

Date of Report: 8/15/2008

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: Mad Complex B. Fire Number: CA-SRF-001120
C. State: California D. County: Trinity
E. Region: Pacific Southwest (R5) F. Forest: Six Rivers
G. District: Mad River H. Fire Incident Job Code: P5D8MY
I. Date Fire Started: June 20, 2008 J. Date Fire Contained: July 18, 2008
K. Suppression Cost: \$1,800,000
L. Fire Suppression Damages Repaired with Suppression Funds
 1. Fireline waterbarred (miles): 2.5
 2. Fireline seeded (miles): 0 miles
 3. Other (identify):
M. Watershed Number: 1801010201 Upper Mad River, 1801010502 North Fork Eel River
N. Total Acres Burned: 3344
 NFS Acres(3104) Other Federal (0) State (0) Private (240)
O. Vegetation Types: Early and mid-mature Doug Fir, oakwoodland, grasslands, and shrub fields
P. Dominant Soils: Clallam-Deadwood family, very gravelly loam
Q. Geologic Types: Sedimentary and metasedimentary rocks, unstable terrane

R. Miles of Stream Channels by Order or Class: _	Order	Miles
	1	22.9
	2	3.5
	3	4.7
	4	0.0
	5	0.0

S. Transportation System

Trails: 1.6 miles Roads: 7 miles

PART III - WATERSHED CONDITION To be completed in interim request.

- A. Burn Severity (acres): 3344 (very low/unburned) 2655 (low) 486 (moderate) 203 (high)
- B. Water-Repellent Soil (acres): none
- C. Soil Erosion Hazard Rating (acres):
2320 (low) 773 (moderate) 251 (high)
- D. Erosion Potential: 216 tons/acre
- E. Sediment Potential: 60,104 cubic yards / square mile

PART IV - HYDROLOGIC DESIGN FACTORS To be completed in interim request.

- A. Estimated Vegetative Recovery Period, (years): 5
- B. Design Chance of Success, (percent): 95
- C. Equivalent Design Recurrence Interval, (years): 25
- D. Design Storm Duration, (hours): 24
- E. Design Storm Magnitude, (inches): 8
- F. Design Flow, (cubic feet / second/ square mile): 34.25
- G. Estimated Reduction in Infiltration, (percent): 0
- H. Adjusted Design Flow, (cfs per square mile): 34.25

PART V - SUMMARY OF ANALYSIS

- A. Describe Critical Values/Resources and Threats:
- B. The Mad Complex was started by numerous lightning strikes on June 20, 2008 and contained on July 18, 2008, although interior islands therein continue to burn. All fires were within the Mad River Ranger District of Six Rivers National Forest. The Mad Complex includes the following fires: Rabbit, Van Duzen 2, Mad, Crooks, Reiss, Lassic, Black, Pollard, Hollie, Salt, Round Mountain, Lookout, Long, Hayman, Bettles, Nielson, Dutch, Fuels, Travis, Bonanza, Van Horn, North, Raglan Flat, Swim, Hayden, Jones, Horse, Spring, Trout, Waterspout, and Lost Creek. Most fires were small and many were less than one acre. Large fires were the Lassic (21 acres), Neilson (100 acres), Swim (210 acres), Van Horn (66 acres), Lost Creek (50 acres), Travis (1700 acres), Bonanza (1300 acres), and Waterspout

(137 acres). An initial assessment of emergency restoration needs has determined that soil stabilization/hillside erosion treatments, channel treatments, and roads and trail treatments are not needed on these or any of the fires within the Mad Complex. However, an initial assessment of the potential for spread of invasive weeds has found that access routes and equipment staging areas used during wildfire suppression for the Travis, Bonanza and Swim fires were found to be infested with yellow star-thistle and represent the greatest threat to watershed values. The possible introduction and spread of invasive weeds into the burned area may put native plant communities at risk, especially with regards to the Bonanza and Swim fires. Although county access roads and equipment staging areas have known infestations of yellow star-thistle the Van Horn Peak and Swim Ridge areas immediately adjacent to the Bonanza and Swim fires were relatively free of the weed except for one occurrence at the intersection of FS road 29N30 and 27N32 within 100 meters of one of the catlines built on the Bonanza Fire. The Travis Fire, on the other hand, burned over two large grasslands representing over 50% of the area burned. These grasslands are heavily infested with yellow star-thistle. Approximately 20% of the yellow star-thistle dominated grassland within the fire perimeter is in private ownership. Hence, it is unlikely that treatments performed under BAER are going to be effective in limiting the spread of yellow star-thistle on public lands within the Travis Fire which was dominated by the weed prior to the fire.

B. Emergency Treatment Objectives:

The objective of noxious weed detection assessment is to use early detection and hand removal to prevent the introduction and spread of yellow star-thistle into the interior of the Bonanza and Swim fires within the Mad Complex.

C. Probability of Completing Treatment Prior to Damaging Storm or Event: To be completed in interim request.

Land NA % Channel NA % Roads/Trails NA % Protection/Safety NA %

D. Probability of Treatment Success

	Years after Treatment		
	1	3	5
Land	NA	90	
Channel	NA	NA	
Roads/Trails	NA	NA	
Protection/Safety	NA	NA	

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

F. Cost of Selected Alternative (Including Loss):

G. Skills Represented on Burned-Area Survey Team:

<input checked="" type="checkbox"/> Hydrology	<input checked="" type="checkbox"/> Soils	<input type="checkbox"/> Geology	<input checked="" type="checkbox"/> Range	<input type="checkbox"/>
<input type="checkbox"/> Forestry	<input type="checkbox"/> Wildlife	<input type="checkbox"/> Fire Mgmt.	<input type="checkbox"/> Engineering	<input type="checkbox"/>
<input type="checkbox"/> Contracting	<input type="checkbox"/> Ecology	<input checked="" type="checkbox"/> Botany	<input type="checkbox"/> Archaeology	<input type="checkbox"/>
<input checked="" type="checkbox"/> Fisheries	<input type="checkbox"/> Research	<input type="checkbox"/> Landscape Arch	<input checked="" type="checkbox"/> GIS	

Team Leader: John McRae

H. Treatment Narrative:

(Describe the emergency treatments, where and how they will be applied, and what they are intended to do. This information helps to determine qualifying treatments for the appropriate funding authorities. For seeding treatments, include species, application rates and species selection rationale.)

Land Treatments:

- A. Soil stabilization/hillslope erosion: None needed. This was mostly a low-intensity fire, with only a few acres of moderate-intensity fire. The ground has retained most of its organic litter and in areas where the canopy was burned a thick layer of needles is already beginning to cover the soil. No hydrophobic soils were detected. Due to the largely intact canopy, presence of organic soil cover, retention of soil structure, and lack of hydrophobic soils, no detrimental effects to soil productivity or hydrologic function are anticipated.
- B. Invasive weeds: Treatment includes invasive weed detection assessment of dozer lines and access routes within the Bonanza and Swim Fires, including manual treatment of any detected occurrences. Intent of treatments would be to prevent the establishment and spread of existing infestations of yellow star-thistle from equipment staging areas and access routes onto Forest roads and catlines within the fire perimeters.

Channel Treatments: There are a few small stream channels within the fire boundary and stream crossings at the dozer lines. All material that was placed in stream channels as a result of dozer line construction or other suppression efforts has been removed. Further channel treatments are not needed. No changes in timing or magnitude of peak flows is expected, therefore changes to stream channels should be very minor if not undetectable.

Roads and Trail Treatments: Roads and trails used for suppression efforts have been returned to their pre-fire condition (or better). Due to the mostly low intensity of the fire, trails within the fire perimeter were largely unaffected.

Protection/Safety Treatments: There are no protection or safety concerns with this fire. No structures, powerlines, water supply intakes or other human resources exist below potentially unstable areas or downstream of effected streams.

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.)

Part VI – Emergency Stabilization Treatments and Source of Funds

Interim #

			NFS Lands				Other Lands			All	
		Unit	# of		Other		# of	Fed	# of	Non Fed	Total
Line Items	Units	Cost	Units	BAER \$	\$		units	\$	Units	\$	\$
A. Land Treatments											
Plan. and Admin.	1	\$975	\$1	\$975	\$0			\$0		\$0	\$975
Detection/treatment	1	\$4,500	1	\$3,000	\$0			\$0		\$0	\$3,000
Vehicle and Travel	1	\$525	\$1	\$525	\$0			\$0		\$0	\$525
Per diem				\$0	\$0			\$0		\$0	\$0
<i>Insert new items above this line!</i>											
Subtotal Land Treatments				\$4,500	\$0			\$0		\$0	\$4,500
B. Channel Treatments											
				\$0	\$0			\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0			\$0		\$0	\$0
Subtotal Channel Treat.				\$0	\$0			\$0		\$0	\$0
C. Road and Trails											
				\$0	\$0			\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0			\$0		\$0	\$0
Subtotal Road & Trails				\$0	\$0			\$0		\$0	\$0
D. Protection/Safety											
				\$0	\$0			\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0			\$0		\$0	\$0
Subtotal Structures				\$0	\$0			\$0		\$0	\$0
E. BAER Evaluation											
				\$0	\$0			\$0		\$0	\$0
<i>Insert new items above this line!</i>				---							
Subtotal Evaluation				\$0	\$0			\$0		\$0	\$0
F. Monitoring											
				\$0	\$0			\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0			\$0		\$0	\$0
Subtotal Monitoring				\$0	\$0			\$0		\$0	\$0
G. Totals				\$4,500	\$0			\$0		\$0	\$4,500
Previously approved											
Total for this request				\$4,500							

PART VII - APPROVALS

1. /s/ Nancy J. Gibson for
Forest Supervisor (signature)

8/25/08
Date

2. /s/ Katherine Clement (for)
Regional Forester (signature)

9/3/08
Date