

Date of Report: 7/10/08

BURNED-AREA REPORT
(Reference FSH 2509.13)

PART I - TYPE OF REQUEST

I. Type of Report (abbreviated version due to no treatment recommendation per Brent Roath, R5 BAER coordinator)

☐ 1. Funding request for estimated WFSU-SULT funds

☐ 2. Accomplishment Report

☒ 3. No Treatment Recommendation

I. Type of Action

☐ 1. Initial Request (Best estimate of funds needed to complete eligible rehabilitation 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: Mill/Antelope (Mill Complex)

B. Fire Number: P5-D80L

C. State: CA

D. County: Tehama

E. Region: 5

F. Forest: Lassen

G. District: Almanor

H. Date Fire Started: 6/21/08

I. Date Fire Contained: 7/4/08

J. Suppression Cost: N/A

K. Fire Suppression Damages Repaired with Suppression Funds

1. Fireline waterbarred (miles): N/A

2. Fireline seeded (miles): N/A

3. Other (identify): N/A

L. Watershed Number: N/A

M. Total Acres Burned: Displayed as Mill/Antelope here and in Part III.

NFS Acres (4,726/2,051) Other Federal (0/0) State (6,144/1,362) Private (2,629/0)

N. Vegetation Types: Annual grass with some perennial grass, oak shrub land with digger pine; limited mixed conifers in favored locations.

O. Dominant Soils: Guenoc stony loam, Toomes very rocky loam (from NRCS web soil survey).

P. Geologic Types: Volcanic flows: volcanic rocks, predominately andesite.

Q. Miles of Stream Channels by Order or Class:

R. Transportation System Trails: N/A miles Roads: N/A miles

PART III - WATERSHED CONDITION

A. Burn Severity (all acres): (unburned) 1,188/242 (low) 11,417/2,612 (moderate) 887/548 (high) 7/11
(NFS acres): (unburned) 375/128 (low) 3,932/1,495 (moderate) 416/417 (high) 3/11

B. Water-Repellent Soil (acres): equal to high severity acres above

C. Soil Erosion Hazard Rating (acres): N/A (low) N/A (moderate) N/A (high)

D. Erosion Potential: 2.04 tons/acre

E. Sediment Potential: 20 cubic yards / square mile

PART IV - HYDROLOGIC DESIGN FACTORS

A. Estimated Vegetative Recovery Period, (years):	2
B. Design Chance of Success, (percent):	N/A
C. Equivalent Design Recurrence Interval, (years):	25
D. Design Storm Duration, (hours):	1
E. Design Storm Magnitude, (inches):	1.1
F. Design Flow, (cubic feet / second/ square mile):	118
G. Estimated Reduction in Infiltration, (percent):	20
I. Adjusted Design Flow, (cfs per square mile):	149

PART V - SUMMARY OF ANALYSIS

A. Describe Watershed Emergency:

Potential values at risk were identified through a brainstorming exercise with ranger district staff. A complete list is included in the first column in the table below. The second column briefly summaries the disposition of each potential value at risk based on results of the assessment.

From this brainstorm list, the team and district staff determined the predominant **potential** values at risk are 1) anadromous fish due to possible increases in sediment delivery to streams, 2) vegetation diversity due to possible expansion of known populations of invasive plants, 3) heritage resources due to possible vandalism and 4) watershed condition due to possible increases in uncontrolled OHV use.

Based upon the burn severity map, field work, and soil erosion and hydrologic response modeling of pre- and post-fire conditions, the team determined no watershed emergency exists, and thus, none of the **potential** values at risk are truly threatened. The team shared this determination with ranger district staff and consensus was reached that no treatments are necessary nor is post-fire monitoring desired.

Potential Value At Risk	Disposition After Assessment
High transmission power line (off-Forest in Mill Fire)	The District should notify the power company to examine the burn area under the towers.
Heritage resource sites	Flood, erosion, and sedimentation impacts are unlikely. Increased risk of looting and vandalism is also unlikely due to the amount of low and moderate burn severity.
Pape's Place private land and cabin	No apparent issues.
Black Rock Ranch private land in Mill Fire	No apparent issues.
Payne's Place Trailhead and Campground in Antelope Fire	No apparent issues.
Antelope Creek Road historic rock inlets on culverts	The District should notify the State to consider pre-storm maintenance of existing road drainage culverts. The outlet of at least one ephemeral drainage culvert was found to be plugged. The recommendation should also include storm patrol after storm events.
Jeep trail along wilderness boundary in Mill Fire	No apparent issues.
Hog's Back Road in Antelope Fire	No apparent issues.
High Trestle Road	No apparent issues.
Sensitive plant along jeep trail in Mill Fire	No apparent BAER issues but there may be an issue with suppression dozer line construction.
Sensitive specie western pond turtle in Finley Lake in Antelope Fire	No apparent issues.
Sensitive specie foothill yellow-legged frog	No apparent issues.
Salmon and steelhead fisheries; spring and winter run in Mill, Deer, and Butte Creeks; all three are significant spring run habitats.	No apparent issues due to majority of burn in low severity. Flood, erosion, and sedimentation impacts are unlikely.
Mill, Deer, and Butte Creeks are proposed Wild & Scenic Rivers	No apparent issues.
Fish barrier on Antelope Creek	No apparent issues.
Allotment fences	Recommend replacement of burned fences, but not a BAER issue.
Noxious and invasive weeds	No apparent issues due to majority of burn in low severity.
Uncontrolled OHV use and need for signing	No apparent issues due to steep and rocky ground conditions

B. Emergency Treatment Objectives: The threat to **potential** values at risk does not exist for several reasons. Most of the fire area on national forest is unburned and low burn severity (91% and 79% for the Mill and Antelope Fires, respectively) and practically none is high severity (0.1% and 1% for the Mill and Antelope Fires, respectively). Thus, inconsequential increases in erosion, sedimentation and streamflow are expected. This implies minimal or no risk to the anadromous fishery, as well as most other values listed in the table.

The lack of significant amounts of moderate and high burn severity suggests rapid vegetative recovery will occur, which should minimize the spread of known populations of invasive plants. This implies minimal risk to vegetation diversity.

The expected vegetative recovery should allow for adequate re-growth of cover to hide heritage resources that may have been exposed by the fire. This implies minimal risk to this resource.

Because much of the fire perimeter is unburned to lightly burned and much of the fire interior is on relatively steep slopes that are extremely rocky, it is doubtful OHV users will venture into the burn. This implies minimal risk to watershed condition.

C. Probability of Completing Treatment Prior to First Major Damage-Producing Storm: N/A

Land ___ % Channel ___ % Roads ___ % Other ___ %

D. Probability of Treatment Success N/A

Years after Treatment			
	1	3	5
Land			
Channel			
Roads			
Other			

E. Cost of No-Action (Including Loss): N/A

F. Cost of Selected Alternative (Including Loss): N/A

I. 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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I. **Treatment Narrative:** N/A

Land Treatments:

Channel Treatments:

Roads and Trail Treatments:

Structures:

I. **Monitoring Narrative:**

No monitoring is needed.

Part VI – Emergency Rehabilitation Treatments and Source of Funds by Land Ownership

A. Land Treatments										
				\$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
<i>Subtotal Land Treatments</i>				\$0	\$0		\$0		\$0	\$0
B. Channel Treatments										
				\$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
<i>Subtotal Channel Treat.</i>				\$0	\$0		\$0		\$0	\$0
C. Road and Trails										
				\$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
<i>Subtotal Road & Trails</i>				\$0	\$0		\$0		\$0	\$0
D. Structures										
				\$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
<i>Subtotal Structures</i>				\$0	\$0		\$0		\$0	\$0
E. BAER Evaluation										
Team estimate				\$12,600	\$0		\$0		\$0	\$12,600
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Evaluation</i>				\$12,600	\$0		\$0		\$0	\$12,600
F. Monitoring										
None				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Monitoring</i>				\$0	\$0		\$0		\$0	\$0
G. Totals				\$12,600	\$0		\$0		\$0	\$12,600

Forest Coordinator or Team Leader (signature)

Signature /s/ Greg Bevenger

Date 7/10/08