Burned Area Emergency Response with the US Forest Service

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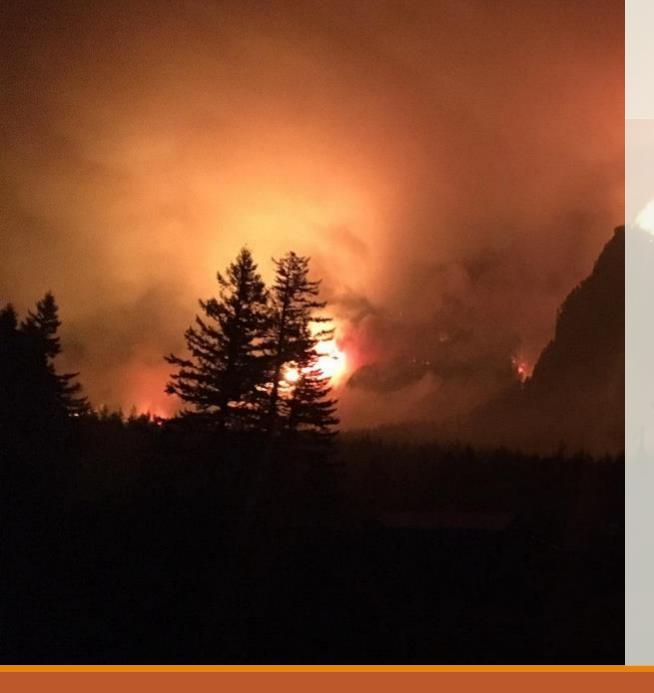


Three Phases of Post-Fire Actions

Suppression Repair

Burned Area Emergency Response (BAER)

Long-term restoration



What is **BAER**?

A program to identify imminent post-wildfire threats to human life and safety property natural or cultural resources on NFS lands and take immediate actions to manage unacceptable risks



What BAER is <u>not</u>

Fire suppression damage repair

Restoration of fire damages

Repair of post-fire flood damages

Long-term fire rehab & restoration

When does BAER happen?

Fires greater than 500 acres (FS)

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Critical values present

BAER Team in place as fire is winding down, typically expect to see the Unit BAER Coordinator or Team lead between 60-70% contained.



Assessment must be completed and funding requested submitted by 7 days after fire containment.

The BAER Process

Step 1. Identify critical values
Step 2. Assess for threats
Step 3. Evaluate risk
Step 4. Develop response strategy
Step 5. Implement the strategy







1. Identify critical values on National Forest Lands potentially affected by the burned area.

> Life and Safety Property Natural Resources Cultural Resources



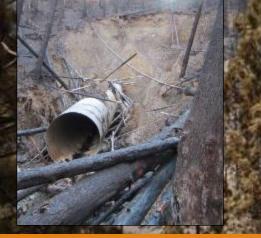
2. Assess for Threats and Evaluate Risk







Soil Burn Severity Geologic Hazards Erosion and Flooding Hazard Trees Non-native species



3. BAER Risk Assessment

Each BAER critical value and threat combination is evaluated for risk 1 – Magnitude of consequence 2 – Probability of damage or loss

Probability of	Magnitude of Consequences		
Damage or	Major (Life loss, substantial/ irreversible damage)	Moderate (Injury of life, long term resource effects)	Minor (no injury, recoverable loss)
Loss	RISK		
Very Likely (>90%)	Very High	Very High	Low
Likely (50-90%)	Very High	High	Low
Possible (10-50%)	High	Intermediate	Low
Unlikely (<10%)	Intermediate	Low	Very Low

4. Develop Response Strategy

- **1.Natural Recovery**
- 2.Closures/warnings
- **3.Treatments**
 - Proven effectiveness
 - Substantially reduce risk in first year
 - Minimal action
 - Cost is economically justified
 - Can be completed before damage is expected



Typical Treatments

Land

Mulching ED/RR (invasive plants) **Channel Check dams Road/Trail Drainage improvements Protection and Safety** Warning signs Hazard removal



Step 5. Implement

Timing is Critical!



Measures must be completed before the first damaging events and no later than one year from fire containment!

BAER Timelines

Assessment: **Typically 7-10 days** Authorization: RO/WO have 3 days to review and respond Implementation: ASAP and no longer than 1 year from containment Accomplishment reporting: Date found in authorization letter

What about risks to values outside of USFS responsibility?









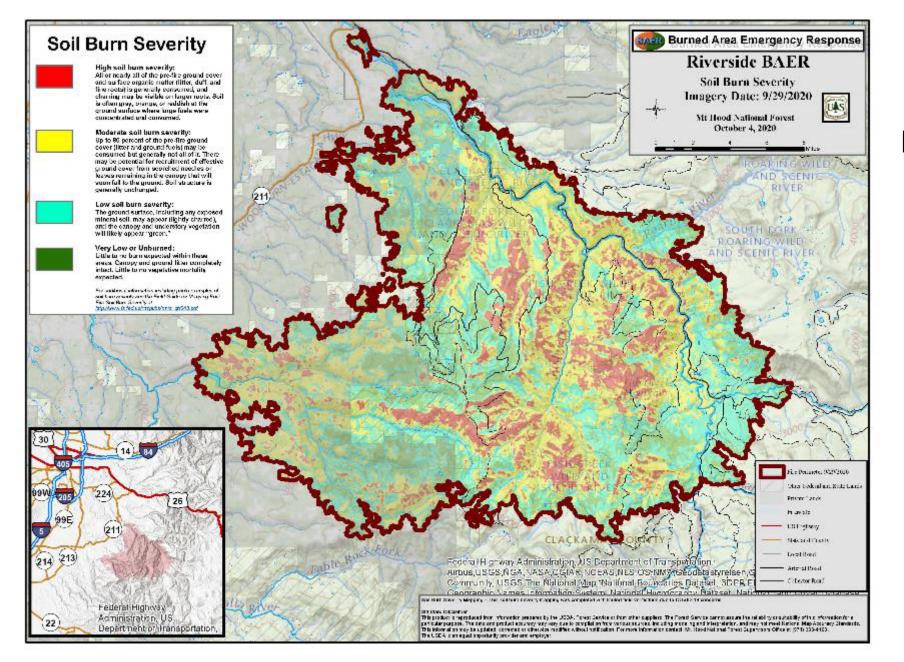






Soil Burn Severity Maps have been finalized 1st round of treatments have been proposed and approved Contracting is underway, implementation will begin ASAP

2020 Oregon Wildfires

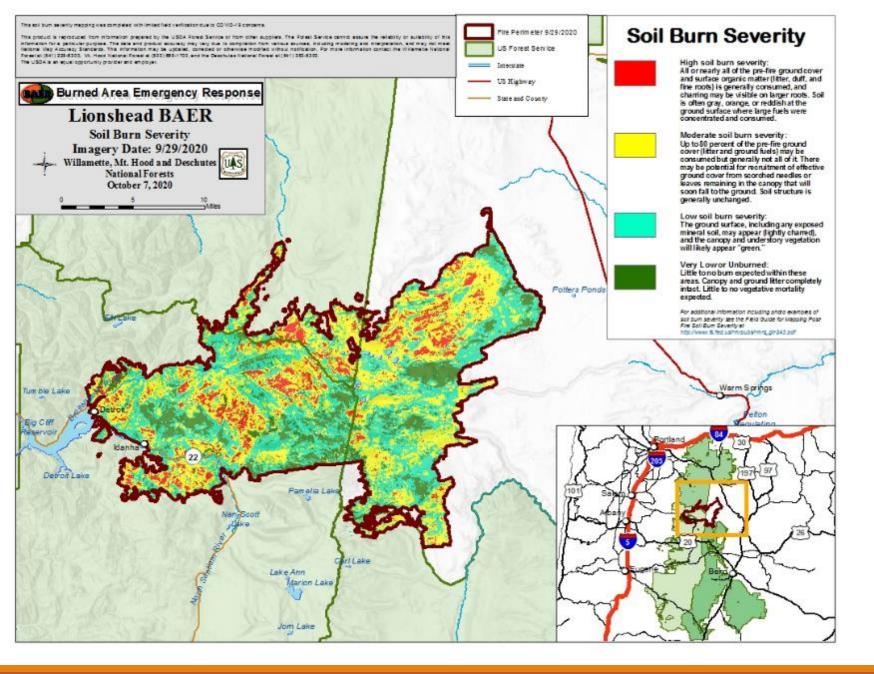


Riverside

Mt Hood National Forest 138,000 acres

NFS	62%
BLM	8%
State	1%
Private	29%

Unburned	13%
Low	35%
Moderate	40%
High	12%

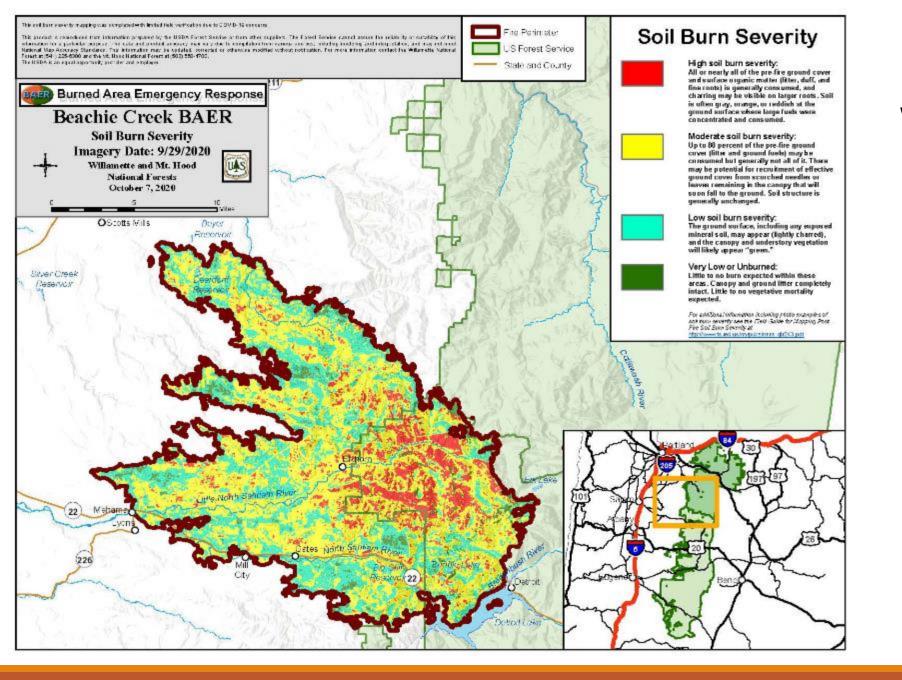


Lionshead

Willamette , Mt Hood, Deschutes National Forests 204,000 acres

NFS	51%
BIA	45%
State	<1%
Private	3%

Unburned14%Low38%Moderate39%High9%

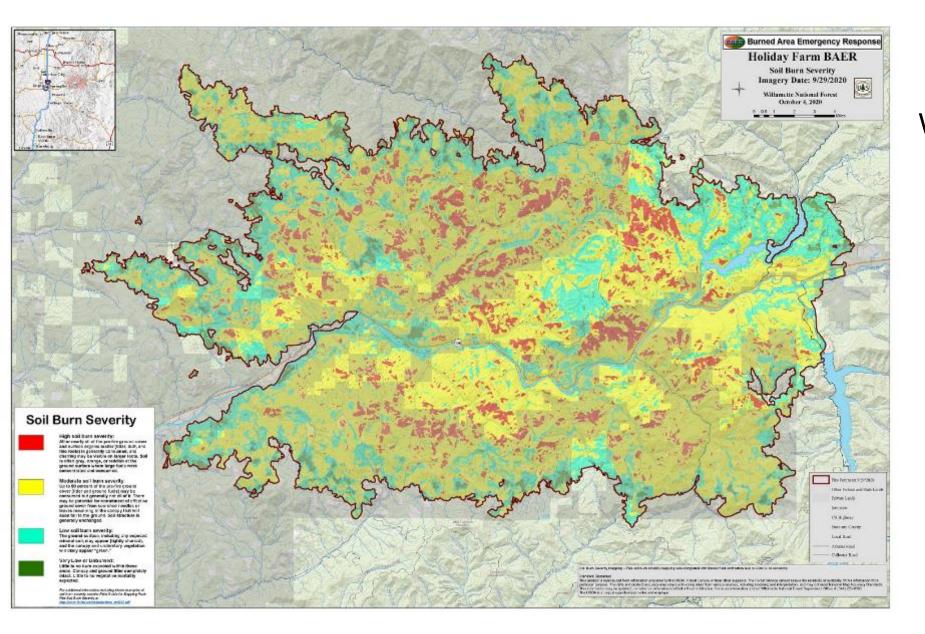


Beachie Creek

Willamette and Mt Hood National Forests 193,000 acres

NFS	26%
BLM	20%
State	12%
Private	41%

Unburned	4%
Low	33%
Moderate	52%
High	11%

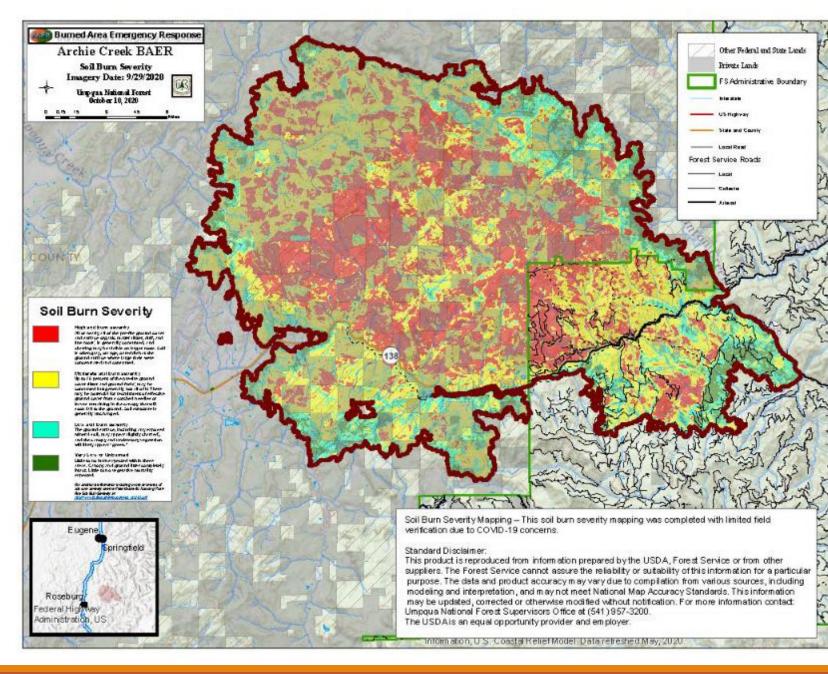


Holiday Farm

Willamette National Forest 173,000 acres

NFS	23%
BLM	12%
State	0%
Private	65%

Unburned	3%
Low	34%
Moderate	54%
High	8%

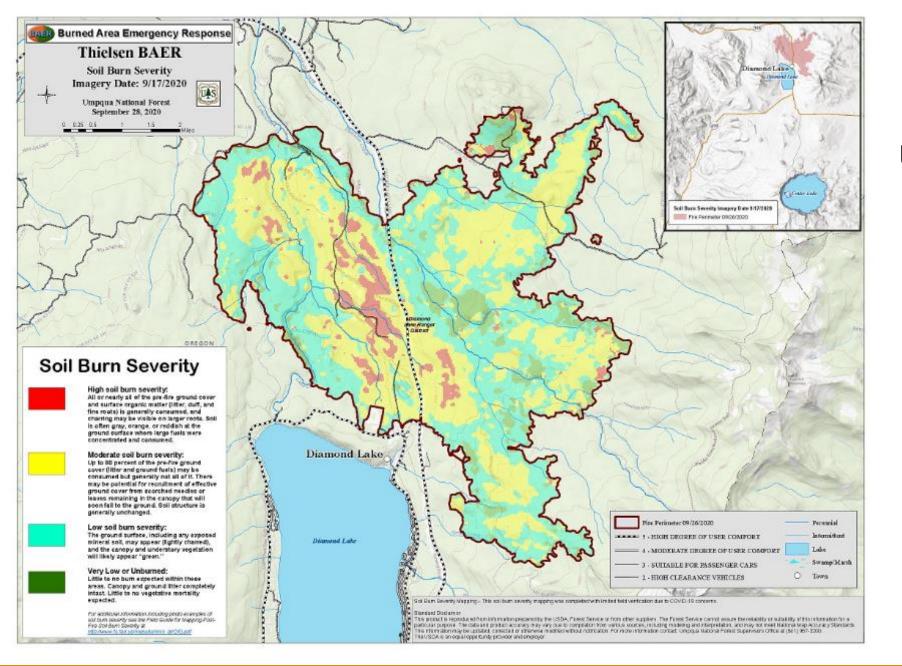


Archie Creek

Umpqua National Forest 132,000 acres

NFS	20%
BLM	31%
State	<1%
Private	49%

Unburned9%Low14%Moderate44%High33%

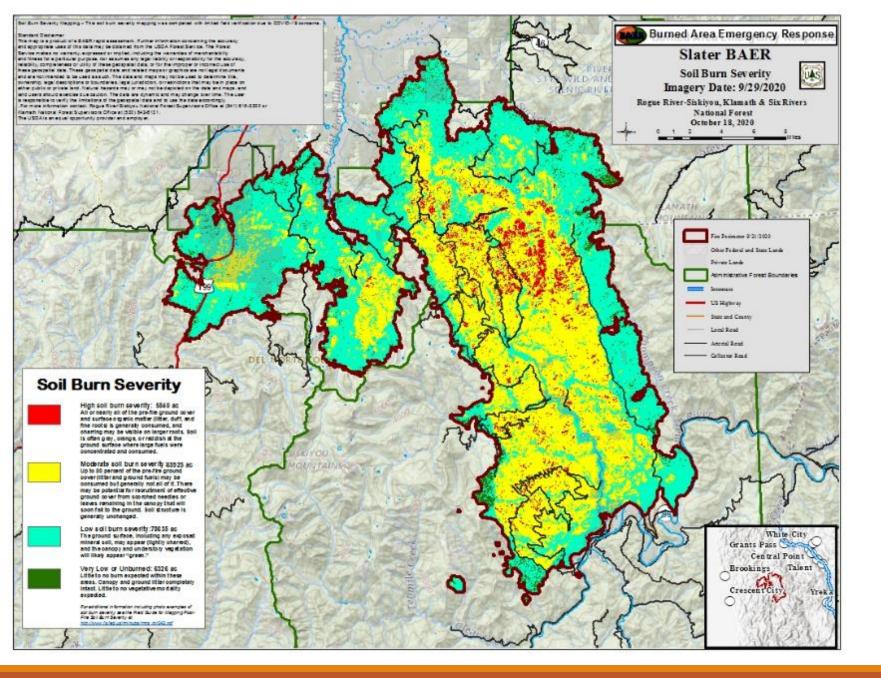


Thielsen

Umpqua National Forest 10,000 acres

NFS	100%
BLM	0%
State	0%
Private	0%

Unburned9%Low42%Moderate43%High5%



Slater

Rogue River Siskiyou National Forest 71,000 acres

NFS	83%
BLM	4%
State	0%
Private	13%

Unburned4%Low67%Moderate27%High2%