USDA-FOREST SERVICE FS-2500-8 (7/00)

Date of Report: 7/13/08

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
[X] 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: Onion (part of Cub Complex)

B. Fire Number: CA-LNF-002713

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: part of Cub Complex which is not yet contained.

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: Onion Fire portion of Cub Complex only; Cub Fire to assessed later.
NFS Acres (2,575) Other Federal (0) State (0) Private (2,276)

N. Vegetation Types: Mixed conifer: ponderosa pine, sugar pine, Douglas-fir, incense cedar and some scattered black oak

O. Dominant Soils: Cohasset stony loam, Iron Mountain rocky sandy loam, Lyonsville gravelly sandy loam. (Soil info from NRCS – Web Soil Survey)

P. Geologic Types: Igneous: weathered volcanic rocks, andesite, and basalt.

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) 706 (low) 2,833 (moderate) 1,202 (high) 110
(NFS acres): (unburned) 381 (low) 1,589 (moderate) 574 (high) 31

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: 4.68 tons/acre

E. Sediment Potential: 2,000 cubic yards / square mile

PART IV - HYDROLOGIC DESIGN FACTORS

A. Estimated Vegetative Recovery Period, (years):	3
B. Design Chance of Success, (percent):	N/A
C. Equivalent Design Recurrence Interval, (years):	10
D. Design Storm Duration, (hours):	6
E. Design Storm Magnitude, (inches):	4
F. Design Flow, (cubic feet / second/ square mile):	219
G. Estimated Reduction in Infiltration, (percent):	12
I. Adjusted Design Flow, (cfs per square mile):	272

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 and 2) vegetation diversity due to possible expansion of known populations of invasive plants.

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 concensus was reached that no treatments, other than detection monitoring for spread of yellow star thistle are necessary nor is post-fire monitoring desired.

Potential Value At Risk	Disposition After Assessment
Heritage resource sites	No apparent issues
Sensitive specie foothill yellow-legged frog downstream of fire	No apparent issues.
Anadromous fishery below Deer Creek Falls; spring run Chinooks; steelhead; holding and spawning habitat	No apparent issues due to majority of burn in low severity. Flood, erosion, and sedimentation impacts are unlikely.
Resident fishery above Deer Creek Falls; rainbows	No apparent issues due to majority of burn in low severity. Flood, erosion, and sedimentation impacts are unlikely.
Agricultural diversions downstream of National Forest	No apparent issues.
Transportation system; Collins Pine Company, National Forest, CalTrans Highway 32	No apparent issues due to majority of burn in low severity. Flood, erosion, and sedimentation impacts are unlikely, but District should contact CalTrans relative to possible storm patrols on Highway 32.
Noxious and invasive weeds	Conduct detection surveys for spread of known populations of yellow star thistle along Highway 32.
Developed and undeveloped recreation facilities along highway 32	No apparent issues.

B. Emergency Treatment Objectives: The threat to **potential** values at risk does not exist for several reasons. Most of the fire area is unburned and low burn severity (77%) and practically none is high severity (2%). 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. However, the burn area does contain known populations of yellow star thistle so there is a desire to conduct detection surveys to determine if the population is expanding due to the fire.

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:

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

Team Leader: Greg Bevenger

Email: gbevenger@fs.fed.us Phone: 307.578.5163 FAX: 307.578.5212

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

Land Treatments:

Only Yellow star thistle *(Centaurea solstitialis)* has been identified within the burn area. There are scattered populations along Highway 32 from Alder Creek Campground southwest to the Forest Boundary, with the largest concentration at the helispot between Deer Creek Falls and Potato Patch Campground. Approximately $2,300 is needed for the detection surveys. The funds will be used to survey hand and dozer lines constructed off the highway and any staging areas on Forest Service lands.

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

			NFS Lands				Other Lands			All
		Unit	# of	WFSU	Other	# of	Fed	# of	Non Fed	Total
Line Items	Units	Cost	Units	SULT $	$	units	$	Units	$	$
A. Land Treatments										
Weed detection	1	2300	1	$2,300	$0		$0		$0	$2,300
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Land Treatments				$2,300	$0		$0		$0	$2,300
B. Channel Treatments										
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Channel Treat.				$0	$0		$0		$0	$0
C. Road and Trails										
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Road & Trails				$0	$0		$0		$0	$0
D. Structures										
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Structures				$0	$0		$0		$0	$0
E. BAER Evaluation										
Team estimate				$18,100	$0		$0		$0	$18,100
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Evaluation				$18,100	$0		$0		$0	$18,100
F. Monitoring										
None				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Monitoring				$0	$0		$0		$0	$0
G. Totals				**$20,400**	**$0**		**$0**		**$0**	**$20,400**

Forest Coordinator or Team Leader (signature)

Signature */s/ Greg Bevenger* Date 7/13/08