

United States
Department of
Agriculture

Forest
Service

Salmon NF

Reply To: 2520/5100

Date: August 21, 1992

Subject: Burned Area Emergency Rehabilitation Report - Horsefly Fire

To: Regional Forester, R-4

Enclosed for your review and action is the Burned Area Rehabilitation Report for the Horsefly fire. We are recommending watershed treatments which could appropriately be funded with FW 22 dollars.

As shown in Part VI of the rehabilitation report, we are requesting funding of \$11,789.50 for emergency rehabilitation measures (aerial seeding) to protect the anadromous streams of Boulder and Spring Creeks and the main Salmon River. The majority of this fire is within two miles of the Salmon River. Boulder Creek contains anadromous steelhead within one-half mile of the Salmon River and Spring Creek (within one mile of the Salmon River) contains anadromous steelhead and Federally listed "threatened" chinook salmon. The main Salmon River has both the Federally listed "threatened" chinook and Federally listed "endangered" sockeye salmon fish. Portions of this funding will help minimize the impact on Boulder Creek to help protect the domestic water supply for the Shoup residents.

About 475 feet of silt fence has been installed in the Boulder and Spring Creek areas and about 145 feet will be installed in the McKay drainage which drains directly into the Salmon River. This silt fence was left over from last years fire, thereby adding no cost to this fire.

No dozer lines were built on this fire.

/s/ James R. Sustaire
FOR
JOHN E. BURNS
Forest Supervisor

cc:
District Ranger, D-2
TAF
RRWW
Pete Stender, R-4, Watershed
G.Jackson

G.Jackson:gj:lw

FS (WO FORMS)
INFORMALEST SERVICE

Date of Report: August 21, 1992

BURNED AREA REPORT
(Reference FSH 2509.13, Report FS-2500-A)

PART I - TYPE OF REQUEST

1. Type of Report

- ☒ A. Funding (Request for estimated FFF funds)
☐ B. Accomplishment Report

2. Type of Action

- ☒ A. Initial (estimated funding is first requested)
☐ B. Interim

☐ Updating the initial funding request.
☐ Supplying information for accomplishments to date
on emergency work underway.
☐ C. Final

☐ Best estimate for funds needed to complete eligible
rehabilitation measure.
☐ Following completion of funded work.

PART II - FIRE LOCATION

1. Fire Name (from Form FS-5100-29): Horsefly
2. Forest Supervisor's Fire No. (from Form FS-5100-29): P46075
3. State: Idaho
4. County: Lemhi
5. Region: 4
6. Forest: Salmon
7. Ranger District: North Fork
8. Date Fire Started: July 31, 1992
9. Date Fire Controlled: August 13, 1992
10. Estimated Suppression Costs: \$3,800,000.00
11. Fire Suppression Damages Repaired with FFF 102 Funds:

18.4 miles (firelines waterbarred)
_____ acres (firelines seeded)
_____ Other (identify)

12. Fire Intensity: 15 % (low) 75 % (medium) 10 % (high)

PART III - NATIONAL FOREST SYSTEM PROBLEM INVENTORY

1. Watershed No.: 034
2. NFS Acres Burned: 3,340

3. Water Repellant Soil: 25 % of NFS acres burned
4. Vegetation Types: Ponderosa pine, Douglas-fir, Mt. Mahogany, Idaho Fescue, Bluebunch Wheatgrass, Pinegrass
5. Geologic Types: Granite
6. Soil Erosion Hazard Rating:
10 % (low) 15 % (medium) 75 % (high)
7. Erosion Potential: 55.0 cu. yds/sq. miles
8. Miles of Stream Channels by Regional Order/Classes: 1=1; 2=0.8; 3=1.5; 4=1.0
9. Miles of Forest Service Trails: No. 148= 2.0; No. 149=0.5
10. Miles of Forest Service Roads by Maintenance Levels:
22.5 miles (Level I) 0 miles (Level II)
15.0 miles (Levels III, IV, V)

PART IV - CALCULATED RISK AND CLIMATIC EVALUATION

1. Estimated Vegetative Recovery Period: grass= 2-5 yrs, shrubs=3-8 yrs.
2. Chance of Success Desired by Management: 90 percent.
3. Equivalent Design Recurrence Period: 25 years.
4. Related Design Storm Duration: 6 hours.
5. Related Design Storm Magnitude: 1.6 inches.
6. Related Design Flow 25 cfs.
7. Estimated Reduction in Infiltration: 60 percent.
8. Adjusted Related Design Flow: 26 cfs.

PART V - SUMMARY OF SURVEY AND ANALYSIS

1. Skills Represented on Burned Area Survey Team ("x" appropriate boxes):

<input checked="" type="checkbox"/> Hydrology	<input checked="" type="checkbox"/> Soils	<input checked="" type="checkbox"/> Geology	<input type="checkbox"/> Range
<input checked="" type="checkbox"/> Timber	<input checked="" type="checkbox"/> Wildlife	<input checked="" type="checkbox"/> Fire Mgmt.	<input checked="" type="checkbox"/> Engineering
<input type="checkbox"/> Contracting	<input checked="" type="checkbox"/> Local Mgmt.	<input type="checkbox"/> Research	<input checked="" type="checkbox"/> Other-(Fisheries)
2. Describe Emergency: Due to the highly erosive granitic soils and very steep slopes, greater than 60 percent, and anadromous streams of Boulder Creek and Spring Creek, and the main Salmon River, there is a critical need to reduce ash and sediment delivered to these streams and river. Boulder creek contains anadromous steelhead within 1/2 mile of the Salmon River and Spring Creek (within 1 mile of the Salmon River) contains anadromous steelhead and Federally listed "threatened" chinook salmon. The main Salmon River has both the Federally listed "threatened" chinook and Federally listed "endangered" sockeye salmon fish. Also the need to minimize the ash and sediment in Boulder Creek for domestic water supply to the residents of Shoup.
3. Emergency Rehabilitation Objective: 1. Reduce the amount of sediment and ash delivered into Boulder Creek and Spring Creek which drains directly into the Salmon River. Majority of the fire is within two miles of the Salmon River. Minimize the amount of ash and sediment into Boulder Creek which is the domestic water supply for the Shoup residents. At this time, 475 feet of silt fence has been installed in Spring Creek and Boulder Basin. About 145 feet will be installed in McKay Creek which drains directly into The Salmon River. The silt fence and posts were extra material from last years fire (No cost).

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

Land 90 % Channel 90 % Roads _____ % Other _____ %

5. Net Environmental Quality Benefit Index:

☒ Significant Due to Fisheries ☐ Not Significant

6. Net Social Well Being Benefit Index:

☒ Significant Due to Shoup Community ☐ Not Significant

7. Benefit/Cost Ratio:

8. Net Benefits: \$ _____

9. Cost Effectiveness Index: ☐ I. ☒ II. ☐ III. ☐ IV.

Aerial Seeding of 350 acres of high intensity burned steep, highly erosive granitic soils. The following is the seeding information:

<u>SEED SPECIES</u>	<u>LBS/AC.</u>	<u>COST/LB.</u>	<u>TOTAL LBS.</u>	<u>TOTAL</u>
Paiute Orchard Grass	3	\$0.88	1,050	924.00
Lincoln Smooth Brome	3	\$0.91	1,050	955.50
Timothy	<u>4</u>	\$0.65	1,400	<u>910.00</u>
TOTAL POUNDS PER ACRE	10			\$2,789.50

Helicopter cost: 8 hrs. X \$ 1,000.00 per hour = \$8,000.00
Forest helicopter goes off contract August 31,1992
which increses cost to \$1,000.00.

Crew labor cost = \$1,000.00
ESTIMATED TOTAL COST OF REHAB. = \$11,789.50

PART VI - ELIGIBLE EMERGENCY REHABILITATION MEASURES OR TREATMENTS
AND SOURCE OF FUNDS

NOTE: Emergency rehabilitation is work done promptly following a wildfire and is not to solve watershed problems that existed prior to the wildfire.

Line Items	Units	Unit Cost	NFS Lands			Other Lands			All To
			No. of Units	FFF 092 \$	Other \$ ident.	No. of Units	Federal \$ ident.	Non-Federal \$ identify	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
A. LAND									
a. Seeding : Fire	Acres	33.68	350	ac.11,789.50					
b.									
c.									
d.									
e.									
B. CHANNELS									
a. Opening water									
courses	Miles								
b. Stabilizing									
streambanks	Miles								
c.									
d.									
e.									
C. ROADS AND TRAILS									
a.									
b.									
c.									
D. MAJOR STRUCTURES									
a. Preplanned -									
from Forest									
Plans									
E. TOTAL				\$11,789.50			\$	\$	\$

PART VII - APPROVALS

/s/ James R. Sustaire
FOR JOHN E. BURNS

Forest Supervisor (Signature)

August 21, 1992

Date

Regional Forester (Signature)

Date