



Soil Burn Severity

- High soil burn severity:** All or nearly all of the pre-fire ground cover and surface organic matter (litter, duff, and fine roots) is generally consumed, and charring may be visible on larger roots. Soil is often gray, orange, or reddish at the ground surface where large fuels were concentrated and consumed.
- Moderate soil burn severity:** Up to 80 percent of the pre-fire ground cover (litter and ground fuels) may be consumed but generally not all of it. There may be potential for recruitment of effective ground cover from scorched needles or leaves remaining in the canopy that will soon fall to the ground. Soil structure is generally unchanged.
- Low soil burn severity:** The ground surface, including any exposed mineral soil, may appear (lightly charred), and the canopy and understory vegetation will likely appear "green."
- Very Low or Unburned:** Little to no burn expected within these areas. Canopy and ground litter completely intact. Little to no vegetative mortality expected.

For additional information including photo examples of soil burn severity see the Field Guide for Mapping Post-Fire Soil Burn Severity at https://www.fs.fed.us/rm/pubs/nrms_gtr243.pdf

Soil Burn Severity Mapping – This is the Soil Burn Severity (SBS) for the East Troublesome Fire. SBS mapping was completed using Burned Area Reflectance Classification (BARC) maps that were produced using reflectance data obtained on 10/22/2020 and 11/02/2020. Snow cover in the 11/02/2020 BARC required interpolation from a third post-fire high resolution imagery dataset to estimate soil burn severity creating a high degree of uncertainty that may be updated when field conditions allow.

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BAER Burned Area Emergency Response

East Troublesome BAER

Soil Burn Severity; Imagery Date: 10/22/2020 & 11/02/2020
 Arapaho National Forest - Silphur Ranger District
 Routt National Forest - Parks Ranger District
 November 19, 2020

Soil Burn Severity <ul style="list-style-type: none"> Unburned or Very Low Low Moderate High 	<ul style="list-style-type: none"> Administrative Forest Boundary US Forest Service Lands Non Federal Lands Wilderness 	<ul style="list-style-type: none"> Rocky Mountain National Park Bureau of Land Management Other Federal State State, County, City, Areas 	<ul style="list-style-type: none"> US Highway State Highway Roads Open to Public County Road Hiking Trail 	<ul style="list-style-type: none"> Waterbody Stream / River 	Recreation Sites <ul style="list-style-type: none"> Boating Site Campground Fishing Site Group Campground Group Picnic Site Interpretive Site Picnic Site Trailhead Wildlife Viewing Site 	<p>1:48,000</p> <p><small>Coordinate System: NAD 1983 UTM Zone 13N Projection: Transverse Mercator Datum: North American 1983</small></p>
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