

Date of Report: 08/21/06

BURNED-AREA REPORT
(Reference FSH 2509.13)

PART I - TYPE OF REQUEST

A. Type of Report

- ☐ 1. Funding request for estimated WFSU-SULT funds
- ☒ 2. Accomplishment Report
- ☐ 3. No Treatment Recommendation

B. 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: Cave

B. Fire Number: PDB3CM

C. State: OR

D. County: Deschutes

E. Region: 06

F. Forest: 01 Deschutes & Prineville BLM

G. District: 01 Bend-Fort Rock

H. Date Fire Started: 8/19/05

I. Date Fire Contained: 8/23/05

J. Suppression Cost: \$100,000 estimated total

K. Fire Suppression Damages Repaired with Suppression Funds

- 1. Dozer Fireline (miles): 8.3 miles (in the process of rehabing)
- 2. Hand Fireline (miles): 0 miles (in the process of rehabing)
- 3. Other (identify): Safety zone & drop points

L. Watershed Number: 1707030508 Lower Dry River 5th Field

Sub-watershed 170703050804 Stookey 376 AC.
170703050805 Reynolds Pond 477 AC.

M. Total Acres Burned: 853 acres

NFS Acres (473) Other Federal - BLM Acres (380) State () Private ()

N. Vegetation Types: FS map PPD 327 AC. XSHB 146 AC. (xeric shrubland). Cinder Cone Allotment #03002.

O. Dominant Soils: FS map soil resource inventory unit 75, 83 AC. LR 390 AC.

P. Geologic Types: Fractured Basalt Lavas Qb 853 AC.

Q. Miles of Stream Channels by Order or Class: 0

R. Transportation System

FS/BLM Trails: 0 miles

Roads: FS 4.2 miles, BLM 2.0 miles

Open: FS 2.2 miles, BLM 2.0 miles

Closed:

Obliterated:

PART III - WATERSHED CONDITION

A. Burn Severity (acres): FS/BLM 10 (Unburned) FS/BLM 823 (Low) FS 20 (Moderate) 0 (High)

B. Water-Repellent Soil (acres):

Estimated 100% of low/mod. burn severity acres. Water repellency was not observed as spotty across the landscape, with some being natural.

C. Soil Erosion Hazard Rating (acres): FS/BLM 818 (low) FS/BLM 34 (moderate) 0 (high)

D. Erosion Potential: 0.47 tons/acre

E. Sediment Potential: 0 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): 20

H. Adjusted Design Flow, (cfs per square mile): 27

PART V - SUMMARY OF ANALYSIS

A. Describe Watershed Emergency:

The Cave Fire is located approximately 11 miles Southeast of Bend, Oregon in Deschutes County. The fire started on Aug. 19th, 2005 within the old Skeleton Burn near Wind Cave. The fire is believed to be man caused, but is under investigation. The fire was contained on Aug. 23rd, 2005. Control of the fire is anticipated to be Aug. 31st, 2005. Most of the fire falls within General Forest (GFO) and Deer Habitat (DHB).

Values at risk:

PUBLIC HEALTH AND SAFETY:

Cave access in this area is a public safety concern for FS and BLM. An existing Forest order prohibiting all travel off designated roads is in effect, but may not be adequate for fire caused conditions.

ECOLOGICAL INTEGRITY:

Noxious weeds had not been identified within the fire area boundary. The disturbance of the fire, both the fire and suppression activities, create opportunities for weeds/invasive plants to invade uninfested areas. Areas of low/moderate burn severity are susceptible to invasion by noxious weeds and other non-native plants.

TRANSPORTATION INFRASTRUCTURE:

Traffic safety and cave access is a public safety concern because of fire caused conditions.

CRITICAL HERITAGE RESOURCES:

There are thirteen prehistoric archaeological sites (10 on the Bend Fort Rock District, Deschutes NF and 3 on the Prineville District BLM). The majority of which are lithic scatters associated with lava tube collapses and "caves". All are either determined to be eligible to the National Register of Historic Places (NRHP), or are unevaluated for the National Register of Historic Places (NRHP). All thirteen prehistoric archaeological sites are at risk from surface collection and illegal excavation due to their increased exposure. In addition, access to the area is now increased from the opening of closed roads, blading of dozer fire lines and increased public awareness of site visibility.

B. Emergency Treatment Objectives:

PUBLIC HEALTH AND SAFETY:

Control access temporarily on FS road 1800200, and FS/BLM local access roads to keep public safe.

ECOLOGICAL INTEGRITY:

Reduce potential of weed/invasive plant spread with initial treatment to reduce/eliminate flowering plants. Noxious weeds are known to be near the burn area (1.5 miles West). Treat new weed/invasive populations and monitor treatment effectiveness. Monitor disturbed fire areas for new noxious weed infestations. Treatment and monitoring of noxious weed will occur the first year with additional treatment and monitoring occurring in the two subsequent years under interim BAER requests.

TRANSPORTATION INFRASTRUCTURE:

Control access temporarily and provide reasonable precautionary measures. Construct road closure gate and rock barricades. Replace existing post/sign to facilitate driver safety when road is re-opened.

CRITICAL HERITAGE RESOURCES:

Prevent the loss of irreplaceable heritage resources.

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

Land* 80 % Channel NA % Roads 95 % Other N/A %

D. Probability of Treatment Success

	Years after Treatment		
	1	3	5
Land	80	80	80
Channel			
Roads	95	95	95
Structures			

E. Cost of No-Action (Including Loss): \$73,390

F. Cost of Selected Alternative (Including Loss): \$57,244

G. Skills Represented on Burned-Area Survey Team:

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

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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:

USDA, FS Noxious Weeds
Not completed.

USDA, FS Heritage
Not completed.

Roads and Trail Treatments:

USDA, FS Roads
All treatments have been completed.

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.)

USDA, FS Noxious Weeds
Request monitoring funds (\$3,220) be carried over to FY07.

USDA, FS Heritage
Request monitoring funds (\$9,000) be carried over to FY07.

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	Crew(2)	\$460	2	\$0	\$0		2	\$0		\$0	\$0
Seeding	AC	\$200	0	\$0	\$0		2	\$0		\$0	\$0
Temp. Fencing	MI	\$1,066	0	\$0	\$0		2.5	\$0		\$0	\$0
Heritage	Crew(2)	\$500	2	\$0	\$0		2	\$0		\$0	\$0
Insert new items above this line!				\$0	\$0			\$0		\$0	\$0
Subtotal Land Treatments				\$0	\$0			\$0		\$0	\$0
B. Channel Treatments											
Insert new items above this line!				\$0	\$0			\$0		\$0	\$0
Subtotal Channel Treat.				\$0	\$0			\$0		\$0	\$0
C. Road and Trail Treatments											
Signs/Posts & Install	EA	\$300	5	\$0	\$0		2	\$0		\$0	\$0
Metal Gate & Install	EA	\$3,500	1	\$0	\$0			\$0		\$0	\$0
Rock Barricade	EA	\$1,000	2	\$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											
Insert new items above this line!				\$0	\$0			\$0		\$0	\$0
Subtotal Structures				\$0	\$0			\$0		\$0	\$0
E. BAER Evaluation											
Personnel	LS	\$5,250	0.55	\$0	\$0		0.45	\$0		\$0	\$0
Transportation	LS	\$200	0.55	\$0	\$0		0.45	\$0		\$0	\$0
Supplies	LS	\$50	0.55	\$0	\$0		0.45	\$0		\$0	\$0
Insert new items above this line!				\$0	\$0			\$0		\$0	\$0
Subtotal Evaluation				\$0	\$0			\$0		\$0	\$0
F. Monitoring											
Noxious Weeds	Crew(2)	\$460	7	\$3,220	\$0		7	\$0		\$0	\$3,220
Seeding	Day	\$250	0	\$0	\$0		3	\$0		\$0	\$0
Heritage	Crew(2)	\$500	18	\$9,000	\$0		12	\$0		\$0	\$9,000
Insert new items above this line!				\$0	\$0			\$0		\$0	\$0
Subtotal Monitoring				\$12,220	\$0			\$0		\$0	\$12,220
G. Totals				\$12,220	\$0			\$0		\$0	\$12,220

Cave Fire Burn Area Emergency Response

PART VII - APPROVALS

Forest Supervisor (signature) Date:
Leslie A.C. Weldon
Deschutes NF

District Manager BLM (signature) Date:

Regional Forester (signature) Date:

State Director BLM (signature) Date: