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

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 WFSU-SULT funds
[ ] 2. Accomplishment Report
[ ] 3. No Treatment Recommendation

B. Type of Action

[X] 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: Davis

B. Fire Number: P63727

C. State: OR

D. County: Deschutes and Klamath

E. Region: 06

F. Forest: Deschutes

G. District: Crescent

H. Date Fire Started: 06-28-2003

I. Date Fire Contained: 07-06-2003

J. Suppression Cost: $6,500,000 (estimate)

K. Fire Suppression Damages Repaired with Suppression Funds
1. Fireline waterbarred (miles): 12
2. Fireline seeded (miles): 0
3. Other (identify): Safety areas, drop points, dozer turnarounds

L. Watershed Number: 170703010202 through 07; 170703020206 and 07; 170703020301

M. Total Acres Burned:
NFS Acres(21260) Other Federal (0) State (0) Private (0)

N. Vegetation Types: Lodgepole pine and mixed conifer (wet and dry)

O. Dominant Soils: Map units 96 and 98 (Vitric Cryands)

P. Geologic Types: Broad strato-volcanoes; outwash basin

Q. Miles of Stream Channels by Order or Class: 4.1 (perennial); 1.2 (intermittent)

R. Transportation System

Trails: 11.4 miles Roads: 160 miles

PART III - WATERSHED CONDITION

A. Burn Severity (acres): 20752 (low) 508 (moderate) 0 (high)

B. Water-Repellent Soil (acres): 0

C. Soil Erosion Hazard Rating (acres): 20260 (low) 1000 (moderate) 0 (high)

D. Erosion Potential: 0.75 tons/acre

E. Sediment Potential: 34 cubic yards/square mile

PART IV - HYDROLOGIC DESIGN FACTORS

A. Estimated Vegetative Recovery Period, (years):	5
B. Design Chance of Success, (percent):	80
C. Equivalent Design Recurrence Interval, (years):	25
D. Design Storm Duration, (hours):	0.5
E. Design Storm Magnitude, (inches):	0.70
F. Design Flow, (cubic feet / second/ square mile):	22
G. Estimated Reduction in Infiltration, (percent):	50
H. Adjusted Design Flow, (cfs per square mile):	44

PART V - SUMMARY OF ANALYSIS

A. Describe Watershed Emergency:

The burn area contains habitat for bull trout (Odell Creek and Davis Lake) and is thus managed as a Tier 1 Key watershed per direction in the Northwest Forest Plan. Odell Creek is also listed on the State of Oregon 303d list due to impairment of shade. Trees and shrubs along a two mile reach of Odell Creek directly upstream of Davis Lake were consumed by the fire, resulting in further loss of shade. Additionally the loss of vegetation could result in significant bank erosion and sediment delivery to the channel. The potential bank erosion and sedimentation and increase in water temperature could have negative effects on bull trout as well as further exacerbate the 303d listing.

The burn area contains 160 miles of road (4.8 miles/mi^2), some of which traverses steep slopes. Short duration, high intensity convective storms could lead to road erosion and sedimentation and plugging of culverts. Depending upon the magnitude of damage, human safety issues could develop while forest users are driving these roads.

There are several known populations of noxious weeds (knapweed, dalmation toadflax, tansy ragwort and bull thistle) within the burn area that if left untreated could expand due to the loss of competing vegetation. The spread of weeds could lead to unacceptable impact to ecosystem function.

B. Emergency Treatment Objectives:

Mitigate fire effects on bull trout habitat and the 303d listing.

Protect forest users that drive main roads within the burn.

Prevent the spread of noxious weeds.

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

Land **NA** % Channel **NA** % Roads **NA** % Other **NA** %

Recommended treatments involve control of noxious weeds and monitoring of roads and Odell Creek therefore assignment of design storm probabilities is meaningless.

D. Probability of Treatment Success

	Years after Treatment		
	1	3	5
Land	80	80	80
Channel	NA	NA	NA
Roads	NA	NA	NA
Other	NA	NA	NA

E. Cost of No-Action (Including Loss): $92,960

F. Cost of Selected Alternative (Including Loss): $8,000

G. Skills Represented on Burned-Area Survey Team:

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

Team Leader: Greg Bevenger, Hydrologist, Shoshone National Forest, Cody, WY

Email: gbevenger@fs.fed.us Phone: 307.578.1263 FAX: 307.578.1212

H. **Treatment Narrative:**

Land Treatments:

Treatment of noxious weeds by hand pulling and spot spraying are proposed. Please reference the attached specification sheets for details on this treatment.

Channel Treatments:

None.

Roads and Trail Treatments:

None.

Other:

None.

I. **Monitoring Narrative:**

Storm patrol monitoring of roads, riparian area monitoring along Odell Creek, and noxious weed monitoring are proposed. Please reference the attached specification sheets for details on this proposed monitoring. These sheets are intended to serve as the monitoring plan.

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										
Noxious weeds	Each	3850	1	$3,850			$0		$0	$3,850
				$0			$0		$0	$0
				$0			$0		$0	$0
				$0			$0		$0	$0
Subtotal Land Treatments				$3,850			$0		$0	$3,850
B. Channel Treatments										
				$0			$0		$0	$0
				$0			$0		$0	$0
				$0			$0		$0	$0
				$0			$0		$0	$0
Subtotal Channel Treat.				$0			$0		$0	$0
C. Road and Trails										
Storm patrol				$2,175			$0		$0	$2,175
				$0			$0		$0	$0
				$0			$0		$0	$0
				$0			$0		$0	$0
Subtotal Road & Trails				$2,175			$0		$0	$2,175
D. Structures										
				$0			$0		$0	$0
				$0			$0		$0	$0
				$0			$0		$0	$0
				$0			$0		$0	$0
Subtotal Structures				$0			$0		$0	$0
E. BAER Evaluation										
Team				$16,000			$0		$0	$16,000
Helicopter				$2,000			$0		$0	$2,000
SPOT				$1,500			$0		$0	$1,500
Subtotal Evaluation				$19,500			$0		$0	$19,500
F. Monitoring										
Riparian photo points	Sites	5	179	$895			$0		$0	$895
				$0			$0		$0	$0
Subtotal Monitoring				$895			$0		$0	$895
G. Totals				**$26,420**			**$0**		**$0**	**$26,420**

PART VII - APPROVALS

1. /s/ Leslie A.C. Weldon_____ 7/11/2003
   Forest Supervisor (signature) Date

2. _____ _____
   Regional Forester (signature) Date