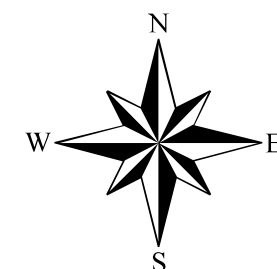


**4 Day Near Term Fire Behavior
Middle Fire**



Shasta-Trinity National Forest



1:8,999

0 0.2 0.4 0.6 0.8 Miles

1 inch = 0.14 miles

9/17/2019

Infrared Data 09/16/2019 2156 Hrs.

- Heat Perimeter 1,328 Acres
- Intense Heat

NTFB Daily Burn Period

- Ignition
- 09/17/2019
- 09/18/2019
- 09/19/2019
- 09/20/2019

Daily Predicted Growth Acres

Burn Periods			
Date	Start Hour	End Hour	Acres
09/17/2019	14	18	17.1
09/18/2019	14	18	10.5
09/19/2019	13	18	113.9
09/20/2019	12	18	297.4

Daily burn acres represent the acres of increase for that day predicted by the Near Term Fire Behavior model in WFDSS, not the total fire size. As noted below, this growth assumes no suppression action.

This is a near term fire behavior model for the Middle Fire, run for 4 days starting 09/17/2019. Very limited spread predicted 09/17/2019 and 09/18/2019 due to predicted precipitation and very short burn periods. Increased spread on the remaining days aligns with observed growth patterns during previous dry periods on the fire. The intense heat from the IR data on 09/16/2019 at 2156 hrs. was used as the ignition file with remainder of the heat perimeter acting as a barrier. Highest potential for spread is in timber litter / understory fuels and fuels with herbaceous component that can dry out relatively rapidly after cool/wet weather passes. These fuels are present with a heat source on the southern portion of the fire. Similar conditions exist in the areas of the spot fires to the east, but suppression actions may render these heat sources invalid. All fire growth assumes heat lasting through predicted precipitation event. The largest fire growth over the past week has occurred when slope and fuels align during dry periods; expect this pattern to continue to be main driver of fire behavior. Model indicates potential to reach MAP 2 in 4 days. Backbone RAWs used for weather information with fuel moistures calibrated by on-site fuel moisture sampling. NTFB model does not capture growth via rollout accurately, so growth via rolling material may be observed but is not displayed in the model. Model assumes free burning fire with no suppression actions. Model is valid under assumed fuels/weather conditions and should be updated if conditions change.