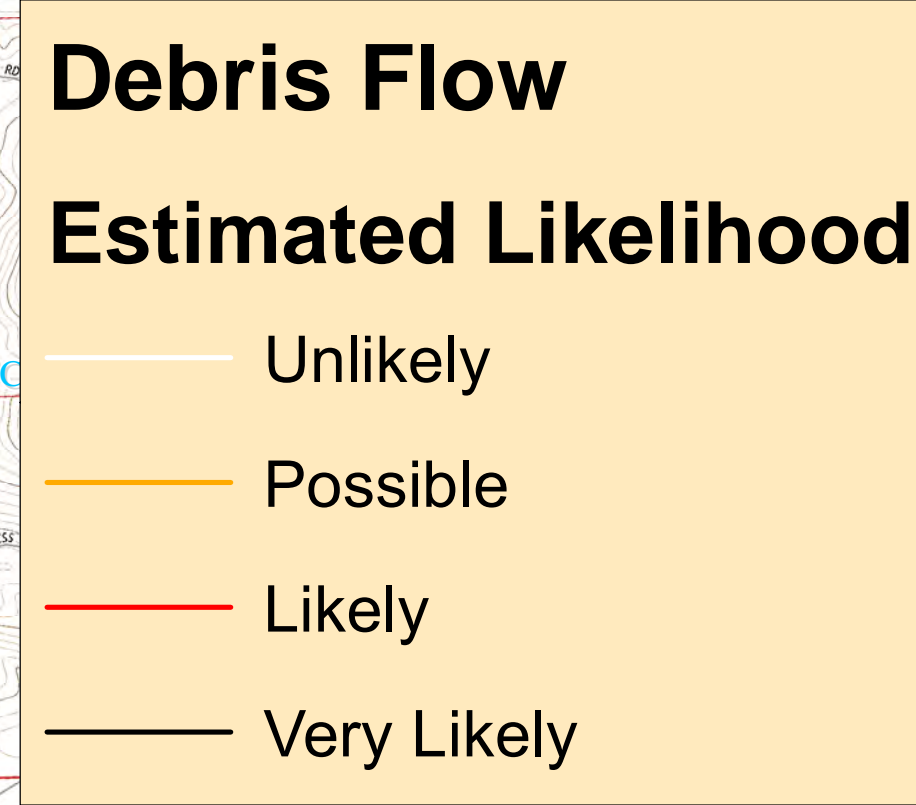
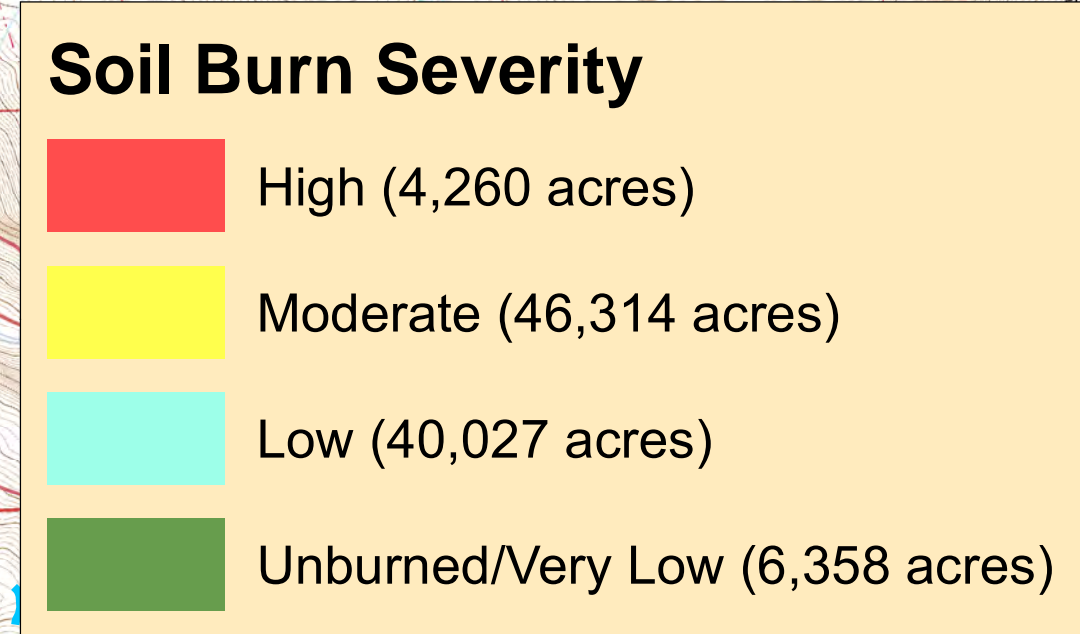


The Soil Burn Severity (SBS) map is derived from satellite imagery and modified by agency soil scientists following aerial reconnaissance and field verification. It is a rapid assessment that displays the distribution of soil burn severities. Consider the provisional nature of the information before using it for decisions that concern personal or public safety or the conduct of business that involves monetary or operation consequences. More information may be obtained from USDA Forest Service Soil scientists Curtis Kvamme (curtskvamme@fs.fed.us) or Sam Prentice (samueleprentice@fs.fed.us).

Soil Burn Severity Classes:
UNBURNED – Soil and ground cover are unaffected by fire.
LOW – Ground cover is reduced but largely intact; soil structure is unchanged.
MODERATE – Up to 80% of pre-fire ground cover may be consumed; near-surface soil structure changes may have occurred. Falling needles may help restore effective ground cover relatively quickly.
HIGH – Nearly all of pre-fire ground cover and canopy cover consumed; soil structure is less stable or destroyed. Bare soil is susceptible to erosion.



USGS debris flow data is based on a design storm with a peak 15-minute rainfall intensity of 24 mm/hr. A 15-minute peak intensity of 24 mm/hr. design storm was selected because it has a 1 year recurrence interval from National Oceanic and Atmospheric Administration (Atlas 14, Volume 6, Version 2). An estimated 12.5 mm/hr storm (15-minute peak intensity) occurred in the Merced River area after the Motor Fire in 2011. The 2011 storm generated debris flows along the 140 corridor.

Symbols: probability percentage are classified as BAER probability of occurrence. Probability includes: unlikely (0-9%), possible (10-50-49%), likely (50-89%), and very likely (>90%).



SOIL BURN SEVERITY - FINAL and DEBRIS FLOW PROBABILITY
Ferguson Fire BAER Assessment
August 2018

- Fire Perimeter
- HUC 12 Subwatershed Boundary
- Land Management Agency**
- Bureau of Land Management
- National Park Service
- Private
- Sierra National Forest
- Stanislaus National Forest
- Road**
- IMPROVED FOREST ROAD (OML-3-5)
- UNIMPROVED FOREST ROAD (OML-2)
- Closed Forest Road (OML-1)
- Non-Forest Road
- State Highway
- Trail-Designed Use**
- 4WD>50 - FOUR-WHEEL DRIVE VEHICLE >50"
- ATV - ALL TERRAIN VEHICLE
- MTRCYCL - MOTORCYCLE
- HIKE - HIKER/PEDESTRIAN; PACK - PACK AND SADDLE
- Campground
- Camping Area
- Picnic Site
- Camp Site
- Non-Forest Campground

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 Ferguson BAER Team members. 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.