



United States
Department of
Agriculture

Forest
Service

Idaho Panhandle
National Forests

1201 Ironwood Drive
Coeur d'Alene, ID 83814

Reply to: 5100 Fire Management
2500 Watershed

Date: January 7, 1987

Subject: Fire Rehabilitation Accomplishment Report-Mary Mix 2

To: Regional Forester

The Mary Mix 2 fire consumed 1,430 acres of forestland in sections 21, 22, 23, 26, 27, 28, T42N, R3E, BM. The three major landowners include USFS, 635 acres; Idaho Dept. of Lands, 258 acres; and Potlatch Corp., 537 acres.

The surface soil moisture and duff moistures at the time of the fire were very low, producing a hot burn situation which consumed the entire litter and humus layers and a good portion of the surface mineral soil organics. Approximately 70 percent of the total burned acres were virtually 100 percent hydrophobic after the fire. Because of this widespread hydrophobic soil condition the primary rehabilitation objective was to control surface soil erosion, thereby maintaining water quality and fisheries habitat in Floodwood Creek, Breakfast Creek and Dworshak Reservoir.

The rehabilitation measures implemented were:

1. Hillslope Log Erosion Barriers - used to reduce the slope length factor and retain soil on the slopes in critical areas.
2. Bale Structures - installed in 1st and 2nd order streams as sediment traps.
3. Seeding along Streams - a 100 ft. strip of ground was seeded on either side of all streams to provide a sediment filter mat. The fire destroyed all riparian vegetation along most streams.
4. Equipment Work - many non-suppression roads existed which needed water bars, culvert work and rolling dips.

A funding breakdown for the above rehabilitation work is as follows:

1. FFF 092 Dollars Allocated - \$18,803. Amount actually spent \$17,451.64.
2. SCS Emergency Watershed Protection Dollars - This is a 20/80 cost share program with the Idaho Dept. of Lands share being \$1,953 and Potlatch Corp. share being \$4,091 for a total of \$6,044 from





non-federal sources. SCS Emergency Dollars allocated - \$24,500.
Amount actually spent \$23,610.78.

The cost of the total rehabilitation project was \$47,106.42.

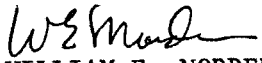
On the ground rehabilitation work started September 14, 1986 and was completed November 13, 1986.

As of October 15, 1986, approximately 60 percent of the severely burned areas were still in a hydrophobic condition even after the occurrence of numerous light to moderate intensity storm systems which moved through the area.

An evaluation field trip will be scheduled next summer to evaluate the burn area and rehabilitation measures.

If further information is needed please contact:

Jerry Niehoff
Soil Scientist
IPNF


WILLIAM E. MORDEN
Forest Supervisor

CC: Jerry Niehoff
Dave Aldrich
Herb Holdorf





BURNED AREA REPORT

DATE:

PART I - TYPE OF REQUEST

1. (List as appropriate) A. Funding Request B. Accomplishment report
2. A. Initial B. Interim C. Final

PART II - FIRE LOCATION

1. Fire name: Mary Mix 2
2. Supervisors Fire Number: 770311
3. State: ID
4. County: Shoshone
5. Region: 01
6. Forest: Idaho Panhandle N.F.
7. Ranger District: St. Maries
8. Date Started: 8-18-86
9. Date Controlled: 8-27-86
10. Estimated suppression costs:
11. Fire suppression damage repaired by CPTPA:
 - a. 66. . miles of firelines waterbarred
 - b. 120 . acres of firelines seeded
 - c. . . . other (identify) _____
12. Fire intensity % low % medium % high

PART III - NATIONAL FOREST SYSTEM PROBLEM INVENTORY

1. Watershed Number:
2. NFS acres burned:
3. Water repellant soil: % NFS acres burned
4. Vegetation types:
5. Geologic types:
6. Soil erosion hazard rating: % low % medium % high
7. Erosion potential: cu.yd./sq.mi.
8. Miles stream channel by regional order or class:
9. Miles FS trails:
10. Miles FS roads by maintenance level:
 - a. (level I) b. (level II) c. (level III, IV, V)





PART IV

ELIGIBLE EMERGENCY REHABILITATION MEASURES OR TREATMENTS AND SOURCE OF FUNDS

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

	<u>NFS LANDS</u>				<u>OTHER LAND</u>					
	Units	Unit	units	FFF	092	other	units	federal	non-fed	total \$
	cost	#	\$	\$	\$	#	\$	\$		
A. LAND	.	.	.	.	.	.	.	SCS	.	.
SEEDING	Acres	. 32	. 70	.1908	.50.	. 130	.4586	.81.	.	6,495.31
HLEB's	Barrier	128.	40	.5447	.64.	. 15	.1581	.78.	.	7,029.42
				7356.14						13,524.73
B. CHANNELS	.	.	.	.	.	.	.	.	.	.
opening	.	.	.	.	.	.	.	.	.	.
water	.	.	.	.	.	.	.	.	.	.
courses	Miles	.	.	.	.	.	.	.	.	.
BS's	Struc..	382.	21	.8873	.00.	. 48	15506	.02.	1953.00.	26,332.02
stabilizing	.	.	.	.	.	.	.	.	.	.
streambanks	Miles	.	.	.	.	.	.	.	.	.

C. ROADS & TRAILS	Miles	.	.	.	.	.	.	.	.	.
EQUIP. WORK	Hr.	. 55	.	.1222	.50.	. 132	.1936	.17.	4091.00.	7249.67
MAJOR	.	.	.	.	.	.	.	.	.	.
STRUCTURES	Each	.	.	.	.	.	.	.	.	.

E TOTAL	.	.	.	17,451.64	.	.	23,610.78	6044.00	47,106.42	

PART VII - APPROVALS

Forest Supervisor approval and date: /s/
 Regional Forester approval and date: /s/



United States Forest Idaho Panhandle 1201 Ironwood Drive
Department of Service National Forests Coeur d'Alene, ID 83814
Agriculture

Reply to: 5100

Date: January 6, 1987

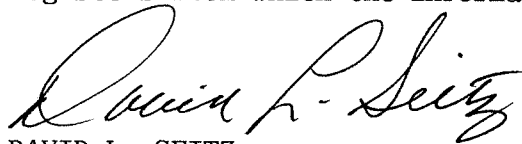
Subject: Merry Mix Fire Rehabilitation Costs

To: Jerry Niehoff

Following is a listing by management code of the costs expended for the Merry Mix Fire Rehabilitation:

219141 -	\$23610.78
290920 -	<u>17451.64</u>
Total costs	\$41062.42

Attached is a list of the monthly expenditures and the transaction registers from which the information was extracted.



DAVID L. SEITZ
Budget and Accounting Officer

