FS PRO PLANNING
EAST CASTLE ZONE
SEQUOIA COMPLEX
CA-SQF-002622
09/20/2020

Datum: NAD 83

0 5 10 Miles

Castle - 134,970 Acres
Shotgun - 832 Acres

Perimeter obtained by infrared imagery on Sept. 19, 2020 at 2200 hrs

Northern Rockies Team 1
September 20, 2020 - 1235 hrs

This FSPro run is a geospatial probability analysis of the potential fire spread that could occur over the next 7 days (September 20-26) on the East and West Zones of the Castle Fire. This analysis uses 2 days of forecasted weather along with historical data used as the basis of weather and fire danger indices input into the fire spread models for the remaining 5 days. For the climatology, 20 years of weather data were used with winds modified slightly in order to generalize terrain influences.

This map is a combination of output run for east and west sides of the fire because different weather patterns are found in the Kern River drainage than in the forks of the Tule. Output are overlaid and may have some indiscrepancies at the seam.

This analysis assumes no suppression actions are taken. The ignition locations used to initiate the fires in this run were placed on active portions of the fire with significant heat estimated from infrared data and perimeter growth. Some barriers were placed in the vicinity of Little Horse Meadow. This model does not inherently capture diurnal winds or increased fire behavior when winds and canyons are aligned, so could underestimate the probability of fire reaching points on the landscape where these factors are highly influential.

Fire Spread Probability
- 80 - 100%
- 60 - 79%
- 40 - 69
- 20 - 39%
- 5 - 19%
- 0.2 - 4.9%
- < 0.2%

SEQUOIA NATIONAL FOREST
KINGS CANYON NATIONAL PARK
SEQUOIA NATIONAL PARK
INYO NATIONAL FOREST

Wilsonia
Grant Grove Village
Cedarbrook
Pinehurst
Redwood Mountain Grove
Hartland
Sierra
Glen
Badger
Auckland
Red Fir
Lodgepole
Giant Forest
Ellis
Place
Advance
Ash Mountain
Mineral King
Three Rivers
Case Mountain Recreation Area
Case Mountain
South Fork
Lemon Cove
M.A.P. 22
M.A.P. 20
M.A.P. 16
M.A.P. 6
Dennison Mountain
M.A.P. 18
Blue Ridge Repeater
Mountain Home
Balch Park
Doyle Springs
Sequoia Crest
Casa Vieja Meadows
M.A.P. 4
Osa Meadows
M.A.P. 17
Alpine
Mahogany Flat
Camp Nelson
Cedar Slope
M.A.P. 9
Lloyd Meadows
Pyles Camp
Pierpoint
Coy Flat
Little Horse Meadows
Springville
Mountain Aire
Quaker Meadow
Ponderosa
M.A.P. 13
Beach Meadows
Blackrock Station
Globe
Smith Mill
Troy Meadows
M.A.P. 15
M.A.P. 21
Durrwood Camp
Tule River Communities
Wheatons
M.A.P. 12
Kennedy Meadows
Redwood Corral
Johnsondale
Road End
California Hot Springs
Pine Flat
River Kern
Kernville
Lake Isabella

Planning Area
Wildfire Daily Perimeter
Uncontrolled Fire Edge
Contained Line
Zone Break
MAP

This map is produced from the Fire Spread Probability (FSPro), a geospatial probabilistic model that predicts fire growth, and is designed to support long-term decision-making (more than 5 days). It calculates and maps the probability of fire spread, in the absence of suppression, from a current fire perimeter or ignition point for a specified time period. FSPro calculates and maps the probability that fire will visit each pixel on the landscape of interest during the specified period of time, in the absence of suppression, based on the current fire perimeter or ignition point. The results do not predict actual fire perimeters, but instead show the probability that each cell will burn. The FSPRO map produced is often misinterpreted as a "perimeter map" or "progression map", it is neither.