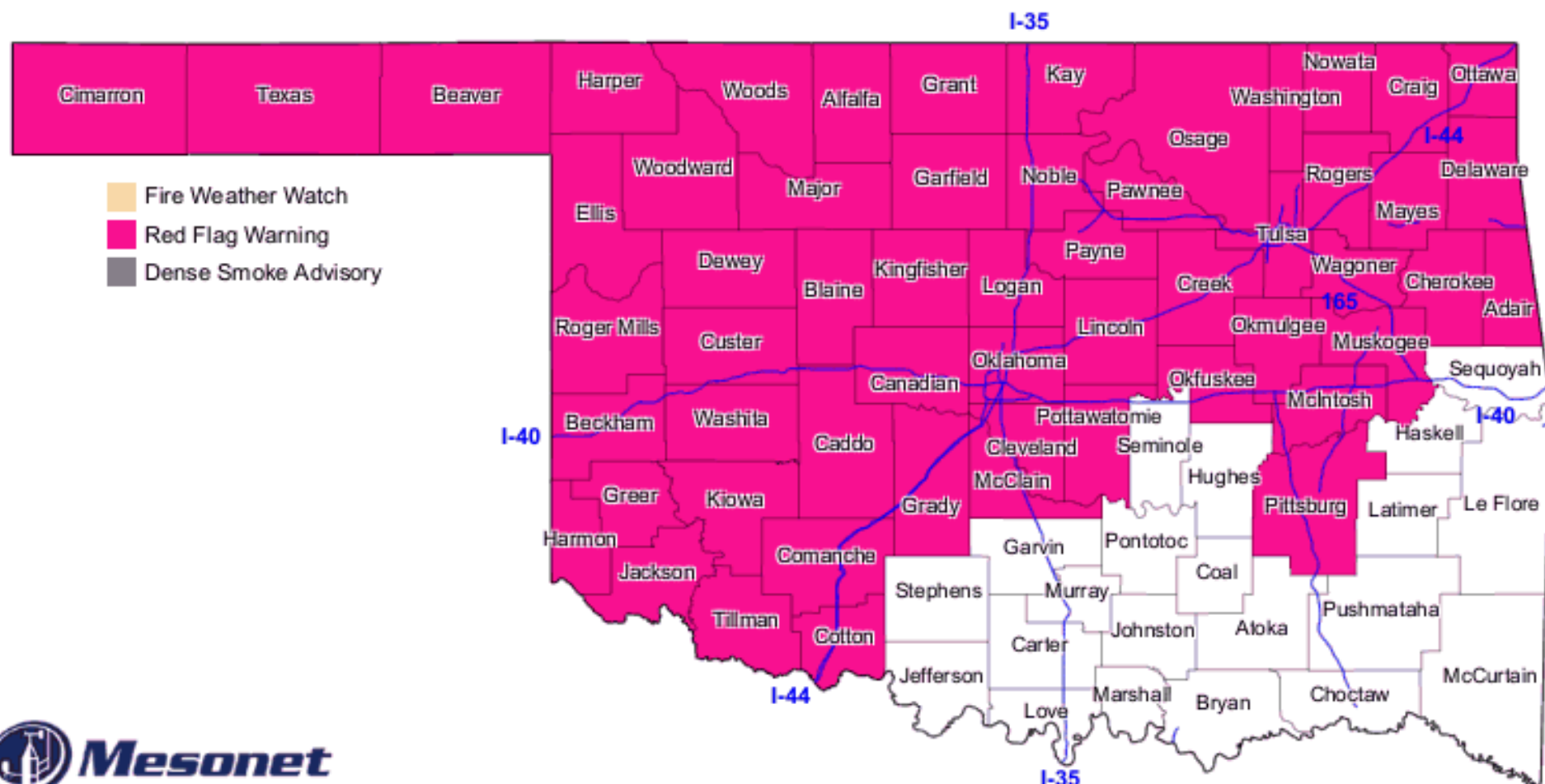
Day 1 Fire Outlook

[learn more](#)



Day 2 Fire Outlook

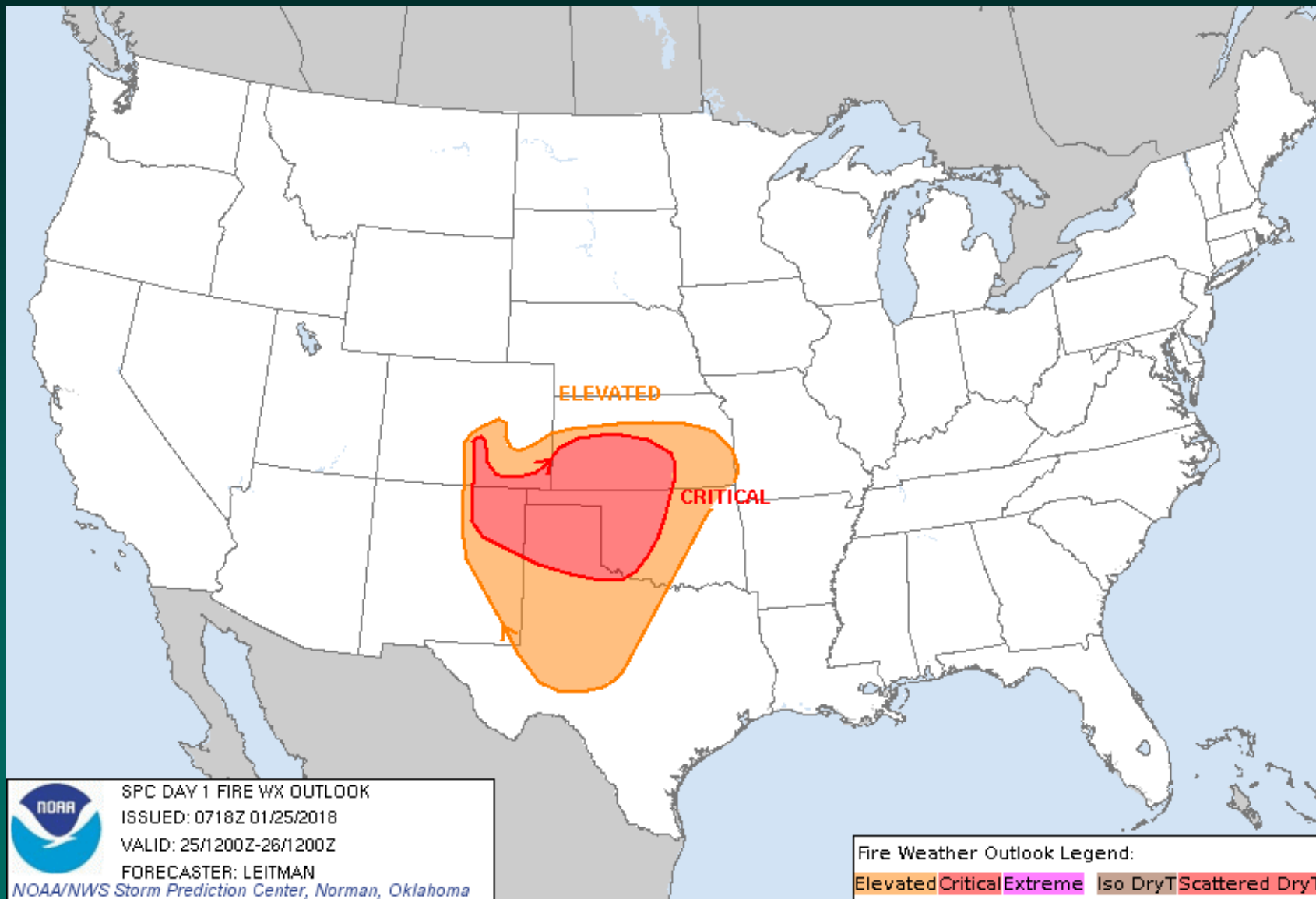
[learn more](#)

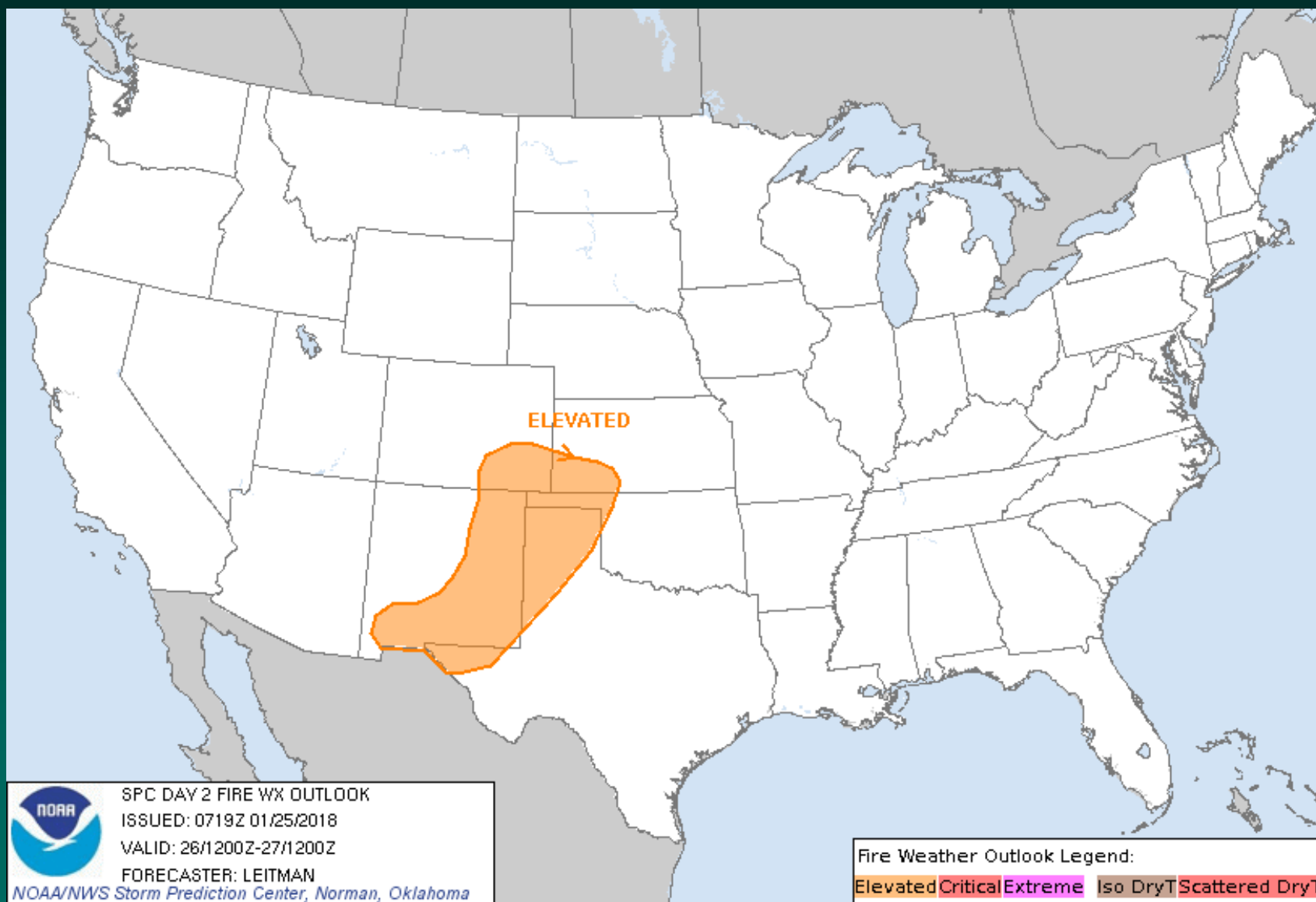


Fire Weather Advisories

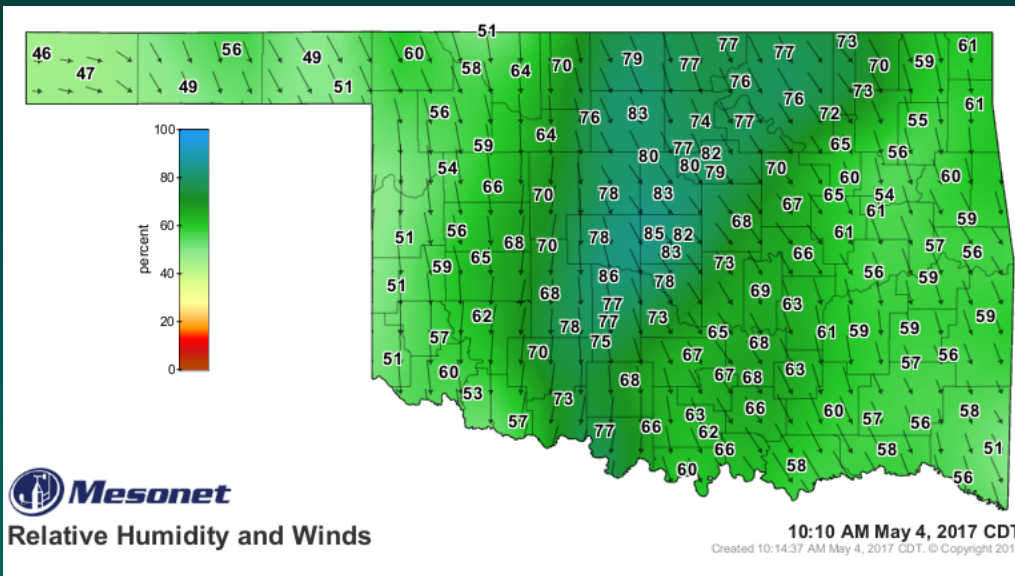
9:07 AM January 25, 2018 CST

Data provided by NOAA's National Weather Service. Created 9:07:11 AM January 25, 2018 CST. © Copyright 2018

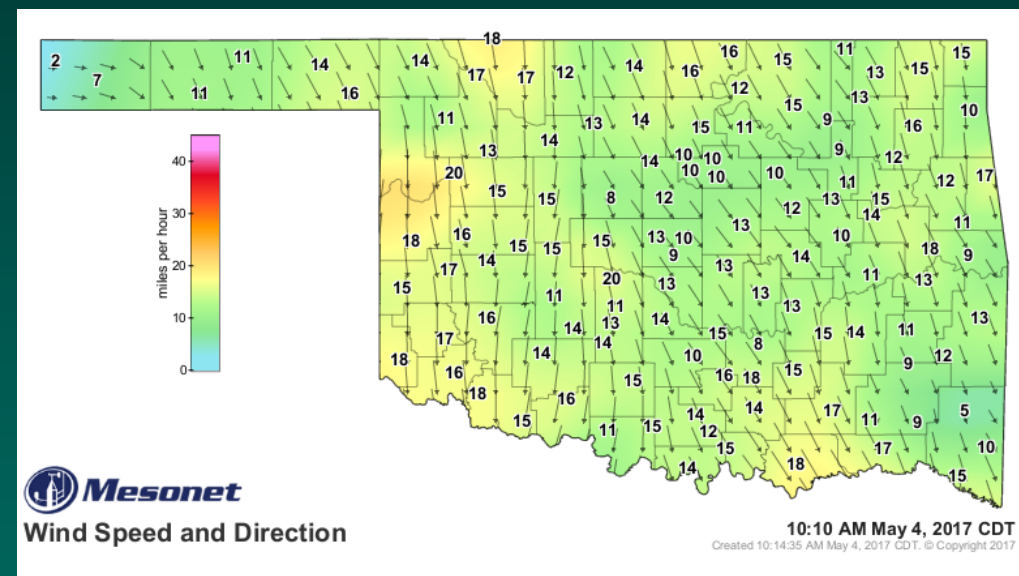




Current Maps of Fire Weather

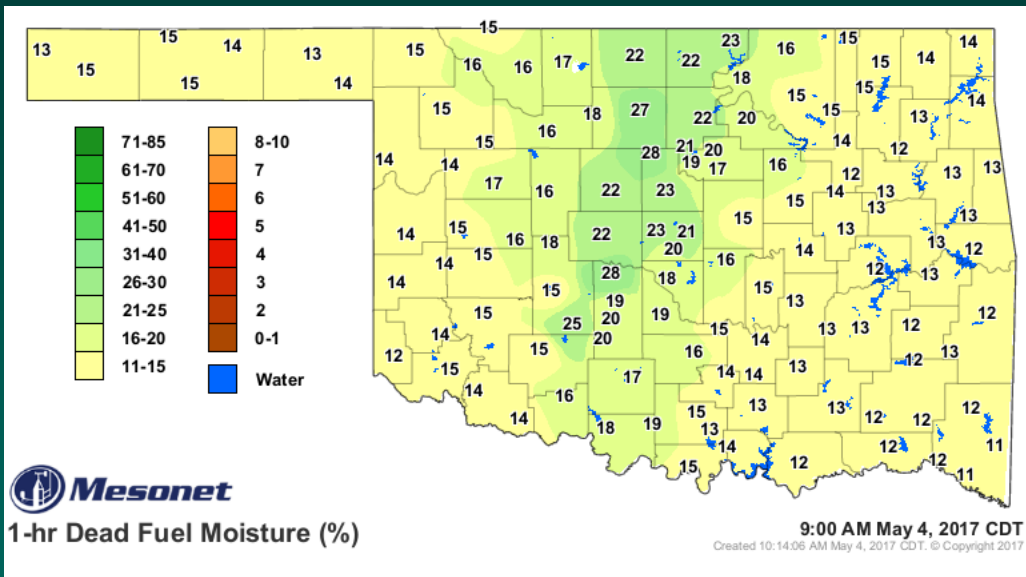


Relative Humidity & Winds

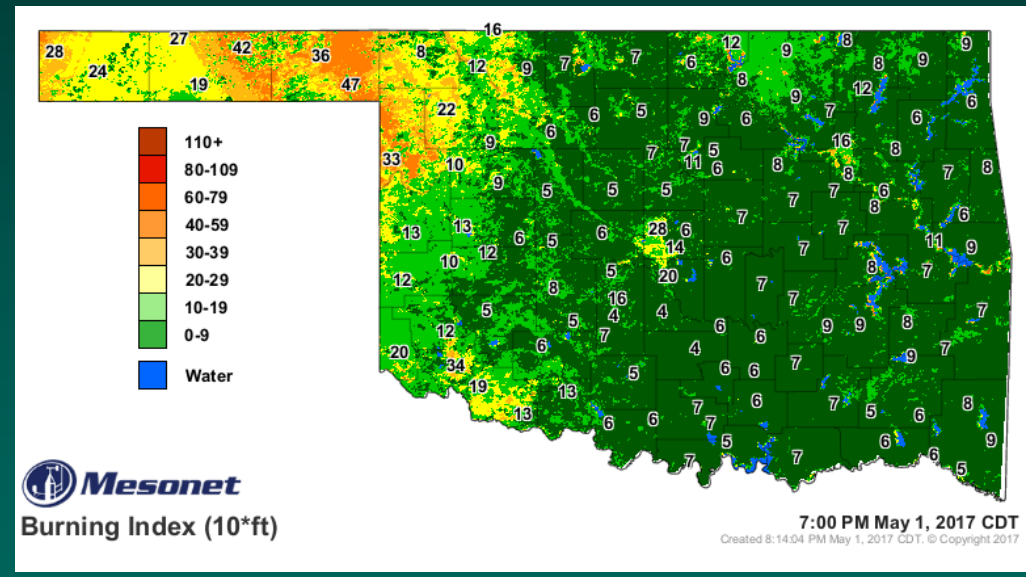


Wind Speed and Direction

Current Maps of Fire Danger

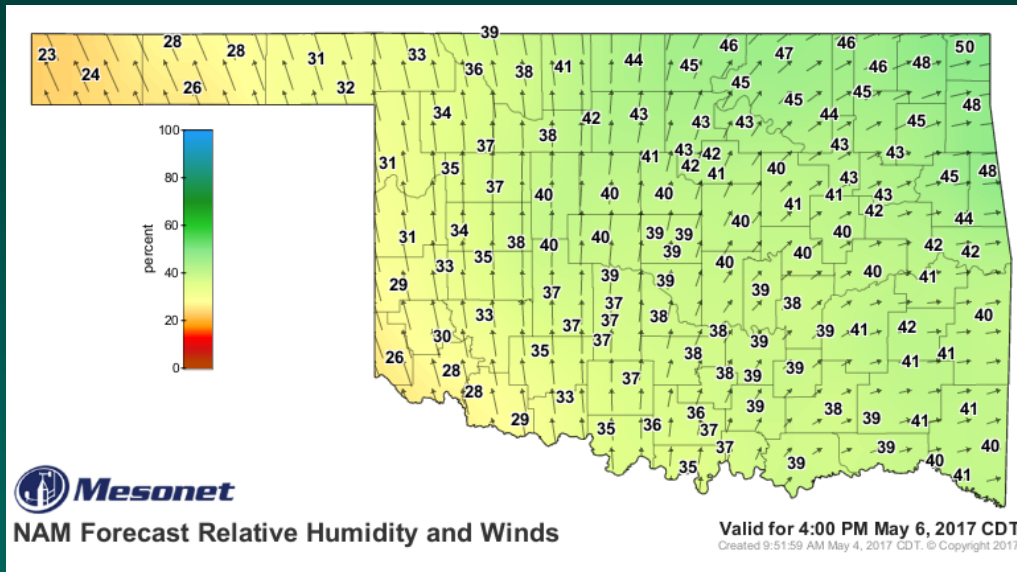


1-hr Dead Fuel Moisture

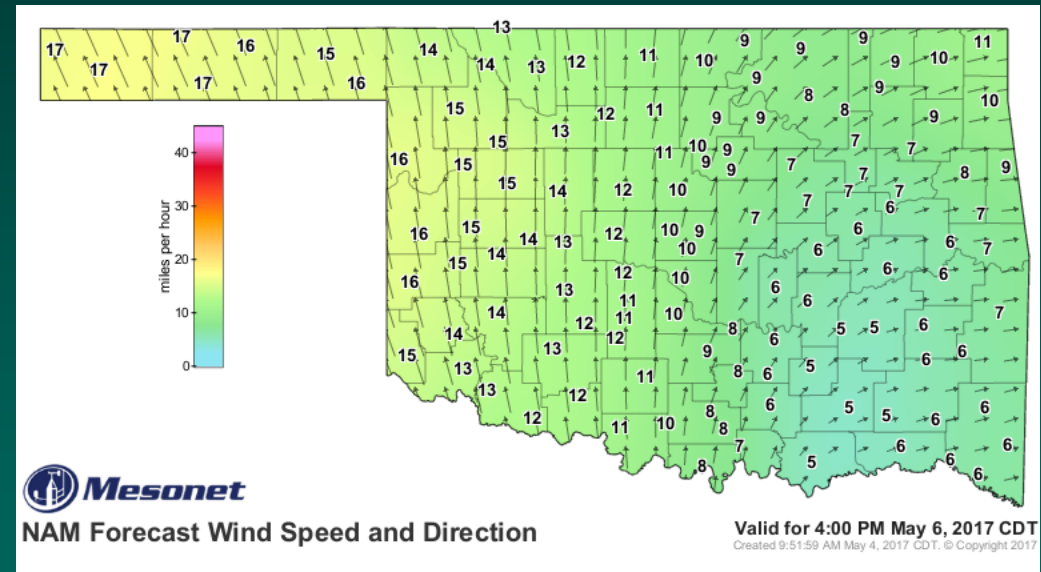


Burning Index

Forecast Maps of Fire Weather

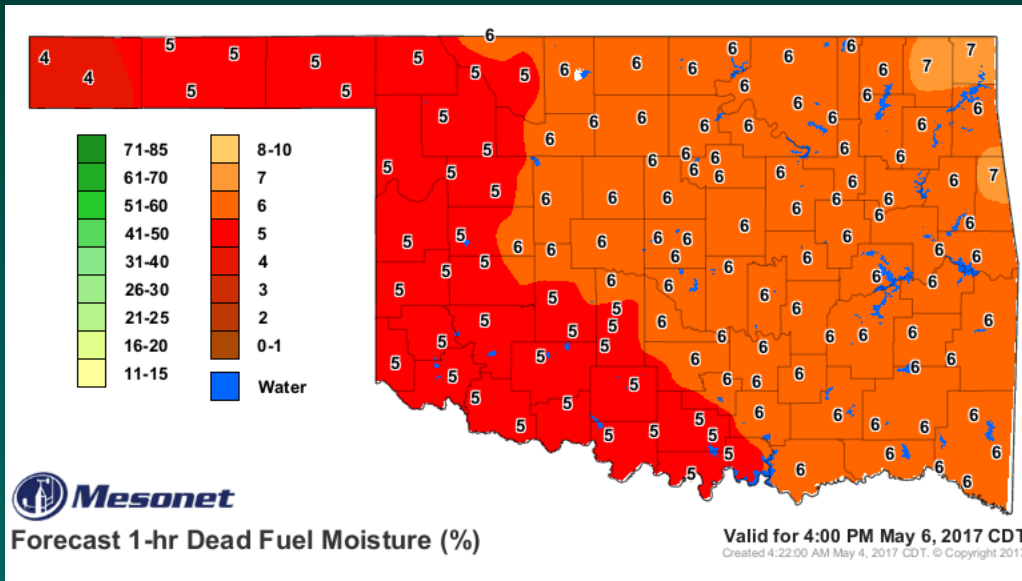


Relative Humidity & Winds

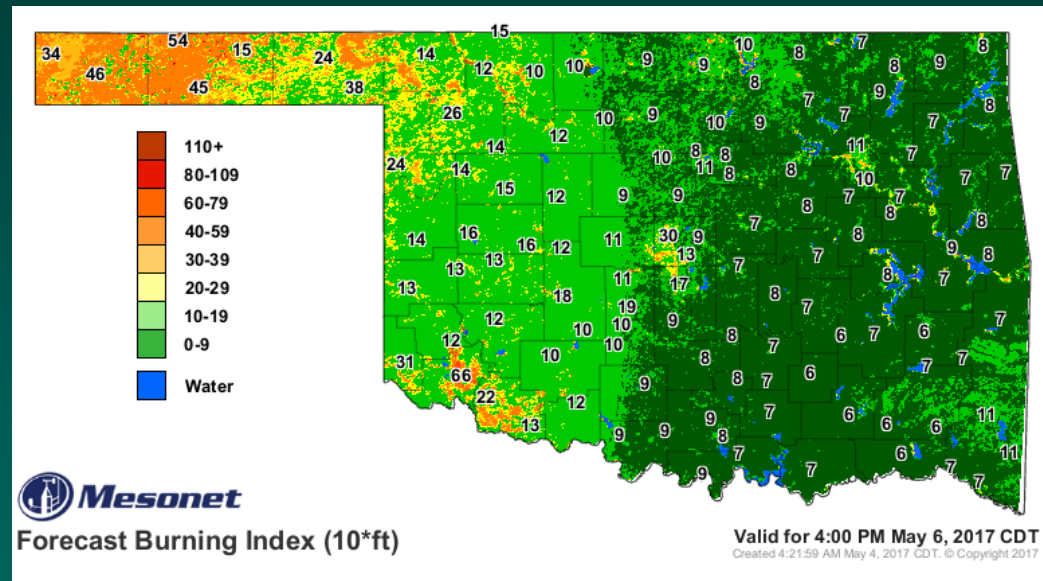


Wind Speed and Direction

Forecast Maps of Fire Danger




1-hr Dead Fuel Moisture



Burning Index

Site-Specific Assessment of Fire Danger: An Example

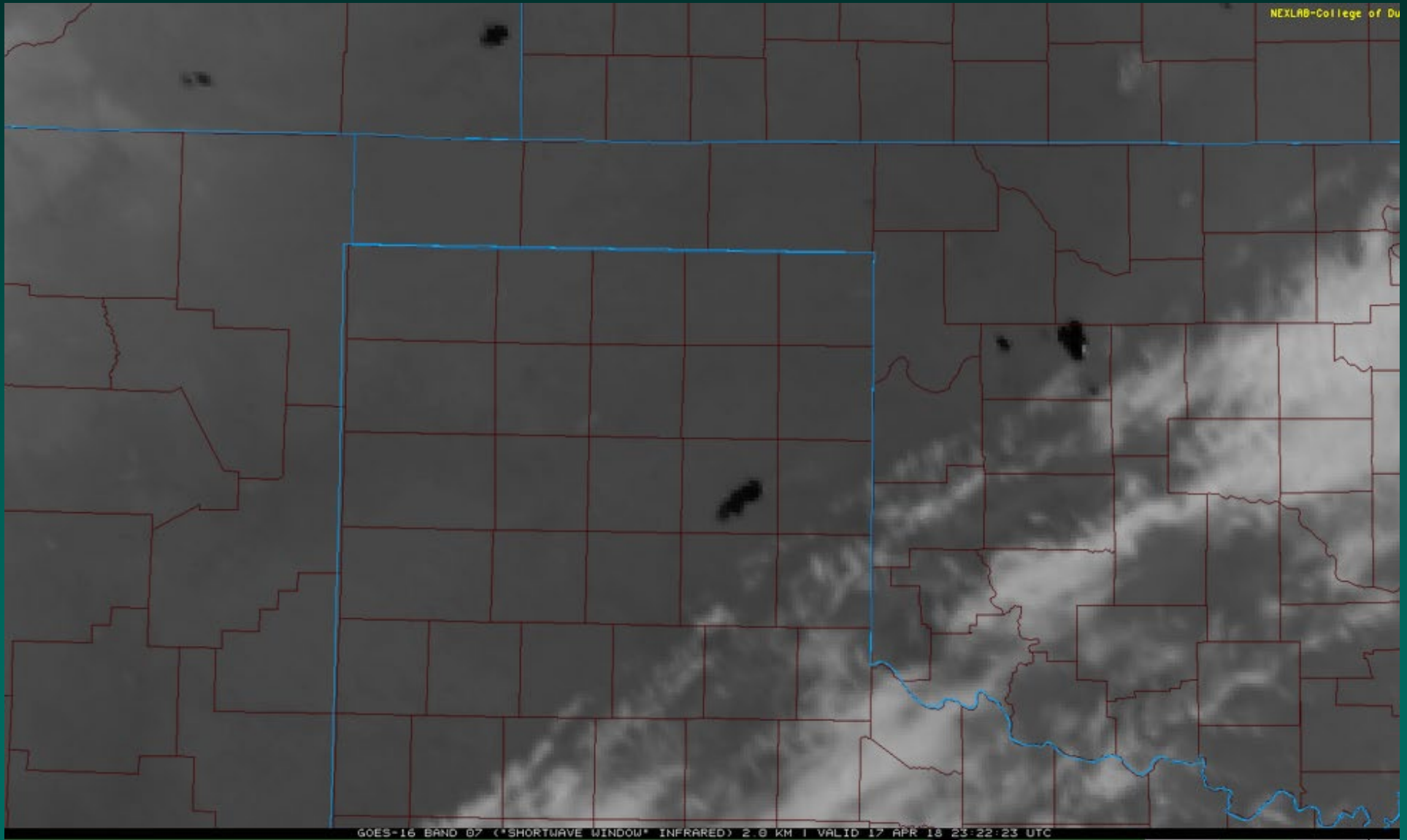


A photograph of a large fire burning in a wooded area. The fire is bright orange and yellow, with a large plume of white smoke rising from it. In the foreground, there is a dirt road and a white sign with black text that reads "20". The background is filled with trees and a hazy sky.

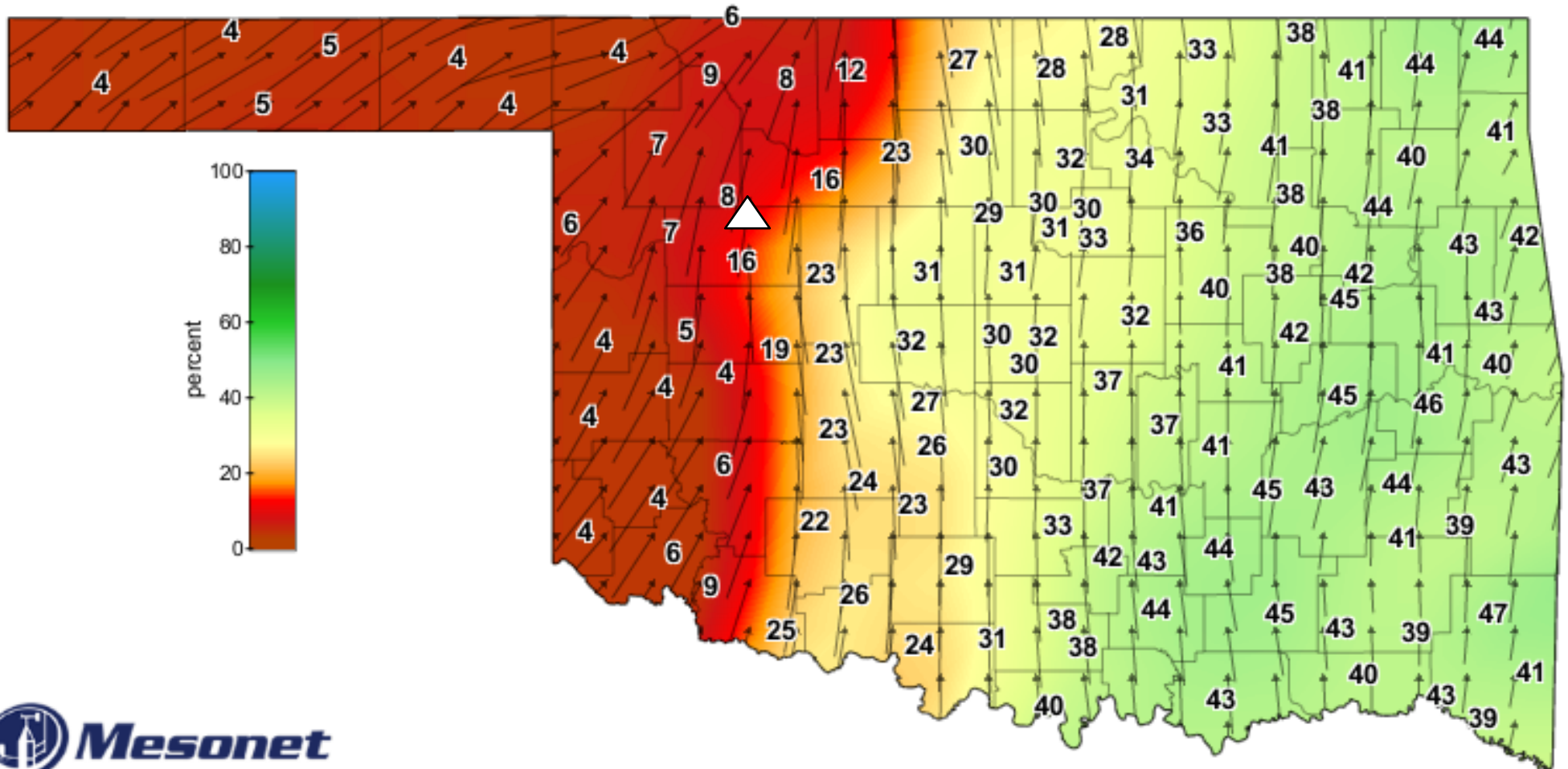
Rhea Fire

April 12-27, 2018
286,196 acres

Rhea Fire – April 17, 2018



Relative Humidity and Winds

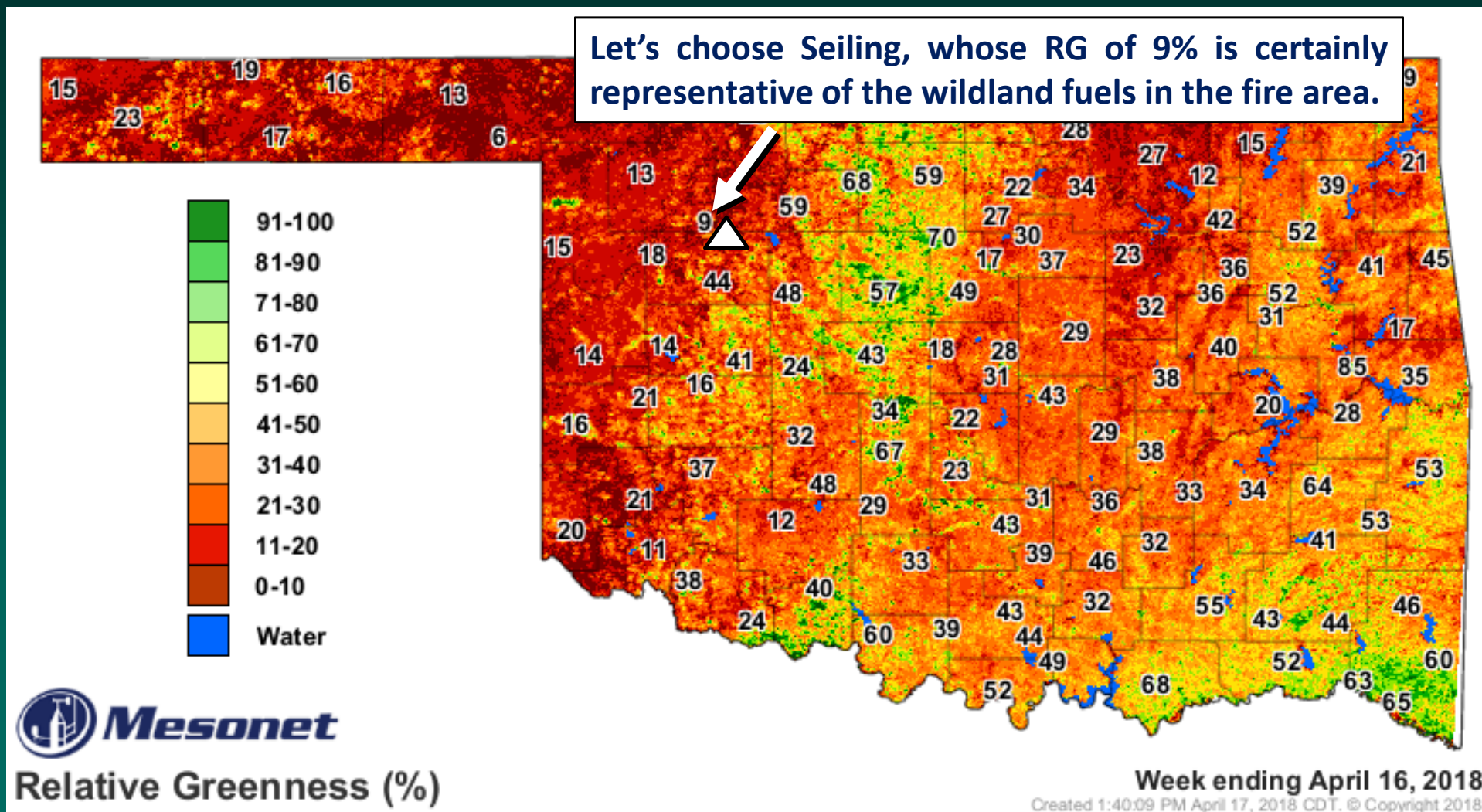


Relative Humidity and Winds

6:00 PM April 17, 2018 CDT

Created 6:05:34 PM April 17, 2018 CDT. © Copyright 2018

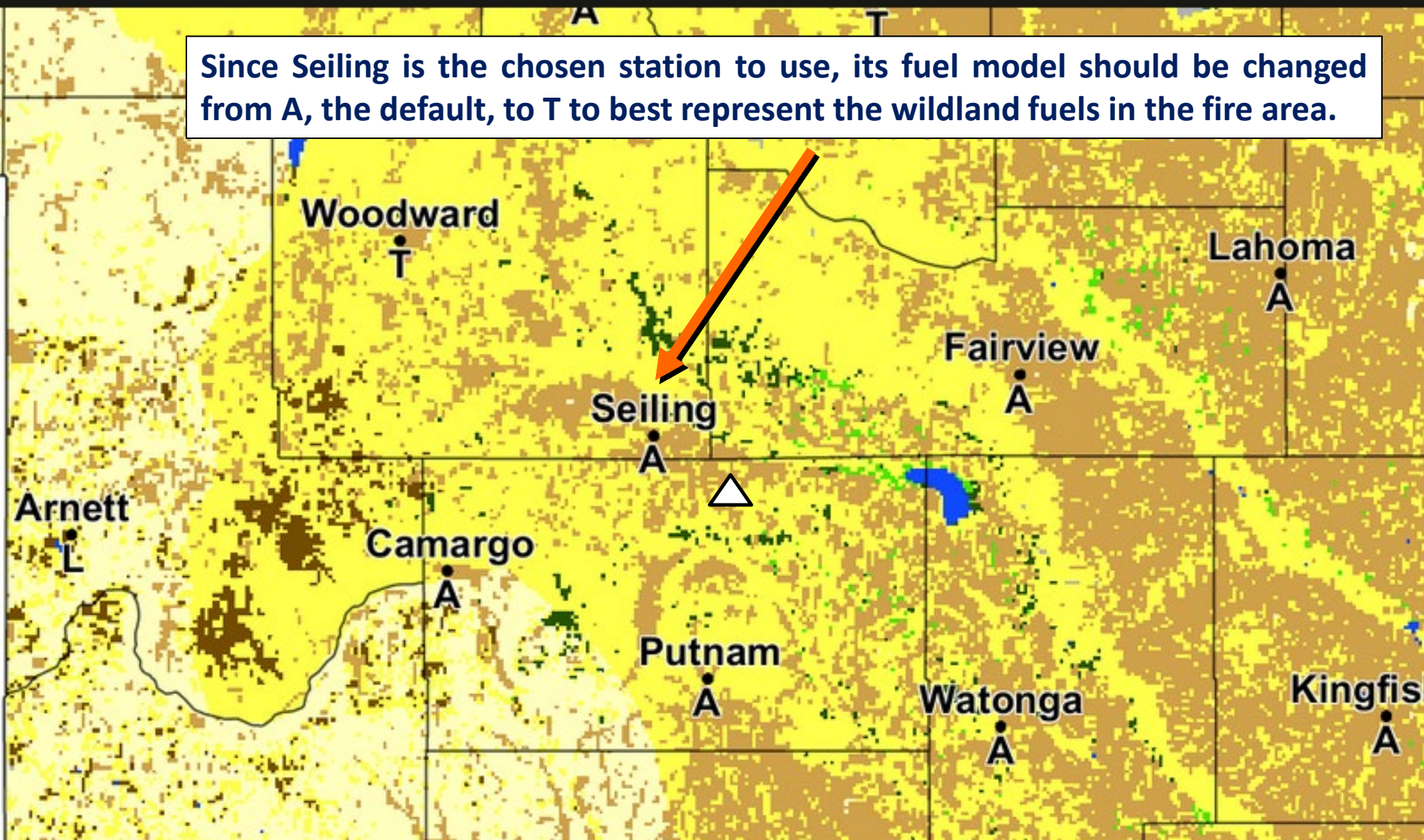
Choose the closest Mesonet station whose Relative Greenness best approximates the current greenness levels of your wildland fuels



For that selected station, choose the fuel model which best fits the fuel complex you wish to model
(normally use one of the 5 fuel models below)

- **Model A – Western annual grasses**
- **Model L – Western perennial grasses**
- **Model T – Tallgrass with open evergreen brush**
- **Model R – Hardwood forest**
- **Model P – Southern pine forest**

Since Seiling is the chosen station to use, its fuel model should be changed from A, the default, to T to best represent the wildland fuels in the fire area.





Share Tweet

- Current Station Conditions >
- Current Maps >
- Past & Forecast Animated Maps >
- Past & Forecast Charts/Tables >
- Fire Prescription Planner >
- NWS Forecast Chart (Seiling) >
- NWS Forecast Table (Seiling) >
- Relative Greenness Zoom Map >
- Default Fuel Model Zoom Map >
- Fire Advisories and Outlooks >
- 3.9 μ Infrared Satellite Map >
- Recent Lightning Activity >
- Oklahoma Burn Bans >
- Additional Resources >
- Contacts and Learning Tools >
- News >

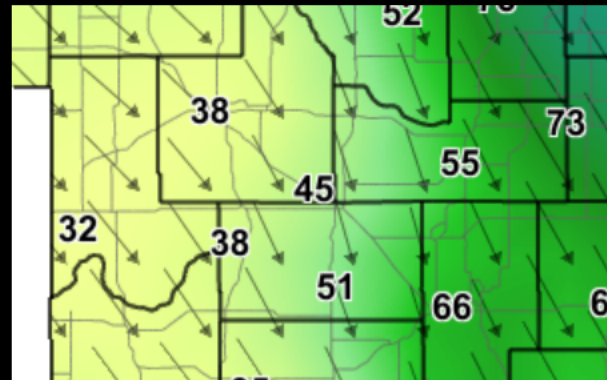
Current Fuel Model for Seiling

A - Western annual grasses / annu

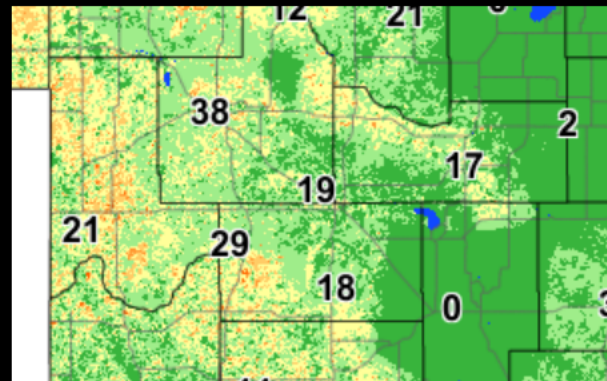
Default is A

Station Fuel Model Options

Current Relative Humidity and Wind Direction



Current Burning Index



Station: **Seiling**

Weather Wed 10/27/21 8:35 pm CDT

Relative Humidity: **45%**
 Past 1-hr RH Change: **-2%**
 10-m Wind: **NNW 12 mph**
 Max Wind Gust: **18 mph**
 Temperature: **58°F**
 24-hr Rainfall: **0.00 in**
 Dispersion: **Moderately Good**
 Sunrise / Sunset: **7:54 am / 6:46 pm**

Fire Danger Wed 10/27/21 8:15 pm CDT

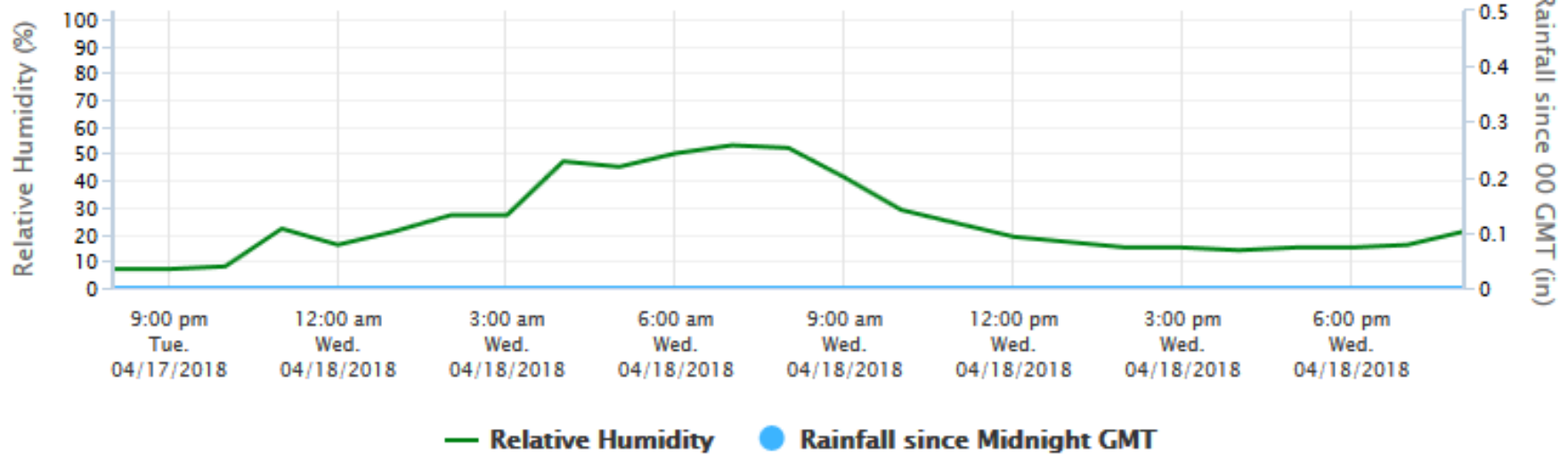
Current Fire Danger: **LOW**

Burning Index: **19**
 Spread Component: **52**
 Ignition Component: **10%**
 NFDRS Fuel Model: **A**
 1-hr Fuel Moisture: **8%**
 10-hr Fuel Moisture: **12%**
 Soil Moisture: **26%**
 KBDI: **526**
 Relative Greenness: **40%**

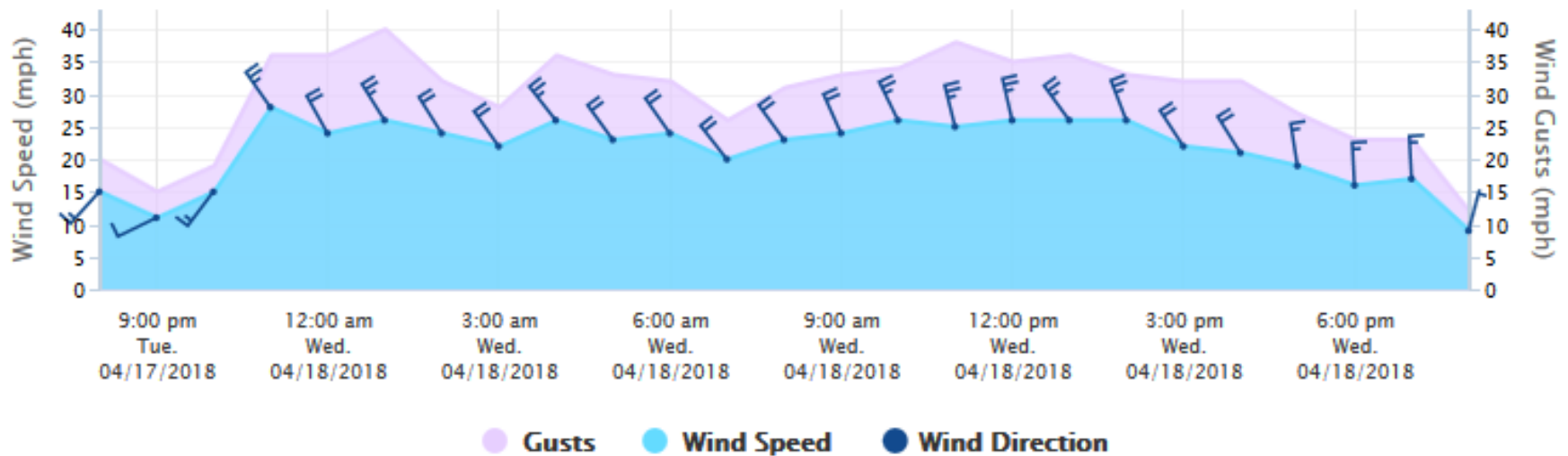
Add a Station



Past Meteogram Chart for Seiling

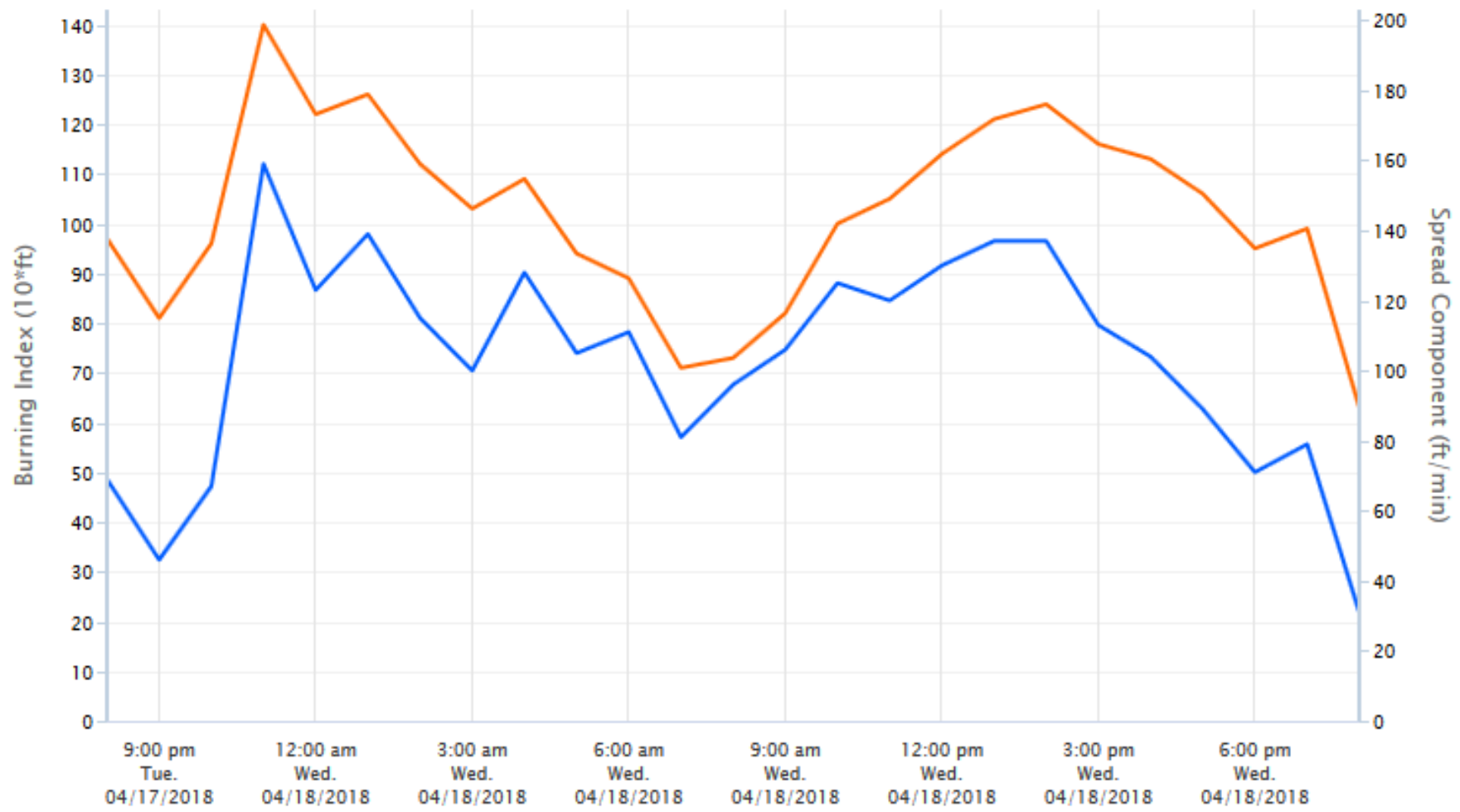


www.mesonet.org



www.mesonet.org

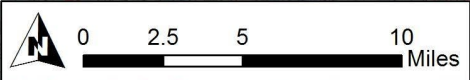
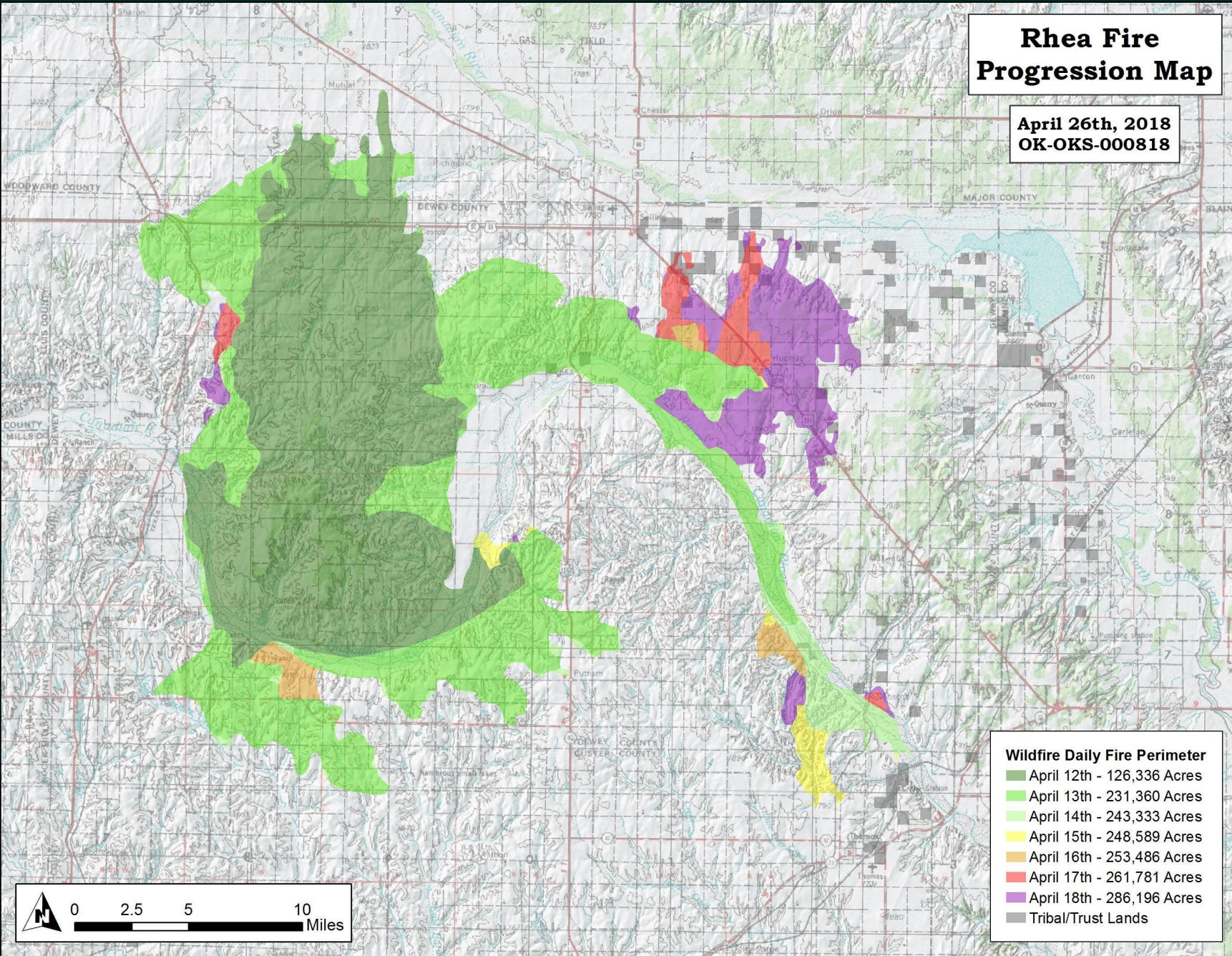
Past Firegram Chart for Seiling



— Burning Index (Fuel Model T) — Spread Component (Fuel Model T)

Rhea Fire Progression Map

April 26th, 2018
OK-OKS-000818







QUESTIONS ?



Group Exercise:

Operational Procedures for Fire Danger Assessment

