



**United States
Department of
Agriculture**

**Forest
Service**

**Intermountain
Region**

**324 25th Street
Ogden, UT 84401-2310**

File Code: 2520-3

Date: September 22, 2000

Route To:

Subject: Halfmoon Fire BAER Request

To: Forest Supervisor, Bridger-Teton NF

After review and consultation with the RO BAER coordinator, I have approved the enclosed 2500-8 request for the Halfmoon Fire.

The Forest must keep track of all funds by treatment or project type, and fiscal year. A report must be sent at the end of the fiscal year to the RO showing the expenditures for each fire. A final 2500-8 report must be submitted to the RO when projects and treatments have been completed and reviewed.

Please contact the Regional BEAR Coordinator Jeff Bruggink (801-625-5357) or Ken Heffner (801-625-5368) if you have any questions or concerns.

/s/ Christopher L. Pyron (for)

JACK A. BLACKWELL
Regional Forester

Enclosure

Cc:
Bridger-Teton NF (Randy Davis)
BPR (Jeff Bruggink, Ken Heffner, Bill Burbridge)
FR (Dick Ottesen)



Date of Report: 09/21/00

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: Halfmoon Complex B. Fire Number: WY-BTF-049
C. State: WY D. County: Sublette
E. Region: Intermountain F. Forest: Bridger-Teton
G. District: Pinedale
H. Date Fire Started: 8/12/00 I. Date Fire Controlled: Not at this time
J. Suppression Cost: \$750,000
K. Fire Suppression Damages Repaired with Suppression Funds
 1. Fireline waterbarred (miles): 0
 2. Fireline seeded (miles): 0
 3. Other (identify): Heritage site rehab: 3 acres (fire camp rehabilitation)
L. Watershed Number: 1404010209
M. Total Acres Burned: 1,090
 NFS Acres(1,090) Other Federal () State () Private ()

N. Vegetation Types: Aspen/shrub, Mixed conifer, Sagebrush/grass, and riparian (Willow/sedge)

O. Dominant Soils: Loamy-skeletal, mixed superactive, Typic cryochrepts (EUI Map Unit 5703), Loamy-skeletal, mixed superactive Typic Cryoborolls and superactive Pachic Cryoborolls (EUI Map Unit 6322)

P. Geologic Types: Granitic bedrock outcrops and glacial till derived from granitic materials

Q. Miles of Stream Channels by Order or Class: 0.7 miles = 1st order, 2.3 miles = 2nd order

R. Transportation System

Trails: 4 miles Roads: 0.0 miles

PART III - WATERSHED CONDITION

A. Burn Severity (acres): 926 (low) 109 (moderate) 55 (high)

B. Water-Repellent Soil (acres):

C. Soil Erosion Hazard Rating (acres):
926 (low) 109 (moderate) 55 (high)

D. Erosion Potential: 25-30 tons/acre

E. Sediment Potential: <5 cubic yards / square mile

PART IV - HYDROLOGIC DESIGN FACTORS

A. Estimated Vegetative Recovery Period, (years): 3 - 5

B. Design Chance of Success, (percent): NA

C. Equivalent Design Recurrence Interval, (years): NA

D. Design Storm Duration, (hours): NA

E. Design Storm Magnitude, (inches): NA

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

G. Estimated Reduction in Infiltration, (percent): NA

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

PART V - SUMMARY OF ANALYSIS

A. Describe Watershed Emergency:

Hazard trees are present in the vicinity of the damaged trail system which poses a safety risk to trail users. As a result of the fire, an increase in surface water is anticipated. This additional surface water is expected to erode and transport soil material throughout the burned area and impact the trail system within the burned area. The fire burned in steep granitic soil types which are highly susceptible to erosional forces. Wooden waterbars on system trails were damaged and in some cases destroyed. Due to additional surface water, supplemental waterbars and check dams will be needed to stabilize burned-over trails and reduce sediment entering nearby streams and ponds.

B. Emergency Treatment Objectives:

- 1.) Prevent loss of life and provide public information about the hazards associated with the fire area.
- 2.) Minimize erosion and sedimentation of nearby watercourses.
- 3.) Stabilize and protect the trail system.

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

Land ___ % Channel ___ % Roads/Trails 80 % Other ___ %

D. Probability of Treatment Success

	Years after Treatment		
	1	3	5
Land			
Channel			
Roads			
Trails	95	100	100
Other			

E. Cost of No-Action (Including Loss): \$40,000

F. Cost of Selected Alternative (Including Loss): \$51,425

G. Skills Represented on Burned-Area Survey Team:

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

Team Leader: Randy L. Davis

Email: rdavis03@fs.fed.us
739-5010

Phone: 307-739-5521

FAX: 307-

H. Treatment Narrative:

Land Treatments: None planned at this time.

Channel Treatments: None planned at this time.

Roads and Trail Treatments: On the Fayette Lake and Grouse Mountain trails the trail treads are at risk of obliteration by erosion or burial by sediment as a result of the fire. Fire damaged wooden waterbars will be repaired and/or replaced and additional ones installed. This emergency trail stabilization project will ensure the trail tread is protected and remains in place and minimize sediment migrating into nearby watercourses. Hazard trees will be removed to protect trail users. Warning signs will be installed to alert the recreation public of potential hazards in the vicinity of the trail.

Fayette Lake Trail: Remove hazard trees, replace damaged water bars and install additional waterbars as needed: 2 miles

Grouse Mountain Trail: Replace waterbars, and install additional waterbars as needed: .5 miles

Trail Information Kiosk: Provide an information kiosk at the Halfmoon Trailhead to distribute trail information regarding hazards and progress on the rehabilitation project in the burned area and travel management alerts.

Structures: None planned at this time.

H. Monitoring Narrative:

Noxious weeds will be monitored in the burned area and treatment prescribed as warranted. An Interim Report will be prepared to request funds to treat noxious weeds as needed for the burned area.

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											
				\$0				\$0		\$0	\$0
Subtotal Land Treatments				\$0				\$0		\$0	\$0
B. Channel Treatments											
				\$0				\$0		\$0	\$0
Subtotal Channel Treat.				\$0				\$0		\$0	\$0
C. Road and Trails											
Fayette Lk Trail Waterbars	Miles	2,850	2	\$5,700				\$0		\$0	\$5,700
Fayette Lk Trail Hazard Tree	Miles	150	2	\$300				\$0		\$0	\$300
Grouse Mtn Trail Waterbars	Miles	2,850	0.5	\$1,425				\$0		\$0	\$1,425
Trail Info Kiosk	each	1000	1	\$1,000				\$0		\$0	\$1,000
Subtotal Road & Trails				\$8,425				\$0		\$0	\$8,425
D. Structures											
				\$0				\$0		\$0	\$0
Subtotal Structures				\$0				\$0		\$0	\$0
E. BAER Evaluation											
Davis Salary	Day	289	1	\$289				\$0		\$0	\$289
Marsh Salary	Day	288	1	\$288				\$0		\$0	\$288
Nelson Salary	Day	215	2	\$430				\$0		\$0	\$430
Schoen Salary	Day	250	1	\$250				\$0		\$0	\$250
Stein Salary	Day	225	3	\$675				\$0		\$0	\$675
Svalberg Salary	Day	251	2	\$502				\$0		\$0	\$502
Subtotal BAER Evaluation				\$2,434				\$0		\$0	\$2,434
G. Monitoring Cost				\$0				\$0		\$0	\$0
Noxious Weeds	Year	3000	1	\$3,000				\$0		\$0	\$3,000
H. Totals				\$13,859				\$0		\$0	\$13,859

PART VII - APPROVALS

1. /s/ Kniffy Hamilton 9/21/00
Forest Supervisor (signature) Date
2. /s/ Christopher L. Pyron (for) 9/22/2000
Regional Forester (signature) Date