United States Department of Agriculture | Forest Service | Intermountain Region | 324 25th Street Ogden, UT 84401-2310

File Code: 2520-3 **Date:**
Route To:

Subject: Teton Complex Initial Burned Area Emergency Rehabilitation (BAER) Request

To: Forest Supervisor, Bridger-Teton NF

The enclosed initial request for BAER funds for the Teton Complex Fire is approved. Charge these activities to job code P49094.

You 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 Jeff Bruggink, Regional BAER Coordinator at (801) 625-5357 if you have questions or concerns.

JACK A. BLACKWELL
Regional Forester

Enclosure

Cc:
Bridger-Teton NF (Michael Schrotz, Randy Davis)
BPR (Jeff Bruggink, Ken Heffner, Bill Burbridge)
FR (Mike Clontz)

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

Date of Report: 10/5/00

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: Teton Complex (Enos and Bobcat Fires) B. Fire Number: WY-BTF-046

C. State: WY D. County: Teton

E. Region: R4 F. Forest: Bridger-Teton

G. District: Jackson

H. Date Fire Started: 8/9/2000 I. Date Fire Controlled: To be determined

J. Suppression Cost: $4,500,000

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

L. Watershed Number:

M. Total Acres Burned: 17,469
NFS Acres(7,706) Other Federal (**9,763**) State ( ) Private ( )

N. Vegetation Types: Mixed conifer, mixed grass meadows, willow/sedge

O. Dominant Soils: Typic Cryoboralfs, Argic Pachic Cryoborolls, Typic Cryochrepts

P. Geologic Types: Glacial morains composed of sandstone, limestone, granite, and conglomerate

Q. Miles of Stream Channels by Order or Class: 2nd Order: 24.5 and 3rd Order: 6.0

R. Transportation System

Trails: 27 miles Roads: miles

PART III - WATERSHED CONDITION

A. Burn Severity (acres): 4,624 (low) 2,312 (moderate) 770 (high)

B. Water-Repellent Soil (acres): 741

C. Soil Erosion Hazard Rating (acres):
___ (low) 4,444 (moderate) 2,222 (high)

D. Erosion Potential: 25 - 40 tons/acre

E. Sediment Potential: 1,078 – 1,724 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:

Overall, the fire burned in a mosaic pattern leaving areas of lightly and unburned vegetation. However there are areas within the fire perimeter, where the fire concentrated in the head waters of several perennial streams. Soils in the burned area have silty and clayey surface textures that once disturbed yield high amounts of suspended sediment. Pacific, Pilgrim, and Box Creeks are fish bearing and provide habitat for the Snake River Spotted Cutthroat Trout which is currenly petitioned for federal listing with the US Fish and Wildlife Service. An extensive trail system exists within the fire perimeter and has had wooden waterbars and bog bridges damaged and/or destroyed. Sections of the trail system lie in close proximity to stream courses and pose a significant threat to their water quality, streambank stability, and associated riparian areas. Due to the additional surface water, supplemental waterbars and check dams will be needed to reduce sediment entering nearby streams and ponds. Hazard trees are also present in the vicinity of the damaged trail system which pose a safety risk to trail users.

B. Emergency Treatment Objectives:

1.) Prevent loss of life.
2.) Minimize erosion and sedimentation of nearby watercourses.

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

Land ___ % Channel ___ % Roads ___ % Other ___ %

D. Probability of Treatment Success

	Years after Treatment		
	1	3	5
Land			
Channel			
Roads			
Trails	80	100	100
Other			

E. Cost of No-Action (Including Loss): $490,000

F. Cost of Selected Alternative (Including Loss): $274,200

G. Skills Represented on Burned-Area Survey Team:

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

Team Leader: Randy L. Davis

Email: rdavis03@fs.fed.us Phone: 307-739-5521 FAX: 307-739-5010

H. **Treatment Narrative:**

Land Treatments:

Channel Treatments:

Roads and Trail Treatments:

The loss of waterbars combined with the burned overstory vegetation is expected to cause accelerated erosion of the trail tread and generate large volumes of sediment. This is serious concern given the silty and clayey surface soils and the proximity of water courses. The estimated trail distance of these contributing zones is less than 100 feet on either side of the stream course along with minor stream crossings. Approximately 14 miles of trail are directly related to the watershed emergency. Additional waterbars are needed in these contributing trail segments to avoid detrimental impact to the stream's aquatic habitat. Especially for those streams supporting Snake River spotted cutthroat trout which is currently a petitioned fish species. Reduction of trail related sediment will enhance spawning habitat and streambank stability and protect riparian vegetation. An inventory for waterbar needs has been conducted and specific needs of each trail segment are listed below.

Trails

ID Number	Location/facility	Description of needs	Cost estimate
3038	Box Creek Trail	Install 45 waterbars	$6,750
3039	Lava Creek Trail	Install 75 waterbars	$11,250
3037	Enos Creek Trail	Install 30 waterbars	$4,500
3035W	W. Pilgrim Cr. Trail	Install 15 waterbars	$2,250
3035	Pilgrim Creek Trail	Install 60 waterbars	$9,000
Subtotal			$33,750

Hazard Tree Removal

ID Number	Location/facility	Description of needs	Cost estimate
3038H	Box Creek Trail	Clear 63 hazard trees	$1,575
3039H	Lava Creek Trail	Clear 58 hazard trees	$1,450
3037H	Enos Trail	Clear 36 hazard trees	$ 900
3035WH	W. Pilgrim Cr. Tr	Clear 73 hazard trees	$1,825
3035	Pilgrim Creek Trail	Clear 48 hazard trees	$1,200
Subtotal			$6,950

Structures:

Trail bog bridges were destroyed by the fire incident. These bridges are essential to proteting water qaulity and wetland resources and for providing safe access into the wilderness.

ID Number	Location/facility	Description of needs	Cost estimate
3038B	Box Creek Tr Bog Bridge	Reconstruct 40 feet of burned bog bridges (4)	$6,000
Subtotal			$6,000

H. **Monitoring Narrative:**

Noxious weeds have been documented within the burned area and will be monitored to determine if tretment is needed.

Noxious Weed Monitoring

ID Number	Location/facility	Description of needs	Cost estimate
M	Weed Monitoring	Monitor disturbed areas within burned areas for weed infestation.	$3,000
Subtotal			$3,000

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										
Box Cr. Tr. Waterbrs	Each	150	45	$6,750			$0		$0	$6,750
Box Cr. Tr. Hazrd Trees	Each	25	63	$1,575			$0		$0	$1,575
Lava Cr. Tr Waterbrs	Each	150	75	$11,250			$0		$0	$11,250
Lava Cr. Tr Hzrd Trees	Each	25	58	$1,450			$0		$0	$1,450
Enos Cr, Tr. Waterbrs	Each	150	30	$4,500			$0		$0	$4,500
Enos Cr, Tr. Hazrd Trees	Each	150	36	$5,400			$0		$0	$5,400
W. Pilgrim Cr Tr. Wtrbrs	Each	150	15	$2,250			$0		$0	$2,250
W. Pilgrim Cr Tr. Hzrd Trees	Each	25	73	$1,825			$0		$0	$1,825
Pilgrim Cr Tr. Wtrbrs	Each	150	60	$9,000			$0		$0	$9,000
Pilgrim Cr Tr. Hzd Trees	Each	25	48	$1,200			$0		$0	$1,200
Subtotal Road & Trails				$45,200			$0		$0	$45,200
D. Structures										
Box Cr Bog Bridges	Feet	150	40	$6,000			$0		$0	$6,000
Subtotal Structures				$6,000			$0		$0	$6,000
E. BAER Evaluation										
Davis Salary	Days	289	5	$1,445			$0		$0	$1,445
Marsh Salary	Days	288	3	$864			$0		$0	$864
Merrigliano Salary	Days	217	5	$1,085			$0		$0	$1,085
Schoen Salary	Days	250	2	$500			$0		$0	$500
Sandeno Salary	Days	200	2	$400			$0		$0	$400
Subtotal Structures				$4,294			$0		$0	$4,294
G. Monitoring Cost										
Noxious Weeds	Days	150	20	$3,000			$0		$0	$3,000
H. Totals				**$58,494**			**$0**		**$0**	**$58,494**

PART VII - APPROVALS

1. /s/ *Kniffy Hamilton* 10/5/00

   Forest Supervisor (signature) Date

2. _____ _____

   Regional Forester (signature) Date