## **Eldorado National Forest**



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Burned Area Emergency Response (BAER)

### King Post-Fire BAER September-October 2014

### **Three Phases of Wildfire Rehab**

There are three phases of rehabilitation following wildfires on federal lands:

- Fire Suppression Repair
- Emergency Stabilization-Burned Area Emergency Response (BAER)
- Long-Term Recovery and Restoration



## What is **BAER**?

A program to identify <u>imminent</u> post-wildfire threats to human life and safety, property and critical natural or cultural resources on federal land and take immediate actions to <u>manage unacceptable risks</u>.



## What BAER is not:

- Fire suppression damage repair
- Repair of fire damages
- Long-term fire recovery



### **BAER Assessment Team**

BAER teams are staffed by specially trained professionals who rapidly assess the burned area and prescribe emergency stabilization treatments:

- Hydrologists
- Soil scientists
- Engineers
- Geologists
- Biologists (wildlife/aquatic)
- Botanists
- Archeologists
- Geographic Information Specialists (GIS)
- Rec & Trails Specialists



# Agency/Stakeholder Coordination

BAER assessment and implementation are often cooperative efforts with federal, state and local agencies – especially important in urban interface situations:

- Natural Resources Conservation Service (NRCS)
- El Dorado County
- U.S. Fish and Wildlife Service
- State Water Quality Control Boards
- National Weather Service (NWS)
- United States Geological Service (USGS)



# Why is BAER Necessary?

Manage Unacceptable Post-Fire Risks to Human Life or Safety

"...because the whole Priest Grade area was burned this summer...the danger level of storm and rescue work intensified."

> Moccasin Fire BLM, Tuolumne Co., CA



The Union Democrat





# Why is BAER Necessary?

### Manage Unacceptable Post-Fire Risks to Property

- Roads/Trails
- Structures
- Facilities



### **Rubicon River**





### **Road Drainage**



### **Mosaic Burn**



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### **King Fire Soil Burn Severity**

**Unburned/Very Low:** 22,404 acres (23%)

Low: 30,527 acres (31%)

Moderate: 22,699 acres (23%)

High: 22,087 (23%)

**Total Acres Burned: 97,717** 



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### **Propsed Land Treatments**

- Apply aerial mulching (woodshred and/or agricultural straw) on upland slopes above to reduce potential soil erosion/sediment yield and runoff flows onto moderate to steep slopes directly above critical infrastructure and natural resources
- Implement early detection and rapid response (EDRR) treatment to prevent the spread of noxious weeds into native plant communities and apply an herbicide treatment where needed
- Install log erosion barriers along contour of 50-60% slopes



#### **Propsed Channel Treatments**

• Remove large woody debris from dry and running creeks, stream, bridge crossings



- Clean-out culvert inlet basins, roadside ditches, roadside berms, cut-bank sloughs
- Install riprap at culvert/lead-off outlets
- Install "Falling Rock" and "Warning Debris Flow" signs
- Install road closure gates
- Install, and/or replace inlets, lids, rolling dips, culverts, tees, risers, grates, trash racks, K-rails
- Plan and implement storm patrol, inspection and response

### Emergency Stabilization Actions Proposed Protection/Safety Treatments

- Install warning signs and gates along Forest Service trails, road intersections and recreation areas and close roads in key locations to protect the traveling public during potential flood events, or from the danger of hazard trees and rocks falling from burned slopes
- Remove hazard trees along roads and trails, and within the recreation sites



### Proposed Protection/Safety Treatments (cont'd)

- Remove hazardous trees and rocks/soil from roads within the fire area
- Road and trail closures before and after predicted rain events
- Continue burn area access closures for safety and protection measures



### **Monitoring**

• Monitor emergency stabilization treatment effectiveness

