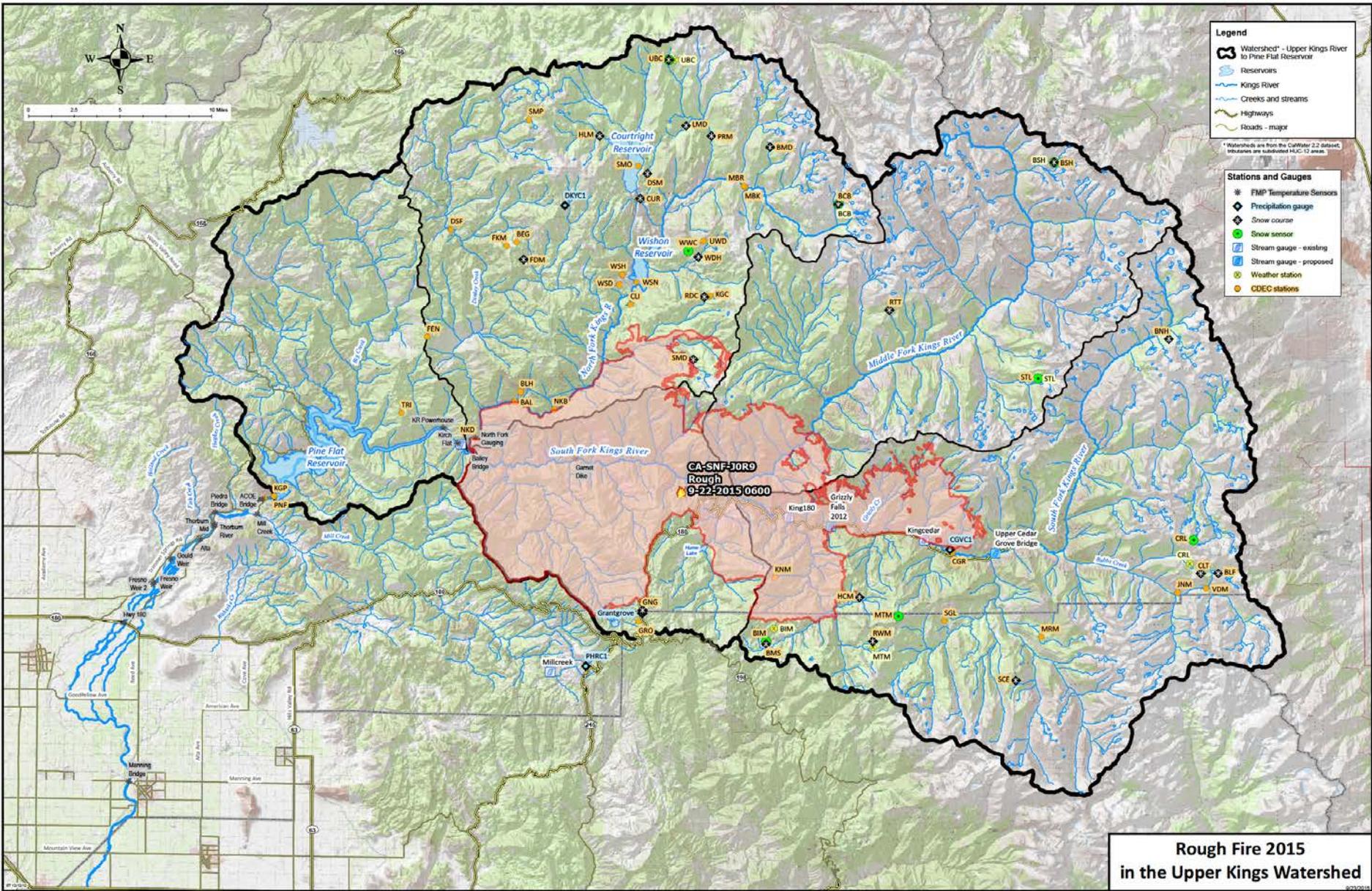


Rough Fire 2015



KRWA Executive Committee
October , 2015
Steve Haugen, Watermaster





Rough Fire Status – 10/14/2015

- 151,623 acres (all in the Kings River Watershed)
- 95% Contained
- Started July 31, 2015 by lightening strike
- Generally considered contained. Some of the Eastern edge is burring in granite with no containment line. Interior islands still smoldering.
- Current Assets: 50 people, 1 helicopter as needed.
- Cost to fight: \$120 million

Fire Footprint Jurisdictions

- Kings Canyon National Park: 9,413 acres
- Sequoia National Forest: 82,573 acres
- Sierra National Forest: 58,541 acres
- State Lands: 6 acres
- Private Lands: 1,090 acres

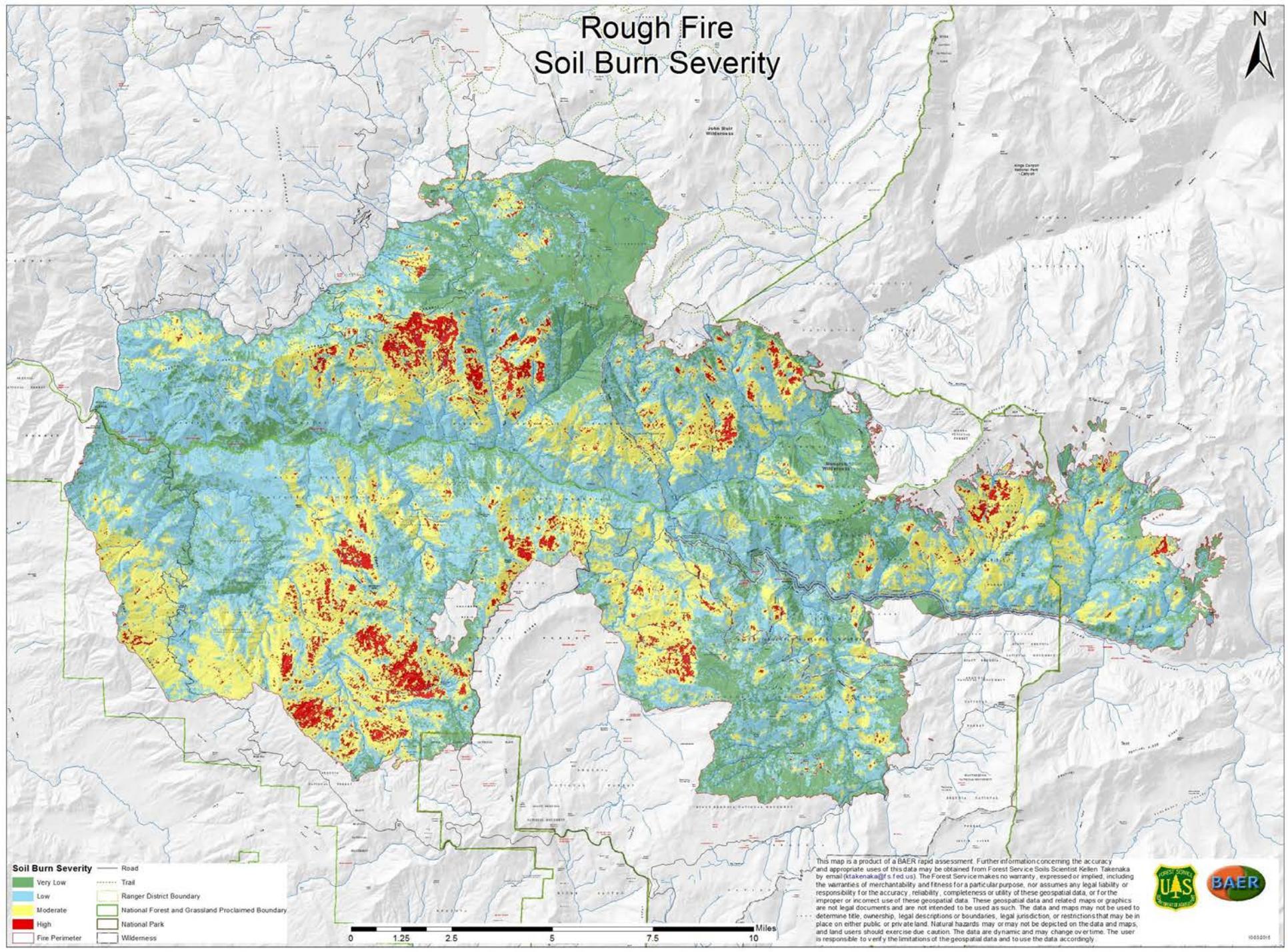


Area Elevation

Rough Fire Footprint 9/14

Elevation Band	Acres	% Below
1,000 – 2,000	8,100	5%
2,000 – 3,000	16,700	16%
3,000 – 4,000	21,000	30%
4,000 – 5,000	23,700	46%
5,000 – 6,000	24,000	62%
6,000 – 7,000	27,800	80%
7,000 – 8,000	17,300	92%
8,000 – 9,000	11,000	99%
9,000 – 10,000	1,500	100%

Rough Fire Soil Burn Severity

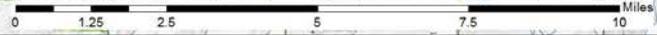


Soil Burn Severity

- Very Low
- Low
- Moderate
- High

Legend:

- Road
- Trail
- Ranger District Boundary
- National Forest and Grassland Proclaimed Boundary
- National Park
- Wilderness
- Fire Perimeter



This map is a product of a BAER rapid assessment. Further information concerning the accuracy and appropriate uses of this data may be obtained from Forest Service Soils Scientist Kellen Takenaka by email (ktakenak@fs.fed.us). The Forest Service makes no warranty, expressed or implied, including the warranties of merchantability and fitness for a particular purpose, nor assumes any legal liability or responsibility for the accuracy, reliability, completeness or utility of these geospatial data, or for the improper or incorrect use of these geospatial data. These geospatial data and related maps or graphics are not legal documents and are not intended to be used as such. The data and maps may not be used to determine title, ownership, legal descriptions or boundaries, legal jurisdiction, or restrictions that may be in place on either public or private land. Natural hazards may or may not be depicted on the data and maps, and land users should exercise due caution. The data are dynamic and may change over time. The user is responsible to verify the limitations of the geospatial data and to use the data accordingly.



Rough Fire Post Fire Hydrology

The instantaneous peak inflows for the Kings River Watershed at “Pour Point” to Pine Flat Reservoir for a design storm of 2 year return was calculated to be **1.11 times greater than pre-fire conditions.**

This is for the 1,000,000 acre watershed.

Rough Fire Sediment Transport Analysis

Storm Intensity	Pre-Fire Tons/Acre	Post Fire Tons/Acre	Volume Acre-Feet
2 yr – 6 hour	0.13	6.48	380
5 yr – 6 hour	0.48	19.46	1,120
10 yr – 6 hour	1.42	33.01	2,120



October 16, 2015 Thunderstorm near Grant Grove and Hume Lake.



October 16, 2015 Thunderstorm near Grant Grove and Hume Lake.

Precipitation Thresholds likely to trigger debris flows and flash flooding.

Rim Fire 11-13-2013

- ***0.2" in 15 minutes***
- ***0.3" in 30 minutes***
- ***0.5" in 1 hour***
- ***0.9" in 3 hours***
- ***1.4" in 6 hours***

Debris Flow

- USFS-Affects smaller side streams. Should not be an issue for main river.
- USFS – Major land slide not a concern. Geology not conducive.
- ACOE – Purchased Log Boom for upper portion of Pine Flat.

Concerns

- Effects on Hydrology
 - Peak Flows
 - Seasonal Volume
- Avalanche
- Debris Flows
- Sediment Loads
- Water Quality
 - Dissolved Oxygen
 - Turbidity

A group of approximately 15 firefighters, wearing yellow jackets and red helmets, are posed for a group photo in the foreground. They are standing on a rocky, dark terrain. In the background, a massive volcanic eruption is in progress, with a large, bright orange and red plume of smoke and ash rising into the night sky. The lava flow is visible as a bright, glowing line of fire on the slope of the volcano. The scene is illuminated by the intense light of the eruption, creating a dramatic and hazardous atmosphere. The word "Questions?" is overlaid in white text in the upper center of the image.

Questions?