

# Coffee Complex Fire



*Upper South Fork Little Lick Creek*

## **Burned Area Emergency Response (BAER) Team Initial Request for Funding**

**Shasta-Trinity National Forest  
Trinity River Management Unit  
Weaverville, California**

**August 25, 2014**

Date of Report: 08/25/2014

**BURNED-AREA REPORT**  
(Reference FSH 2509.13)

**PART I - TYPE OF REQUEST**

**A. Type of Report**

- 1. Funding request for estimated emergency stabilization funds
- 2. Accomplishment Report
- 3. No Treatment Recommendation

**B. Type of Action**

- 1. Initial Request (Best estimate of funds needed to complete eligible stabilization measures)
- 2. Interim Report #\_\_\_\_.
  - Updating the initial funding request based on more accurate site data or design analysis
  - Status of accomplishments to date
- 3. Final Report (Following completion of work)

**PART II - BURNED-AREA DESCRIPTION**

- A. Fire Name: Coffee Complex
- B. Fire Number: CA-SHF-002584
- C. State: California
- D. County: Trinity
- E. Region: 05
- F. Forest: SHF
- G. District: Trinity River Management Unit
- H. Fire Incident Job Code: P5H98M (0514)
- I. Date Fire Started: 8/2/2014
- J. Date Fire Contained: 8/16/2014
- K. Suppression Cost: \$ 8.2 million
- L. Fire Suppression Damages Repaired with Suppression Funds
  - 1. Fireline waterbarred (miles): 3.5 miles
  - 2. Fireline seeded (miles): 0
  - 3. Other (identify): XXXX
- M. Watershed Number: Two HUC6 watersheds are found within the fire perimeter. The North Fork Coffee Creek watershed (180102110202) is in the western half of the fire perimeter and the Lower Coffee Creek watershed (180102110203) is on the eastern half. Four HUC7 watersheds are within the fire perimeter:

|                |                                    |
|----------------|------------------------------------|
| 18010211020202 | Granite Creek                      |
| 18010211020301 | East Fork Coffee Creek             |
| 18010211020303 | Sugar Pine Creek-Coffee Creek      |
| 18010211020203 | Lick Creek-North Fork Coffee Creek |

**N. Total Acres Burned:**

[ 6,240] NFS Acres [ ] Other Federal [ ] State [18] Private

**O. Vegetation Types:**

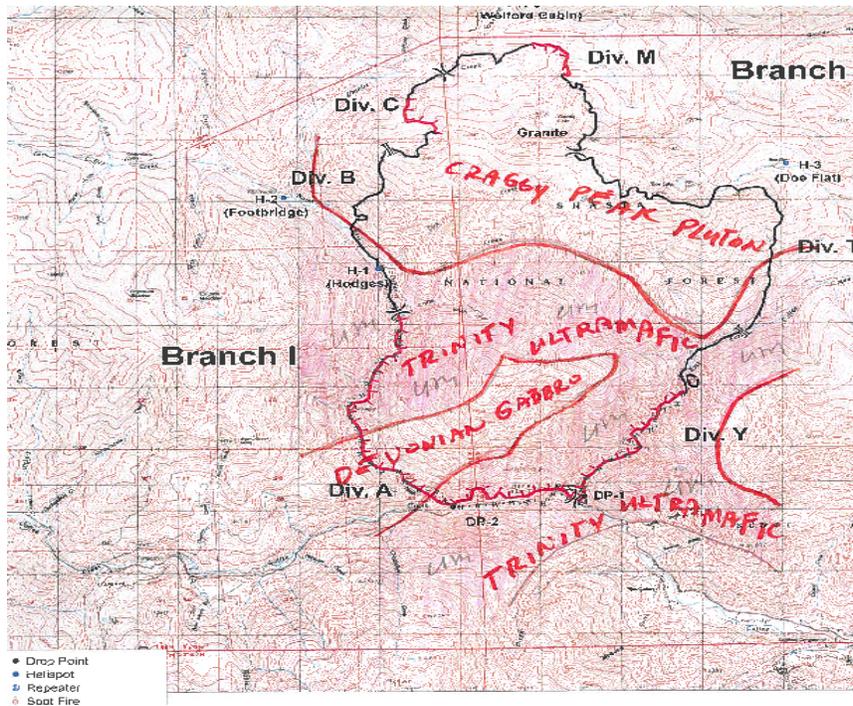
Elevations range from about 3,200 to 7,200 feet above sea level. On the southern half of the fire the vegetation is primarily mixed conifer with montane shrublands and true fir (red fir or white fir) in the upper third of slopes. The northern half of the fire is higher in elevation than the southern half and is dominated by true fir forests transitioning to montane shrublands and subalpine conifer forests on the upper third of slopes. Some minor acreage of riparian, wet meadow and grassland communities are distributed throughout the fire, but are mostly in the northern half.

| Vegetation Cover                           | Acres | %  |
|--------------------------------------------|-------|----|
| Conifer forest/Woodland                    | 4800  | 77 |
| Shrub                                      | 1306  | 21 |
| Mixed conifer and hardwood forest/woodland | 59    | 1  |
| Herbaceous                                 | 58    | 1  |
| Hardwood forest/Woodland                   | 2     | 0  |
| Barren (Rock/Soil/Sand/Snow)               | 1     | 0  |

**P. Dominant Soils:** Dominate soils are Jayar, Lithic Haploxeralfs, Lithic Xerumbrepts, and Toadlake. These soils make up 54% of the burned area. Common textures are sandy loams, loams, and loamy sands, with 15 to 40% rock fragments in the surface soils. The hydrologic soil group ratings are mostly B and D which have a moderately low (B) to high (D) runoff potential. Soil depths range from shallow to moderately deep on the upper half of the slopes, to moderately deep to deep on the lower midslopes and lower slopes.

| Dominate Soils within Burn Perimeter |       |             |           |                     |       |                    |             |
|--------------------------------------|-------|-------------|-----------|---------------------|-------|--------------------|-------------|
| Soil                                 | Acres | Hydro group | % of Burn | Texture             | Depth | Slope location     | Rock frag % |
| Jayar Family                         | 423   | B           | 6.77      | gravelly sandy loam | MD    | mid-toe, drainages | 40          |
| Lithic Haploxeralfs                  | 395   | C           | 6.32      | v. gravelly loam    | S     | mid-toe, drainages | 20-35       |
| Lithic Xerumbrepts                   | 595   | D           | 9.51      | cobbly sandy loam   | S     | upper-mid          | 30-40       |
| Neuns Family                         | 595   | B           | 9.53      | gravelly sandy loam | MD    | mid-foot           | 35-45       |





**R. Miles of Stream Channels by Order or Class:**

Within the fire perimeter there are 11.6 miles of perennial stream, 9.7 miles of ephemeral stream, and 1.8 miles of intermittent stream.

**S. Transportation System**

Trails: 14.8 miles

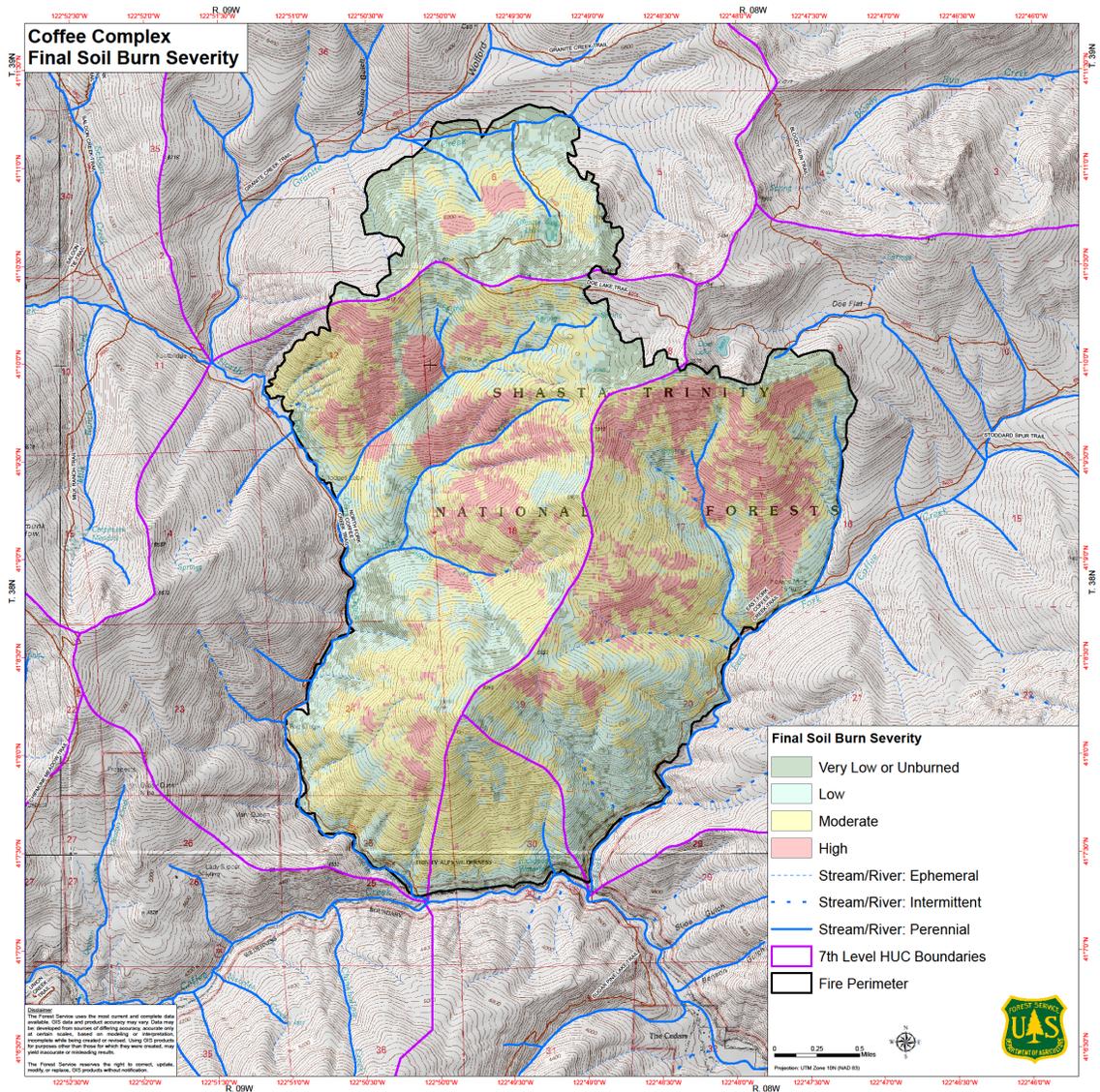
FS Roads: 0 miles

County Roads: 1.0 miles

**PART III - WATERSHED CONDITION**

**A. Burn Severity (acres)**

| Soil Burn Severity Acres Within Fire Perimeter |              |             |
|------------------------------------------------|--------------|-------------|
| Severity                                       | Acres        | Percentage  |
| Very Low or Unburned                           | 780          | 12%         |
| Low                                            | 1727         | 28%         |
| Moderate                                       | 2605         | 42%         |
| High                                           | 1136         | 18%         |
| <b>Total</b>                                   | <b>6,250</b> | <b>100%</b> |



**B. Water-Repellent Soil (acres): 1,800**

Water repellency is present primarily in the moderate and high soil burn severity classes, and is estimated at approx. 1,800 acres. This condition was common across vegetation types, aspects and soil types, although soils that formed in granitic parent material appeared to be most common. Occurrence was common in soils mapped as moderate and high soil burn severity (SBS), with strong hydrophobic characteristics. It was also found from the bottom of the surface-charred layer (generally 1-2 inches deep) in the low to moderate SBS severity classes, but weak to moderate. In the high SBS, depth to strong hydrophobic conditions ranged from 4 to 8 inches. Repellency will be largely responsible for moderate soil burn severity expected to have a watershed runoff response similar to high. Repellency also occurred naturally in unburned areas, usually beginning at about 2 inch depth and 1-2 inches thick, but repellency was greatly exacerbated by the fire in the loamy sands, sandy loams and loamy textured soils. The 0.5 inch of estimated rain that occurred over the fire resulted in extensive rills on the upper 1/3 of slopes

mapped as high and moderate SBS on soils formed in granitic parent materials. Depth of rilling was consistently at 3-4 inches.

**C. Soil Erosion Hazard Rating (acres): High (42%=2,650); Moderate (55%=3,650 ac); Low (3%=3,437 ac)**

**D. Erosion Potential: XXX tons/acre**

| Coffee ERMiT                     |             |              |         | 2-yr event |      | 5-yr event |      | 10-yr event |      |                       |
|----------------------------------|-------------|--------------|---------|------------|------|------------|------|-------------|------|-----------------------|
| 6 <sup>th</sup> Field Watersheds | Total Acres | Acres Burned | %Burned | Tons/ac    | Tons | Tons/ac    | Tons | Tons/ac     | Tons | Debris Flow Potential |
| Lower Coffee Cr                  |             |              |         |            |      |            |      |             |      |                       |
| Sugar Pine                       |             |              |         |            |      |            |      |             |      |                       |
| E Fk                             |             |              |         |            |      |            |      |             |      |                       |
| North Fk Coffee Cr               |             |              |         |            |      |            |      |             |      |                       |
| Granite Cr                       |             |              |         |            |      |            |      |             |      |                       |
| Lick Cr                          |             |              |         |            |      |            |      |             |      |                       |
| <b>Total Fire</b>                |             |              |         |            |      |            |      |             |      |                       |

**E. Sediment Potential: XXX cubic yards / square mile**

ERMiT estimates and accounts for hillslope re-deposition with sediment production numbers are delivery to the bottom of the hillslope. Many modeled hillslopes in this fire have streams at the base of the slope and sediment is deposited into ephemeral and intermittent streams. Therefore it is roughly estimated that 60% of sediment estimates above would be delivered to the fluvial system.

**PART IV - HYDROLOGIC DESIGN FACTORS**

| <b>Soil Burn Severity Acres within Impacted 7th Level HUCS</b>                                     |                      |                     |                                                                        |
|----------------------------------------------------------------------------------------------------|----------------------|---------------------|------------------------------------------------------------------------|
| <b>HUC</b>                                                                                         | <b>Severity</b>      | <b>Acres Within</b> | <b>Percentage of Total HUC<br/>(Not just portion within Perimeter)</b> |
| <b>Granite Creek</b><br><b>18010211020202</b><br>(Total HUC is 4705.69 Acres)                      | Very Low or Unburned | 305                 | 6%                                                                     |
|                                                                                                    | Low                  | 252                 | 5%                                                                     |
|                                                                                                    | Moderate             | 144                 | 3%                                                                     |
|                                                                                                    | High                 | 38                  | 1%                                                                     |
|                                                                                                    | <b>Total</b>         | <b>738</b>          | <b>16%</b>                                                             |
| <b>Lick Creek-North Fork Coffee Creek</b><br><b>18010211020203</b><br>(Total HUC is 5044.56 Acres) | Very Low or Unburned | 320                 | 6%                                                                     |
|                                                                                                    | Low                  | 695                 | 14%                                                                    |
|                                                                                                    | Moderate             | 1362                | 27%                                                                    |
|                                                                                                    | High                 | 545                 | 11%                                                                    |
|                                                                                                    | <b>Total</b>         | <b>2922</b>         | <b>58%</b>                                                             |
| <b>East Fork Coffee Creek</b><br><b>18010211020301</b><br>(Total HUC is 7143.14 Acres)             | Very Low or Unburned | 120                 | 2%                                                                     |
|                                                                                                    | Low                  | 661                 | 9%                                                                     |
|                                                                                                    | Moderate             | 840                 | 12%                                                                    |
|                                                                                                    | High                 | 551                 | 8%                                                                     |
|                                                                                                    | <b>Total</b>         | <b>2172</b>         | <b>30%</b>                                                             |
| <b>Sugar Pine Creek-Coffee Creek</b><br><b>18010211020303</b><br>(Total HUC is 6426.81 Acres)      | Very Low or Unburned | 17                  | 0%                                                                     |
|                                                                                                    | Low                  | 111                 | 2%                                                                     |
|                                                                                                    | Moderate             | 260                 | 4%                                                                     |
|                                                                                                    | High                 | 2                   | 0%                                                                     |
|                                                                                                    | <b>Total</b>         | <b>391</b>          | <b>6%</b>                                                              |

- A. Estimated Vegetative Recovery Period, (years):** 10 years
- B. Design Chance of Success, (percent):** 80%
- C. Equivalent Design Recurrence Interval, (years):** 2
- D. Design Storm Duration, (hours):** 6
- E. Design Storm Magnitude, (inches):** 2.19
- F. Design Flow, (cubic feet / second/ square mile):** 47.7
- G. Estimated Reduction in Infiltration, (percent):** 15
- H. Adjusted Design Flow, (cfs per square mile):** 59.1

**PART V - SUMMARY OF ANALYSIS**

**A. Describe Critical Values/Resources and Threats:**

Background - The Coffee Complex Fire burned approximately 6,258 acres (18 acres private) of forest in Trinity County, California from August 2<sup>nd</sup> to August 16, 2014. The fire perimeter encompasses 13,361 acres of varying burn severity. The cause of the fire was multiple lightning strikes from one storm event. These small fires spread, eventually becoming one large fire by early August. The fire burned over the Lower Coffee Creek and North Fork Coffee Creek 6<sup>th</sup> field sub- watersheds that drain into the mainstem of Coffee Creek, in the upper reaches of the Trinity River and the Trinity Reservoir. Elevations range from 3,200 to 7,200 feet. On August 4, 0.65 inches of rain fell throughout the fire perimeter at a rate of 1/3 inch per hour.

The fire resulted in 40 percent very low and low, 42 percent moderate and 18 percent high soil burn severity. Values at-risk include public safety on affected trails, one county road segment, natural resources including native plant communities in wilderness, and cultural resources.

It is very important to understand the difference between *fire intensity* or *burn severity* as discussed by fire behavior, fuels, or vegetation specialists, and *soil burn severity* as defined for watershed condition evaluation in BAER analyses. Fire intensity or burn severity as defined by fire, fuels, or vegetation specialists may consider such parameters as flame height, rate of spread, fuel loading, thermal potential, canopy consumption, tree mortality, etc. BAER analysis is not simply mapping vegetation mortality or above-ground effects of the fire. Soil burn severity considers additional surface and below-ground factors that relate to soil hydrologic function, runoff and erosion potential, and vegetative recovery.

The following is a brief summary of the values within and along the fire area as well as the threats to those values.

**Values at Risk:**

The risk matrix below, Exhibit 2 of Interim Directive No.: **2520-2010-1**, was used to evaluate the Risk Level for each value identified during Assessment:

| Probability of Damage or Loss | Magnitude of Consequences |                     |                 |
|-------------------------------|---------------------------|---------------------|-----------------|
|                               | Major                     | Moderate            | Minor           |
|                               | <b>RISK</b>               |                     |                 |
| Very Likely                   | <b>Very High</b>          | <b>Very High</b>    | <b>Low</b>      |
| Likely                        | <b>Very High</b>          | <b>High</b>         | <b>Low</b>      |
| Possible                      | <b>High</b>               | <b>Intermediate</b> | <b>Low</b>      |
| Unlikely                      | <b>Intermediate</b>       | <b>Low</b>          | <b>Very Low</b> |

**Values At Risk Matrix Table**

| <b>Coffee Complex BAER Risk Matrix</b> |                                              |                                                             |                              |                                 |              |                                                         |
|----------------------------------------|----------------------------------------------|-------------------------------------------------------------|------------------------------|---------------------------------|--------------|---------------------------------------------------------|
| <b>Risk Type</b>                       | <b>Value at Risk</b>                         | <b>Potential Threats</b>                                    | <b>Probability of Damage</b> | <b>Magnitude of Consequence</b> | <b>Risk</b>  | <b>Treatment</b>                                        |
| Infrastructure                         | Coffee Creek County Road 104 culverts        | Culvert plugging, damaged from falling rock                 | Possible                     | Minor                           | Low          | None at this time                                       |
| Infrastructure                         | Two (2) Coffee Creek County Road 104 bridges | Buildup of debris on upstream, storm water capacity reduced | Unlikely                     | Major                           | Intermediate | Manage debris                                           |
| Infrastructure                         | North Fork Trail 9W02 trail bridge           | Buildup of debris on upstream, storm water capacity reduced | Unlikely                     | Moderate                        | Low          | None at this time. Monitor when trail is open to public |
| Infrastructure                         | North Fork Trail 9W02 trail tread damage     | Burned stump holes, trail erosion                           | Possible                     | Minor                           | Low          | None at this time. Re-evaluate in Spring.               |
| Infrastructure                         | North Fork Trail 9W02 stream crossings       | Buildup of debris on upstream, storm water capacity reduced | Unlikely                     | Minor                           | Low          | None at this time. Re-evaluate in Spring.               |
| Infrastructure                         | East Fork Trail 6W06 trail tread damage      | Burned stump holes, trail eroding                           | Very Likely                  | Moderate                        | High         | Use CCC to repair damages                               |
| Infrastructure                         | East Fork Trail 6W06 trail stream crossings  | Debris deposition, stream altered                           | Very Likely                  | Moderate                        | High         | Use CCC to harden drainages/repair damages              |
| Infrastructure                         | Doe Lake Trail 8W05 trail tread damage       | Burned stump holes, trail erosion                           | Possible                     | Minor                           | Low          | None at this time. Re-evaluate in Spring.               |
| Infrastructure                         | Doe Lake Trail 8W05 trail stream crossings   | Debris deposition, stream altered                           | Possible                     | Minor                           | Low          | None at this time. Re-evaluate in Spring.               |

| Coffee Complex BAER Risk Matrix |                                                                      |                                                |                       |                          |              |                       |
|---------------------------------|----------------------------------------------------------------------|------------------------------------------------|-----------------------|--------------------------|--------------|-----------------------|
| Risk Type                       | Value at Risk                                                        | Potential Threats                              | Probability of Damage | Magnitude of Consequence | Risk         | Treatment             |
| Infrastructure                  | Private residences along Coffee Creek near floodplains, low terraces | flooding, debris pilings                       | Unlikely              | Major                    | Intermediate | None at this time     |
| Infrastructure                  | Access bridges to private residences, property across Coffee Creek   | Loss of access across creek                    | Unlikely              | Major                    | Intermediate | None at this time     |
| Infrastructure                  | Public Safety-hazard trees, rockfall along trails                    | damage to life, property, blocking road        | Very Likely           | Minor                    | Low          | Public Safety signage |
| Infrastructure                  | Trinity Reservoir - excess sediment                                  | Increased sediment into the reservoir          | Unlikely              | Minor                    | Very Low     | Manage debris         |
| Natural Resources               | T&E Fish Species                                                     | Increased sediment loads in habitat            | Unlikely              | Minor                    | Very Low     | None                  |
| Natural Resources               | Sensitive Fish Species                                               | Increased sediment loads in habitat            | Unlikely              | Minor                    | Very Low     | None                  |
| Natural Resources               | T&E Amphibians Species                                               | Loss of habitat                                | Unlikely              | Minor                    | Very Low     | None                  |
| Natural Resources               | Sensitive Amphibians Species                                         | Loss of habitat                                | Unlikely              | Minor                    | Very Low     | None                  |
| Infrastructure                  | Private Residences                                                   | Reduced water quality                          | Unlikely              | Minor                    | Very Low     | None at this time     |
| Natural Resources               | Water Quality Coffee Creek mainstem                                  | Reduced water quality for downstream residents | Unlikely              | Minor                    | Very Low     | None at this time     |
| Natural Resources               | Sediment into North Trinity River and Reservoir                      | Reduced water quality                          | Unlikely              | Minor                    | Very Low     | None at this time     |

| Coffee Complex BAER Risk Matrix |                              |                                                |                       |                          |          |                                                                                                                                                                                            |
|---------------------------------|------------------------------|------------------------------------------------|-----------------------|--------------------------|----------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Risk Type                       | Value at Risk                | Potential Threats                              | Probability of Damage | Magnitude of Consequence | Risk     | Treatment                                                                                                                                                                                  |
| Cultural Resources              | Historic Arch Sites          | Erosion                                        | Unlikely              | Minor                    | Very Low | None at this time                                                                                                                                                                          |
| Cultural Resources              | Hodges Cabin                 | Erosion/ hazard tree                           | Unlikely              | Minor                    | Very Low | Monitor channel alterations of North Fork and Lick Creek caused by debris flows or landslides. Assess the proximity of the channels to the site and the potential for impacts to the site. |
| Cultural Resources              | Holland Mine                 | Erosion                                        | Possible              | Minor                    | Low      | None at this time                                                                                                                                                                          |
| Natural Resources               | Habitat                      | Loss of habitat                                | Unlikely              | Minor                    | Very Low | None                                                                                                                                                                                       |
| Natural Resources               | T&E Wildlife Species         | Loss of habitat                                | Unlikely              | Minor                    | Very Low | None                                                                                                                                                                                       |
| Natural Resources               | Sensitive Wildlife Species   | Loss of habitat                                | Unlikely              | Minor                    | Very Low | None                                                                                                                                                                                       |
| Natural Resources               | Management Indicator Species | Loss of habitat                                | Unlikely              | Minor                    | Very Low | None                                                                                                                                                                                       |
| Natural Resources               | Loss of Soil Productivity    | Erosion, organic matter consumed, eroded       | Very likely           | Minor                    | Low      | Natural recovery                                                                                                                                                                           |
| Natural Resources               | Debris Flow Potential        | blocking road/trail, reduced soil productivity | Very likely           | Minor                    | Low      |                                                                                                                                                                                            |
| Natural Resources               | Rockfall Potential           | Blocking road/trail                            | Very likely           | Minor                    | Low      |                                                                                                                                                                                            |
| Natural Resources               | T&E Botany Species           | Loss of habitat due to Invasive competition    | Unlikely              | Minor                    | Very Low | None                                                                                                                                                                                       |
| Natural                         | Sensitive                    | Loss of habitat                                | Unlikely              | Minor                    | Very Low | Monitoring                                                                                                                                                                                 |

| Coffee Complex BAER Risk Matrix |                |                                             |                       |                          |      |                                              |
|---------------------------------|----------------|---------------------------------------------|-----------------------|--------------------------|------|----------------------------------------------|
| Risk Type                       | Value at Risk  | Potential Threats                           | Probability of Damage | Magnitude of Consequence | Risk | Treatment                                    |
| Resources                       | Plants         | due to Invasive competition                 |                       |                          |      | current population locations                 |
| Natural Resources               | Invasive Weeds | Loss of habitat due to Invasive competition | Likely                | Moderate                 | High | Detection monitoring and treatment as needed |

**B. Emergency Treatment Objectives (narrative):** The primary objective of this Burned Area Emergency Response Report is to recommend prompt actions deemed reasonable and necessary to effectively protect, reduce or minimize significant threats to human life and property and prevent unacceptable degradation of natural resources. The application of these BAER treatments would minimize on-site and downstream damages to the identified values at risk. The emergency treatments being recommended by the Coffee Complex Fire BAER Team are specifically designed to achieve the following results.

Proposed Treatments

The objectives of the treatments are to:

1. Protect human life and safety by raising awareness through posting hazard warning and and communicate hazard of flooding, debris flow, hazard trees, rock fall and potential increases in dust containing natural occurring asbestos created from increased activity in the area to the public.
2. Protect human life and safety by addressing areas with existing/potential trail collapse due to burned out roots and logs beneath tread, hardening and drainage work at hazardous stream crossings on East Fork Coffee Creek trail that has been damaged and trail stream crossings that pose safety hazards to hikers and stock.
3. Protect ecological value of biological diversity by monitoring and treating as necessary, sites where introduction of noxious weeds may have occurred in previously uninvaded sites.
4. Protect cultural resources by monitoring channel alterations of the North Fork Creek and Lick Creek that are in close proximity to Hodges cabin that may have been or will be exposed due to loss of vegetation or erosion associated with the fire. Monitor for hazardous trees that may have been damaged by the fire.

**C. Probability of Completing Treatment Prior to Damaging Storm or Event:**

**Land 90% Channel --% Roads/Trails 85% Protection/Safety 90%**

**D. Probability of Treatment Success**

|                          | Years after Treatment |     |     |
|--------------------------|-----------------------|-----|-----|
|                          | 1                     | 3   | 5   |
| <b>Land</b>              | 80                    | 90  | 90  |
| <b>Channel</b>           | N/A                   | N/A | N/A |
| <b>Roads/Trails</b>      | 80                    | 90  | 95  |
| <b>Protection/Safety</b> | 90                    | 90  | 90  |

**E. Cost of No-Action (Including Loss):** XXX

**F. Cost of Selected Alternative (Including Loss):** XXX

**G. Skills Represented on Burned-Area Survey Team:**

- Hydrology     Soils         Geology         Range
- Forestry        Wildlife       Fire Mgmt.     Engineering
- Contracting    Ecology       Botany         Archaeology
- Fisheries       Research     Landscape Arch  GIS

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**H. Treatment Narrative:**

**Land Treatments:**  
**Noxious Weed/Invasive Plant Detection Surveys.**

Treatments to mitigate the noxious weed emergency include an initial detection survey, combined with treatment at time of discovery, if possible. Surveys will begin in 2015 at times when the target species are the most visible. Because of differences in flowering times for all potential species, two visits may be required during the growing season. Completion of surveys in roads, hand lines, drop points, helispots, wilderness trailheads and trails, staging areas, and safety zones will be the first priority.

All locations of noxious weeds discovered will be mapped and entered into the National Resource Inventory System (NRIS) according to National protocol. Treatment will be recorded as directed by the same National protocols. Treatment will consist of hand pulling to root depth and if seed is present, plants will be bagged and disposed of properly.

**Cost Summary**

|                                                    | <b>Units</b> | <b>Unit Cost</b> | <b># of Units</b> | <b>BAER \$</b>  |
|----------------------------------------------------|--------------|------------------|-------------------|-----------------|
| <b>Land Treatments</b>                             |              |                  |                   |                 |
| Seeding & Mulching Dozer Line - Road Intersections | acres        | 0                | 0                 | 0               |
| <b>Monitoring</b>                                  |              |                  |                   |                 |
| Noxious Weed Detection Surveys & treatment         | miles        | 1200             | 18                | \$21,600        |
| <b>TOTAL COST ESTIMATE</b>                         |              |                  |                   | <b>\$21,600</b> |

**Cultural Resource Treatments.**

Treatment objectives to mitigate the Cultural Resources emergency include monitoring channel alterations of the North Fork Creek and Lick Creek that are in close proximity to Hodges cabin that may have been or will be exposed due to loss of vegetation or erosion associated with the fire. Monitor for hazardous trees that may have been damaged by the fire that could cause potential damage to the cabin.

| <b>Estimated Cost</b>        |                  |                   |              |
|------------------------------|------------------|-------------------|--------------|
| <b>Item</b>                  | <b>Unit cost</b> | <b># of units</b> | <b>Cost</b>  |
| GS 9 Archaeologist           |                  | 1                 |              |
| GS7 Archaeologist Technician |                  | 1                 |              |
| <b>Total Cost</b>            |                  |                   | <b>\$500</b> |

**Protection/Safety Treatments.**

Treatment objectives to mitigate Protection/Safety emergency include placing warning signs at the trailheads to inform hikers of the increased hazards of falling rocks and trees and increases in dust particles that may contain natural occurring asbestos along the trails and trailheads.

| <b>Item Description</b>             | <b>Cost</b>  |
|-------------------------------------|--------------|
| Warning signs and mounting/hardware | \$500        |
| <b>Total Cost</b>                   | <b>\$500</b> |

**Trails Treatments.**

Approximately 1 mile of trail work is proposed along East Fork Coffee Creek Trail, which includes clearing and hardening 3 water crossings and clearing the trail of erosion related debris. A trail log out is necessary along 2.5 miles of trail in order to access treatment areas.

| <b>Work Description</b>            | <b>Crew</b>          | <b>Estimated Cost \$</b> |
|------------------------------------|----------------------|--------------------------|
| Clearing trail/hardening waterbars | Backcountry CCC crew | 10,000                   |
| Trail log out                      | Backcountry CCC crew | 5,000                    |
| <b>Total</b>                       |                      | <b>15,000</b>            |

**I. Monitoring Narrative:**

**(Describe the monitoring needs, what treatments will be monitored, how they will be monitored, and when monitoring will occur. A detailed monitoring plan must be submitted as a separate document to the Regional BAER coordinator.)**

Noxious weed surveys will be conducted during the growing season of the invasive plant species the following year in 2015. Findings will be recorded into the NRIS database.

Archaeologists will visit Hodges cabin and the Holland mine site to determine potential threats to the sites in the form of erosion and hazard trees. Visits to the sites will take place in spring of 2015 before the trail is reopened for the public.

Trails will be monitored for debris and erosion in the spring of 2015 before the trails are open to the public and after the winter snow has begun to thaw.

**Part VI – Emergency Stabilization Treatments and Source of Funds** **Interim #**

| Line Items                               | Units   | Unit Cost | NFS Lands  |          |            | Other \$ | Other Lands |            |            | All Total \$ |
|------------------------------------------|---------|-----------|------------|----------|------------|----------|-------------|------------|------------|--------------|
|                                          |         |           | # of Units | BAER \$  | # of units |          | Fed \$      | # of Units | Non Fed \$ |              |
|                                          |         |           |            |          |            |          |             |            |            |              |
| <b>A. Land Treatments</b>                |         |           |            |          |            |          |             |            |            |              |
| Noxious weed survey                      | miles   | 1200      | 18         | \$21,600 | \$0        | \$0      |             | \$0        | \$0        | \$21,600     |
| Cultural Site Survey                     | GS9/GS7 |           | 2          | \$500    | \$0        | \$0      |             | \$0        | \$0        | \$500        |
|                                          |         |           |            | \$0      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
| <i>Insert new items above this line!</i> |         |           |            | \$0      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
| <b>Subtotal Land Treatments</b>          |         |           |            | \$22,100 | \$0        | \$0      |             | \$0        | \$0        | \$22,100     |
| <b>B. Channel Treatments</b>             |         |           |            |          |            |          |             |            |            |              |
|                                          |         |           |            | \$0      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
|                                          |         |           |            | \$0      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
|                                          |         |           |            | \$0      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
| <i>Insert new items above this line!</i> |         |           |            | \$0      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
| <b>Subtotal Channel Treat.</b>           |         |           |            | \$0      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
| <b>C. Road and Trails</b>                |         |           |            |          |            |          |             |            |            |              |
| Clearing trail                           |         |           |            | \$10,000 | \$0        | \$0      |             | \$0        | \$0        | \$10,000     |
| Log out trail                            |         |           |            | \$5,000  | \$0        | \$0      |             | \$0        | \$0        | \$5,000      |
|                                          |         |           |            | \$0      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
| <i>Insert new items above this line!</i> |         |           |            | \$0      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
| <b>Subtotal Road &amp; Trails</b>        |         |           |            | \$15,000 | \$0        | \$0      |             | \$0        | \$0        | \$15,000     |
| <b>D. Protection/Safety</b>              |         |           |            |          |            |          |             |            |            |              |
| Hazard safety signs                      |         |           |            | \$500    | \$0        | \$0      |             | \$0        | \$0        | \$500        |
|                                          |         |           |            | \$0      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
|                                          |         |           |            | \$0      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
| <i>Insert new items above this line!</i> |         |           |            | \$0      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
| <b>Subtotal Structures</b>               |         |           |            | \$500    | \$0        | \$0      |             | \$0        | \$0        | \$500        |
| <b>E. BAER Evaluation</b>                |         |           |            |          |            |          |             |            |            |              |
|                                          |         |           |            | ---      |            | \$0      |             | \$0        | \$0        | \$0          |
| <i>Insert new items above this line!</i> |         |           |            | ---      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
| <b>Subtotal Evaluation</b>               |         |           |            | ---      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
| <b>F. Monitoring</b>                     |         |           |            |          |            |          |             |            |            |              |
| Noxious weed survey                      |         |           |            | \$0      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
| Cultural Site Survey                     |         |           |            |          |            |          |             |            |            |              |
| <i>Insert new items above this line!</i> |         |           |            | \$0      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
| <b>Subtotal Monitoring</b>               |         |           |            | \$0      | \$0        | \$0      |             | \$0        | \$0        | \$0          |
| <b>G. Totals</b>                         |         |           |            |          |            |          |             |            |            |              |
|                                          |         |           |            | \$37,600 | \$0        | \$0      |             | \$0        | \$0        | \$37,600     |
| Previously approved                      |         |           |            |          |            |          |             |            |            |              |

**PART VII - APPROVALS**

1. \_\_\_\_\_  
Forest Supervisor (signature) \_\_\_\_\_  
Date
  
2. \_\_\_\_\_  
Regional Forester (signature) \_\_\_\_\_  
Date

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**Appendix A: Coffee Complex Fire BAER Team:**

| NAME            | UNIT                 | FUNCTION                                          | CELL PHONE                    |
|-----------------|----------------------|---------------------------------------------------|-------------------------------|
| Scott Hagerty   | Six Rivers NF        | Team Leader, Soils                                | 360-379-1558                  |
| Lois Shoemaker  | Shasta-Trinity NF    | Lead READ, Fire Ecologist, Vegetation, Recreation | 541-281-1471;<br>530-226-2365 |
| Ashley Knight   | Shasta-Trinity NF    | Soils Trainee                                     | 209-535-6955                  |
| Vincent Pacific | Eldorado NF          | Hydrologist Trainee                               | 406-579-9775                  |
| Zachary Mondry  | ACT2 Enterprise Unit | Hydrologist                                       | 530-440-6344                  |
| Justin Krieg    | Shasta-Trinity NF    | West Zone Engineer                                | 530-623-1726                  |
| Pete Schmidt    | Shasta-Trinity NF    | Archaeology                                       | 530-242-5533                  |
| Lusetta Nelson  | Shasta-Trinity NF    | Botany/Invasives                                  | 530-623-1750                  |
| Chris Packer    | Contract GIS         | GIS Support                                       | 530-226-2312;<br>818-421-1710 |
| Juan delaFuente | Klamath NF           | Geology                                           | 530-841-4413                  |
| Ryan Mikulovsky | Mendocino NF         | Geologist Support                                 | 530-934-1188                  |
| Dennis Veich    | Shasta-Trinity NF    | Geologist Support                                 | 530-226-2423                  |