USDA-FOREST SERVICE FS-2500-8 (6/06)

Date of Report:

BURNED-AREA REPORT
(Reference FSH 2509.13)

PART I - TYPE OF REQUEST

A. Type of Report

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

B. Type of Action

[X] 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: Fletcher
B. Fire Number CA-MDF-000359
C. State: CA
D. County Modoc
E. Region: 05
F. Forest: Modoc National Forest

G. District: Devils Garden
H. Fire Incident Job Code: P5D016

I. Date Fire Started: 07/10/07
J. Date Fire Contained 07/19/2007

K. Suppression Cost: 4,200,000

L. Fire Suppression Damages Repaired with Suppression Funds
1. Fireline waterbarred (miles): 7.4 miles (2.1 miles NFS lands)
2. Fireline seeded (miles): 0
3. Other (identify): Roads 14.5 miles (Fire area) 9.2 miles (NFS lands)

M. Watershed Number 180200010403 (Three 7th Field Subwatersheds)

N. Total Acres Burned:
NFS Acres(2225) Other Federal (0) State-OR (1507) Private (4407)

O. Vegetation Types: Mixed Conifer, Juniper, mixed shurbs and grasses

P. Dominant Soils: Bertag, deep-Cavanaugh-Mascap Familes Association (SMU 127-20%), DeMasters-Merlin-DeMasters deep Families Association (SMU 147-37%), Deven-Puls Families Assocation (SMU 158-22%), and Other (21%)

Q. Geologic Types: Basalt Plateau, Oregon Rock Rim

R. Miles of Stream Channels by Order or Class: Fire Area: 6 miles (P), 10.5 miles (I), 8 miles (E)
NFS lands 0 miles (P), 5.4 miles (I), 8 miles (E)

S. Transportation System

Trails: 0 miles Roads: 14.5 miles (Fire Area) and 9.2 miles (NFS lands)

PART III - WATERSHED CONDITION

A. Burn Severity (acres): 506 (low) 1519 (moderate) 504 (high)

B. Water-Repellent Soil (acres): 340

C. Soil Erosion Hazard Rating (acres):
480 (low) 1320 (moderate) 425 (high)

D. Erosion Potential: 2.4 tons/acre

E. Sediment Potential: 1513 cubic yards / square mile

PART IV - HYDROLOGIC DESIGN FACTORS

A. Estimated Vegetative Recovery Period, (years):	20-50
B. Design Chance of Success, (percent):	60
C. Equivalent Design Recurrence Interval, (years):	10
D. Design Storm Duration, (hours):	3.96
E. Design Storm Magnitude, (inches):	1.26
F. Design Flow, (cubic feet / second/ square mile):	0.73
G. Estimated Reduction in Infiltration, (percent):	20
H. Adjusted Design Flow, (cfs per square mile):	0.88

PART V - SUMMARY OF ANALYSIS

A. Describe Critical Values/Resources and Threats:

Downstream of 90% of NFS lands that burned in the Fletcher Fire is private lands, County Road 48 and Goose Lake. Goose lake is a closed basin that provides water for agricultaral usage and very limited recreational use. No dwellings, communities or threats to public safety are evident. There are no TE&S Fish or wildlife species at risk.

The Corral Creek 7th field sub-watershed is at risk for degradation of soil and water quality. Private lands downstream of the lower Corral Creek crossing of Forest Road 47N08 are at risk for degradation and loss of productivity as well as County Road 48. The crossings of the forest road network of the Corral Creek drainage network are at risk for being washed out during the anticipated bulked stream flow. The Fletcher Fire burned across 3 grazing allottments on the Modoc, thereby limiting the ability of the forest to properly manage the

grazing activities due to the loss of the fence lines between the grazing allottments.prevent th introduction of noxious weeds into the fire area from either private or other federal lands.

B. Emergency Treatment Objectives: To reduce the risk of downstream degradation to private lands, protect County Road 48, minimizethe degradation to soil quality, protect watershed resources and allow the drainage network on NFS lands to pass the anticipated storm flow

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

Land **80** % Channel **100** % Roads/Trails **80** % Protection/Safety **NA** %

D. Probability of Treatment Success

	Years after Treatment		
	1	3	5
Land	80	60	40
Channel	100	80	60
Roads/Trails	80	60	40
Protection/Safety	NA	NA	NA

E. Cost of No-Action (Including Loss): 610,000

F. Cost of Selected Alternative (Including Loss): 100,388

G. Skills Represented on Burned-Area Survey Team:

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

Team Leader: Peter Adams

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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:

Noxious weed surveys-survey all interior roads, dozer lines, hand lines and permimeter fire lines for the presence of noxious weeds on NFS lands for $7500. It is uncertain if all of the engines and support

vehicles (i.e. dozers, water tenders and etc) were washed prior to entering the fire area. As the fire grew from 2500 acres to 8000 acres fire engines and support vehicle were coming in from adjacent forests, Oregon and other areas where there are known population of noxious weeds. Due to the nature of the fire spread due to extreme fire behavior, it is unknown if these resources were washed and cwertified as weed free. There is one known population of med sage within 1 mile of the fire area on NFS lands. It is unknown if there are any known populations on either ODF or private lands within 1 mile of the fire area.

Supplies for the construction of range fence for the East Grizzle Allottment for $12000. These funds will be used to purchase materials and the grazing permitee/Modoc National forest will provide funds for the reconstruction of the allottment pasture fencing and the forest/permittee will construct the pasture fence..

Contour Falling of fire damaged trees across the face of the steep slope associated with SMU 127 within the NE1/4 of Section 24 and 19 for $20000. The estimated cost for for the recommended land treatments is $39500.

Channel Treatments: None

Roads and Trail Treatments:

Clean out the inlets of Corral Creek at 2 crossings in Sections 6 and 12 of Township 47 North and Range 13 East. Clean out the inlet of a tributray to Corral Creek

Clean out the inlets of Corral Creek at 2 crossings in Sections 6 and 12 of Township 47 North and Range 13 East. Clean out the inlet of a tributray to Corral Creek in Section 25, Township 48 North and range 12 East.

Improve the road drainage of Forest Road 47N81 by grading and crowning or outsloping the road for a distance of 0.3 miles. This will include reconstruction and armoring of the inside ditch, installation of one cross drain and 3 rolling dips or using natural breaks. Rocking of the outlets of the cross drain and rolling dips would be completed as energy dissipators.

Improve the road drainage of Forest Road 47N08 for a distance of 3.1 miles from the lower cr4ossing of Corral Creek to the bench. This would be accomplished by grading the road and crowning or outsloping the roadway, installation of 5 cross drain and 10 rolling dips or using natural breaks. Replace two crossing of the roadway by installation of three culverts that crosses Forest Road 47N08 with three 24 inch culverts. This will include the cleaning out and armoring of the outlets of the cross drain and rolling dips would be completed as energy dissipators.

Improve the road drainage of Forest Road 48N20 by grading and outsloping for a distance of 2.4 miles. miles from the junction with County Road 48 to the CA/OR State Line.This will include cleaning out the inside ditch, replacement of 5 cross drain and 10 rolling dips or using natural breaks. Replace a three 12 inch culverts that crosses Forest Road 48N20 with three 24 inch culverts. This will include the cleaning out and armoring of the outlets of the cross drain and rolling dips would be completed as energy dissipators. On the approachs to stream crossing two rolling dips will be constructed approximately 50 feet from the lower and upper crossings to disconnect the roadway from the stream crossings. These approaches will be rocked to minimize the sediment coming from the hillsides from entering the stream crosssings.

Storm Patrol- prior to the onset of the fall rains (mid november), the Forest Hydrologist or his/her representative will review the culverts to insure they are ready to pass the storm flow. Immediately following (within 24 hours) of a 10 year storm event the culverts will be inspected to insure they are cleared and capable of passing the storm flow.

The estimated cost for the road and trail treatments is $70788. Fire suppression will complete approximately $10,500 worth of road work under the P code. It is requested BAER provide the remainder or $60,288.

Protection/Safety Treatments: None

I. **Monitoring Narrative:** None

(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 # 1**

			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										
Noxious Weed Surv	1	7500	1	$7,500	$0		$0		$0	$7,500
Countor falling	40	500	40	$20,000	$0		$0		$0	$20,000
Fencing Supplies	MILE	3000	4.2	$12,600	$0		$0		$0	$12,600
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Land Treatments				$40,100	$0		$0		$0	$40,100
B. Channel Treatments										
					$0		######		#######	#VALUE!
				$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		######		#######	#VALUE!
C. Road and Trails										
Corral Creek Clean	each	2500	2	$5,000						
47N81	MILE	10960	0.3	$3,288	$500		$0		$0	$3,788
47N08	MILE	10000	3.1	$31,000	$3,450		$0		$0	$34,450
48N20	MILE	8000	2.4	$19,200	$6,500		$0		$0	$25,700
STORM PATROL	DAYS	360	5	$1,800	$0					
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Road & Trails				$60,288	$10,450		$0		$0	$63,938
D. Protection/Safety										
				$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										
MDF BAER ASS	1	4300	1	$4,300	$0		$0		$0	$0
Insert new items above this line!				---	$0		$0		$0	$0
Subtotal Evaluation				---	$0		$0		$0	$0
F. Monitoring										
					$0		######		#######	#VALUE!
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Monitoring				$0	$0		######		#######	#VALUE!
G. Totals				$100,388	$10,450		######		#######	#VALUE!

PART VII - APPROVALS

1. /s/Stanley G. Sylva — 08/01/2007
   Forest Supervisor (signature) — Date

2. */s/ James M. Peña (for)* — *08/02/2007*
   Regional Forester (signature) — Date