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

Date of Report: October 30, 2003

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
[X] 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: Shepard Canyon Fire

B. Fire Number: P4AXG9

C. State: Utah

D. County: Davis

E. Region: Intermountain (R4)

F. Forest: Wasatch-Cache NF (19)

G. District: Salt Lake Ranger District(D1)

H. Date Fire Started: 23 October 2003

I. Date Fire Contained: 27 October 2003

J. Suppression Cost: estimated $370,000

K. Fire Suppression Damages Repaired with Suppression Funds
1. Fireline waterbarred (miles): 0
2. Fireline seeded (miles): 0
3. Other (identify): 0

L. Watershed Number: 160201020503

M. Total Acres Burned: 391
NFS Acres(391) Other Federal ( ) State ( ) Private ( )

N. Vegetation Types: Mixed Mountain Shrub

O. Dominant Soils: Lithic Haploxerolls – shallow, cobbly,siltloams and sand-clay over loamy skeletal subsoil

P. Geologic Types:Archean schist and gneiss, Holocene and Pleistocene landslide deposits.

Q. Miles of Stream Channels by Order or Class: Perennial: order 1=0.8; order 2=0.5

R. Transportation System

Trails: 0 miles Roads: 0 miles

PART III - WATERSHED CONDITION

A. Burn Severity (acres): 368 (low) 23 (moderate) 0 (high)

B. Water-Repellent Soil (acres): 23

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

D. Erosion Potential: No change over pre-fire tons/acre

E. Sediment Potential: No change over pre-fire cubic yards / square mile

PART IV - HYDROLOGIC DESIGN FACTORS

*This section is not applicable because no change in flow is expected. Only 1.6% of the watershed has a moderate soil severity and will not change the flow characteristics from pre-fire conditions.

A. Estimated Vegetative Recovery Period, (years): N/A

B. Design Chance of Success, (percent): N/A

C. Equivalent Design Recurrence Interval, (years): N/A

D. Design Storm Duration, (hours): N/A

E. Design Storm Magnitude, (inches): N/A

F. Design Flow, (cubic feet / second/ square mile): N/A

G. Estimated Reduction in Infiltration, (percent): N/A

H. Adjusted Design Flow, (cfs per square mile): N/A

PART V - SUMMARY OF ANALYSIS

A. Describe Watershed Emergency:
The fire occurred on steep slopes in a small canyon midway up the Wasatch Front above Farmington City, Utah. A perennial stream flows through the canyon, of which the eastern boundary of the fire burned at a low burn severity near the stream. At the mouth of Shepard Canyon, the stream flows through a five-foot culvert underneath a residential road and down through a narrow drainage into a small reservoir. The only man made structure affected by the fire is a burned powerline that leads to the FAA towers on Francis Peak. An irrigation diversion is located on Shepard Creek about 1.5 miles downstream of the fire. No fisheries are recorded for Shepard Creek.

Some short term erosion and sediment is expected primarily on moderate burned areas that are located on upper portions of the hill slopes. Low burned areas have a good buffer strip between the burned areas and the stream. The entire fire area is expected to recover rapidly next spring. The likelihood of ash and sediment reaching the stream from the moderate burned areas is minimal because of the distance from live water and small area of hydrophobic soils.

Loss of human life and property is not expected from post fire conditions.

B. Emergency Treatment Objectives: No treatments are recommended.

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): None

F. Cost of Selected Alternative (Including Loss): N/A

G. Skills Represented on Burned-Area Survey Team:

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

Team Leader: Charlie Condrat

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

(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:

Channel Treatments:

Roads and Trail Treatments:

Structures:

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.)

Survey to determine if natural revegetation is occuring.
GS-11Botanist and GS-12 Hydrologist to survey for one day.

Part VI – Emergency Rehabilitation Treatments and Source of Funds by Land Ownership

Line Items	Units	Unit Cost	# of Units	WFSU SULT $	Other $	# of units	Fed $	# of Units	Non Fed $	Total $
A. Land 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 Land Treatments				$0	$0		$0		$0	$0
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										
hydrologist	each	350	2	$700	$0		$0		$0	$700
botanist	each	300	2	$600	$0		$0		$0	$600
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Evaluation				$1,300	$0		$0		$0	$1,300
F. Monitoring										
Reveg success surve	day	$300	2	$600	$0		$0		$0	$600
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Monitoring				$600	$0		$0		$0	$600
G. Totals				**$1,900**	**$0**		**$0**		**$0**	**$1,900**

PART VII - APPROVALS

1. /s/ Thomas L. Tidwell _____
Forest Supervisor (signature) Date

2. /s/ Bert Kulesza for _____ 08/03/2004
Regional Forester (signature) Date