

FIRE BEHAVIOR FORECAST

FORECAST NUMBER: FBF #8	TYPE OF FIRE:
FIRE NAME: Spring Preparedness	OPERATIONAL PERIOD: Day
DATE ISSUED: February 15, 2018	TIME ISSUED: 09:30
UNIT: OK-SHA & OK-PAA	SIGNED: _____
	Typed/printed: Steve A Smith

WEATHER SUMMARY

Unseasonably warmer temperatures can be expected again today. Southwest winds will be strong and gusty with scattered high level clouds persisting for most of the day. **An approaching cold front will enter the NW portions of the State around 15:00 and move SE bringing much cooler temperatures along with winds shifting to the NNW. Expect a transition with wind direction and velocities as the front nears and passes. Winds will become lighter and more Westerly just ahead of the front and initially will also be light from the NW after the front arrives but will soon becoming very gusty Northerly winds.** Relative humidity values will drop to near critical levels by 14:00 today along with very strong winds, combined with the dry fuels will likely produce problematic fires this afternoon that will be highly resistant to control, **especially in the areas North of Interstate 44.**

Temps: Low to Mid 80's, RH: 20 - 30%, Winds: AM - Midflame – Southwest 7 – 14 G 20/ PM - WSW 8 - 15 mph G18

Fuels: Fuels continue to remain extremely dry as a result of the severe drought conditions. Fire behavior will be most active in Grass Fuels (GR7) exhibiting the highest rates of spread with moderate to **high** potential for wind driven surface fires today, especially in the Northern portions of the Zone. Continue to expect active burning in timber stands (FM9) with lesser rates of spread, but drought stressed heavy fuels will ignite easily, readily burn and have long duration residence times, requiring extensive mopup and patrol. **Spotting may be a significant concern today in highly receptive grass fuels.**

Calculated Fuel Moistures for today: 1-hour fuels...5% 10-hour fuels...9% 100-hour fuels:...11 % 1000-hour fuels...8 - 9%
 Live Herbaceous Fuels...54% Live Woody Moisture...94%

Probability of Ignition: 43 - 66% KBDI: 229 Haines Index: 4 : Low Potential

FIRE BEHAVIOR

Calculations based on Midflame Wspd's 5 to 15 mph & 1-hr FM 5 to 8 %

Fuel Type	Flame Length	Rate of Spread (Head Fire)	Spotting Distance	1 hr Size Prediction	1 hr Fwd Spread Distance
High Load, Dry Climate Grass (GR7 – 70%) & Moderate Load, Humid Climate Timber-Grass-Shrub (TU3 – 30%)	22 - 37 ft	162 - 435 ft/min	1,915 - 5,416 ft	667 – 2,972 ac	1.8 – 4.9 mi
High Load, Dry Climate Grass (GR7 – 100%)	25 - 37 ft	217 - 526 ft/min	1,915 – 5,416 ft	1,192 – 4,341 ac	2.5 – 6.0 mi
Moderate Load, Humid Climate Timber-Grass-Shrub (TU3 – 100%)	9 - 13 ft	47 - 108 ft/min	1,915 – 2,653 ft	56- 183 ac	0.5 – 1.2 mi
Timber (FM9)	4 - 6 ft	18 - 50 ft/min	1,915 – 1,549 ft	8 - 40 ac	1,056 – 3,168 ft

SMOKE MANAGEMENT:

Mixing HGT – 7,803 ft
 Transport Winds - W @ 28 mph
 Ventilation Rate – 14,943 KT-FT

Category Day – 4

Recommended Minimum Screening Distance:
(Screening Distance is the downwind distance you should examine for possible smoke sensitive sites such as airports, highways, communities, recreation areas, schools, hospitals, nursing homes, etc.)

- **Broadcast Burn - 5 mi**
- **Pile Burn - 8 mi**

Forecasted Air Quality Index:

- Today – Good
- Tomorrow - Good

Health Message: None

Category Day Guidelines

Category	Ventilation Day Rate	Burning Guidelines
I	<2,000	No burning
II	2,000-4,000	No burning until 11 a.m. and not before surface inversion has lifted.
III	4,000-8,000	Fire out by 4 p.m. Daytime burning only after inversion has lifted.
IV	8,000-16,000	Burn anytime.
V	>16,000	Unstable and windy. Excellent smoke dispersal. Burn with caution.

AIR OPERATIONS:

Aircraft availability may be limited by wind conditions today. Rotor-wing aircraft may be restricted. Pilots will have to compensate for significant drift with aerial delivery of water and/or retardant. Smoky conditions may restrict pilots' visibility on active fires.

SAFETY

High Potential for wind driven surface fires today! Extremely dry fuels can burn with high intensities and may exhibit rapid rates of spread, especially with influences from terrain and fuel loadings. Do not attempt frontal assault on wind driven fires! Constant evaluation and re-designation of escape routes and safety zones will be imperative in fast moving surface fires (grass). Spot fires, especially when Eastern Red Cedar trees become involved, could be numerous and compromise escape routes. Expect numerous burning snags in timber stands due to the drought stressed heavy fuels which could be a source of embers that may start spot fires or fall across control lines, as well as fall on suppression resources. Smoke in close proximity to the fireline may be very concentrated and firefighter exposure should be monitored and mitigated to reduce potential for smoke health impacts.

Extended Outlook

	Friday 2/16	Saturday 2/17	Sunday 2/18	Monday 2/19	Tuesday 2/20
Max Temp	45	55	60	65	55
Min RH %	29	42	53	54	46
Wind (mph)	15	5	5-15 G25	15 G30	10-15 G25
Direction	NNE	W	S	S	N
Sky Cover	PC	MC	PC	MC	MC
POP %	0	50	0	30	50
CAT Day	1	3	3	5	4

Drought Update

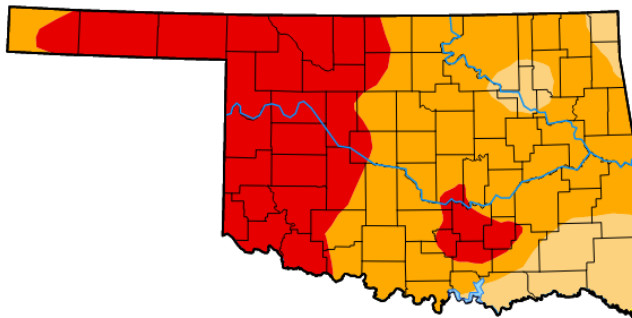
Oklahoma

Map released: Thurs. February 8, 2018

Data valid: February 6, 2018 at 7 a.m. EST

Intensity:

- None
- D0 (Abnormally Dry)
- D1 (Moderate Drought)
- D2 (Severe Drought)
- D3 (Extreme Drought)
- D4 (Exceptional Drought)

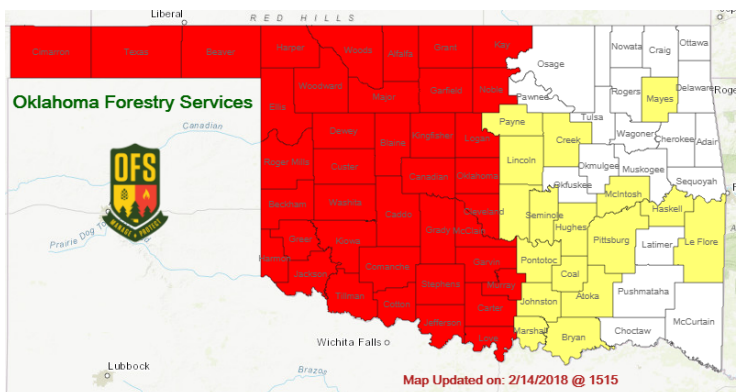


Author(s):

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The Drought Monitor focuses on broad-scale conditions. Local conditions may vary. See accompanying [text summary](#) for forecast statements.

Current Burn Bans



RED = Governor's Burn Ban
YELLOW = County Burn Ban

For the most current information on Burn Bans click on the following link: <http://www.forestry.ok.gov/burn-ban-info>

Remember... ONLY YOU can prevent wildfires! Enjoy Oklahoma's wildlands responsibly.

Report any suspicious wildland fire activity on the Arson Tip Line: 1-866-662-7766 (1-866-NO ARSON).

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