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

PART I - TYPE OF REQUEST

1.	Type of	Report
	[X] A. [] B.	Funding (Request for estimated FFF funds) Accomplishment Report
2.	Type of	Action
		Initial (estimated funding is first requested) Interim
	[] C.	[] Updating the initial funding request.[] Supplying information for accomplishments to date on emergency work underway.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): Grouse Creek
- 2. Forest Supervisor's Fire No. (from Form FS-5100-29): P41704
- 3. State: Idaho
- 4. County: Elmore
- 5. Region: 4
- 6. Forest: 02 Boise NF
- 7. Ranger District: 02 Boise RD
- 8. Date Fire Started: 6-11-92
- 9. Date Fire Controlled: 6-13-92
- 10. Estimated Suppression Costs: \$ 100,000
- 11. Fire Suppression Damages Repaired with FFF 102 Funds:
 - 2.0 miles (firelines waterbarred)
 - 0.0 acres (firelines seeded)

_____Other (identify)

12. Fire Intensity: 15 % (low) 40 % (medium)

45 % (high)

PART III - NATIONAL FOREST SYSTEM PROBLEM INVENTORY

- 1. Watershed No.: 1705011237 (Arrowrock)
- 2. NFS Acres Burned: 3,455
- 3. Water Repellant Soil:

50 % of NFS acres burned

- 4. Vegetation Types: Shrub/Grass- 90% Riparian- 10%
- 5. Geologic Types: Granitics
- 6. Soil Erosion Hazard Rating:
 - 1 % (low)
- 15 % (medium) 84 % (high)

- 7. Erosion Potential: 208 cu. yds/sq. mile
- 8. Miles of Stream Channels by Regional Order or Classes: 2.1 miles Order 3

2.6 miles Order 2

11.2 miles Order 1

- 9. Miles of Forest Service Trails: 0.0
- 10. Miles of Forest Service Roads by Maintenance Levels:
 - ____2.2 miles (Level I) ____0 miles (Level II) 0 miles (Levels III, IV, V)

PART IV - CALCULATED RISK AND CLIMATIC EVALUATION

- 1. Estimated Vegetative Recovery Period: 4 years.
- 2. Chance of Success Desired by Management: 60 percent.
- 3. Equivalent Design Recurrence Period: 10 years.
- 4. Related Design Storm Duration: 6 hours.
- 5. Related Design Storm Magnitude: 1.3 inches.
- 6. Related Design Flow 12.9 cfsm.
- 7. Estimated Reduction in Infiltration: 50 percent.
- 8. Adjusted Related Design Flow: 15.1 cfsm.

PART V - SUMMARY OF SURVEY AND ANALYSIS

1.	Skills Represented on Burned Area Survey Team ("x" appropriate boxes):
	<pre>[X] Hydrology [X] Soils [] Geology [X] Range [] Timber [X] Wildlife [] Fire Mgmt. [] Engineering [] Contracting [X] Local Mgmt. [] Research [X] Fisheries</pre>
2.	Describe Emergency: Wildfire destroyed protective watershed vegetation which has increased the potential for accelerated erosion and sedimentation to Arrowrock Reservoir which is directly below the fire area. This reservoir is managed by the BOR and used for the purpose of irrigation, flood control, recreation and is in the process of installing a hydropower facility. This area is important big game winter range for deer and elk. The fire burned within the Grouse Creek cattle allotment (270 head) eliminating one of the pastures.
3.	Emergency Rehabilitation Objective: 1. Reduce the fire induced sediment yield to Arrowrock Reservoir. 2. Revegetate slopes and restore longterm soil productivity. 3. Protect fisheries in Grouse Creek and Arrowrock Reservoir.
4.	Probability of Completing Treatment Prior to First Major Damage Producing Storm:
	Land 80 % Channel50 % Roads 100 % Other %
5.	Net Environmental Quality Benefit Index:
	[X] Significant [] Not Significant
6.	Net Social Well Being Benefit Index:
	[] Significant [X] Not Significant
7. 8. 9.	Benefit/Cost Ratio: 1.9:1 Net Benefits: \$ 47,432 Cost Effectiveness Index: [X] I. [] III. [] IV.

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

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

			NFS	NFS Lands			Other Lands	ands	All Lands
Line Items	Units Unit No.	Unit	No. of	FFF 092	Other \$	No. of	Federal\$	- F	Total
		Cost 	Cost Units 	₩.		Units		ა -	ςς.
	3	([ident.	()	ident.	identify	
(1)	(2)	(3)	(4)	(5)	(9)	(S)	(8)	(6)	
A. LAND									
a. Heli Seeding	Acres	5	1200	6,000					6,000
b. Contour discing	Acres	25	500	12,500					12,500
c. Seed Mix	Acres	18	1700	30,600					30,600
d.									
Ů	_								
B. CHANNELS									1
a. Opening water									
	Miles								
b. Stabilizing									
streambanks	Miles								
C. ROADS AND TRAILS									
a.									
b.									
۲.									
D. MAJOR STRUCTURES									
a. Preplanned -									
from Forest									
Plans									
E. EBAR Team	Total			3000					3000
E. TOTAL				\$52,100 \$	₩		₩.	₩.	\$52,100

6/11/92	Date	-	
/S/ Stephen P. Mealey/Jack Gollaher Acting for	Forest Supervisor (Signature)		

/S/ Regional Forester (Signature)

Date

NARRATIVE: Grouse Creek Fire

The fire was located directly above Arrowrock Reservoir which The Grouse Creek Fire burned 4,300 acres of which 3,455 acres are National intensity. The landtypes within the fire are highly erosive and there are totaly void of any protective vegetation. The area is also very valuable many old gully systems that were previously well vegetated which are now is an important irrigation and recreation storage facility. Due to the extremely droughty condition and strong winds the fire burned at high range and wildlife winter range. Forest Lands.

acres planned for contour discing (2-4 inches) to break up the hydrophobic soil layer. This will reduce the potential for flash floods as the result Proposed treatments include aerial seeding of 1200 acres. There are 500 of high intensity thunderstorms. The proposed seed mix consists of:

4.0 lbs/acre	3.0 lbs/acre	2.0 lbs/acre	1.0 lbs/acre	10 0 1bg/acre
Blue Bunch Wheatgrass	Orchardgrass	Smooth brome	Yellow clover	TOTAI,

EXAMINING IMPACTS OF MANAGEMENT ALTERNATIVES FOR AN EMERGENCY PROGRAM

	(Reference	FSH	2509.13)				
Fire Name					Da	of	Report
Grouse Creek					Ju	June 16, 19	1992
Α.	ENVIRONMENTAL	AL QUALITY	BENEFIT	INDEX			
	Weight		Without Treatment	With	Treatment	Diff	Difference
Environmental Factor	Factor		Weighted	Actual	Weighted	Actual	Weighted
(a)	(p)	(0)	(q)	(e)	(£)	(b)	(h)
1. Erosion and sediment *	10	7	20	1	10	1	10
2. Aesthetic land quality *							
3. Water quality *	4	7	æ		4	1	4
1	10	8	5.0		10	-	10
		1))	1) i) {
5. Wildlife habitat *	7	7	14		7	П	7
6. Fish habitat *	4	7	æ		4	Н	4
7. Other *Range		~~	12	——		т	9
		11111111		///////		11111111	
8. TOTAL *	41	7777777	82	///////	41	11111111	41
9. Average weighted index *			2.0				1.0
I Don't Don'	//////	///////	111111111	///////	1///////	////////	•
10. Net environmental quality benefit in	index* /////	WELL-BETNE		//////×	7777777	////////	1.0
	1 0	Witho	Treat	ا. ا	With Treatment	Diffe	Difference
Social Criteria	Factor	4	Weighted	Actual	Weighted	Actual	Weighted
(a) 1 Life health safety	(a)	(5)	B	<u>(</u>)	(1)	(F)	(11)
/==== /====							
2. Employment *							
3. Recreational opportunity *							
4. Economic stability *							
5. Income distribution *							

					_	
6. Preserve special sites *						
7. Other*						
	//////		1111111		11111111	-
8. TOTAL *	////// 0	0	1//////	0	1////////	0
	1111111 1111111		11111111		11111111	
9. Average weighted index *	///// ///////////	0	1//////	0	11/1/1///	0
·		1111111111	11111111	////////	11111111	
10. Net social well-being benefit index *		111111111	1///////	///////////////////////////////////////	1////////	0
	C. REMARKS					

.

D. EXPECTED DAMAGE REDUCTION BENEFIT SUMMARY

Note: At current Water Resources Council interest rate * N/A percent Not used because all impacts were assumed to occur during first year

	_		Damage	Damage Expected		
	Units of	Without	Treatment	With Tr	Treatment	Expected \$
Economic Benefit Indices	Measure	No. of	Present	No. of	Present	Damage
		Units	Value(\$)	Units	Value(\$)	Reduction
(a)	(p)	(c)	(q)	(e)	(£)	(д)
I. Watershed Impacts Sediments	///////////////////////////////////////	7//////	777777777	7777777	77777777	7//////////////////////////////////////
1 Downstream water storage *	м Д	100	5000	40	2000	3000
2. Sediment removal *	Cu. Yds.	1741	34825	969	13928	20897
3. Fish habitat and Riparian Resource	miles	2.1	4200	0.8	1600	2600
4. Water quality *						
II. Flood Water	///////////////////////////////////////	777777	1111111111	1111111	11111111	111111111111111111111111111111111111111
1. Land *						
2. Water Improvements *	. — —					
1	///////////////////////////////////////	///////		///////		
3. Subtotal, Watershed *	777777777		44025	///////	17528	26,497
III. Resource Related Impacts	///////////////////////////////////////	///////	1111111111	///////	////////	
		1890		1080		
1. Range *	AUM	@7yr	13230	@4yr	7560	5670
	Hunter Day	581		333		
2. Wildlife *	per Yr.	@7yr	17185	@4yr	9820	7365
000000000000000000000000000000000000000		0000	100		000	000
TTOE	act cs	4000	700,000	000	00010#	000700
4. Subtotal, Resource Related *			130,415		57,380	73,035
ther Impact	/////////	///////	///////////////////////////////////////	///////	7//////	111111111111111111111111111111111111111
1.						

///// 0 //////			//////		
* * **********************************	2. Subtotal, Other *	0 ////////////////////////////////////	1//////		0
* ////// 174,440 ////// 74,908		11111111111111111	1111111	_	
DAGNAGG B	V. TOTAL DOLLARS *	///////	///////	74,908	99,532
E. Merkhann		E. REMARKS		•	

Valued at \$50/AF; assumed to enter Arrowrock Reservoir Water storage: Valued at \$20/Cu. yd.; assumed to enter Arrowrock Reservoir Sediment removal:

Range AUM's valued at \$7/AUM

Sediment yield calculated from BOISED was increased by 25% due to BOISED using average runoff events and Wildlife valued at ELK Hunter Day= \$45; Deer Hunter Day=\$25; Upland Game Hunter Day=\$6

not from high intensity thunderstorms.

With BAR treatment 40% Soil Productivity was valued by looking at all the acres of high and half of the acres og moderate The cost of intensity fire (2000 acres) would lose enough soil to reduce the soil productivity. or 800 acres would need to be treated at a later time if a damaging storm occurred. restoration for the 800 acres would be \$50/acre.

Fish and Riparian habitat was valued at \$2000mile.

GROUSE CREEK FIRE EMERGENCY BURN REHABILITATION PROJECT

Contour Ripping Hydrophobic Soils

Description of work: Approximately 600 acres will be contoured ripped to a depth of 6 to 10 inches to reduce the hydrophobic soil layer as well as improving the water storage, increase infiltration, and prepare a seedbed for subsequent helicopter seeding. Work will be performed on slopes from 0% up to 40%. There is little remaining vegetation except for scattered brush and there is mainly a sandy soil surface with little rock present. Contour ripping will be spaced evenly the same distance as between the rippers.

Location: The 600 acres are scattered throughout the Grouse Creek Fire area, (see attached map). There will be up to 6 miles of walking the cat to some of the work sites. The 500 acres is comprised of several areas in size from 40 acres to 2 acres most of which are within 1/2 mile of each other. The majority of the area is on the upper east and west ridges of the fire and adjacent to Grouse Creek in the bottom. The crawler tractors will be unloaded from the lowboys at Three Point Mountain Summit and then walked to the various sites. Support vehicles, (pickup trucks), may drive out the jeep roads to the ridgelines on the east and west side of the fire and up the bottom of Grouse Creek via Arrowrock Dam to the mouth of Little Grouse Creek.

Equipment Specifications: Crawler Tractor, with five hydraulic rippers. Six way dozer with minimum of 85 horsepower. Appropriate safety equipment such as roll cab, approved spark arrester, fire extinguisher are required. Anticipate the need for two crawler tractors to complete the work in the prescribed contract duration. Contractor to provide for all transport of equipment, operators, diesel and any other support needs to and from the project area. Contractor has 48 hours to replace or repair any equipment that is not functioning.

Method of Measurement - completed work will be mapped on aerial photos and topographic maps 1:24,000 scale with acreage calculations determined from maps, to the nearest acre.

Special Areas: There will be some special archeological sites that will be flagged and must be avoided from any disturbance for their protection.

Bids to be based on a per acre basis which will include all cost of equipment, operators, support vehicles, transport of equipment and supplies.

LIST OF INTERESTED PROSEPECTIVE BIDDERS

Tom Owens Owens Reclamation PO Box Z Twin Falls, ID 83303 208-734-9784

Moe Inama
PO Box 1095
Cascade, ID 83611
208-462-2128 Garden Valley, ID PO Box 751, Garden Valley, 83622
208-864-2128 Atlanta, ID

Jack Roberson Roberson Construction PO Box 1153 Homedale, ID 83628 208-337-3461

Steve Dobson PO Box 366 Horseshoe Bend, 83629 208-793-2694

Grouse Creek Fire BAER Seed Specifications

Approximately 2,000 acres will be seeded by helicopter on the Grouse Creek Fire. The following is the seed mixture which will be applied at a rate of 10.25 lbs per acre within the fire area. Where possible we want all seed certified as well as tested for purity and germination at a State of Idaho, Oregon or Washington approved seed facility. The seed will then be mixed and put into 50 lbs bags and delivered and unloaded at the Lucky Peak Tree Nursery tree cooler. Payment for seed will be on the basis of Pure Live Seed (PLS).

Species	Common Name	lbs & lbs/ac	Purity %	<u>Germination %</u>
Ag sp	Bluebunch Wheatgrass (secar)	8,000 4lbs/ac		
Ag sm	Western Weatgrass	6,000 3lbs/ac		
Si hy	Squirrel Tail	4,000 2lbs/ac		
Da gl	Orchard Grass (paiute)	2,000 1lbs/ac		
	Western Yarrow	500 1/4lbs/ac 20,500 lbs	2	