USDA Forest Service

BURNED AREA REPORT

Specific instructions for use of this form are attached. Overall instructions are in FSM 2523 and the Emergency Wildfire Rehabilitation Handbook (FSH 2509.13).

1. Fire name	2. Request					3. Date of report
Wilson Creek	☐ Initial	☒ Interim	☐ Final	Accomplishment report	☐ FFF	☐ Other	August 24, 1977

4. State	5. County	6. Congressional District	7. Region	8. Forest	9. Ranger District
Idaho	Idaho	1	1	Clearwater	Lochsa

10. Supervisor fire no.	11. Date fire started	12. Date controlled	13. Estimated suppression cost
075	17 Aug. 1977	21 Aug. 1977	$250,000

14. Fire suppression damages repaired with FFF 102 funds
15 mi. firelines waterbarred 0 acres firelines seeded

15. Fuel type fire intensity
20 % light 60 % moderate 20 % extreme

NATIONAL FOREST SYSTEM PROBLEM INVENTORY

16. Watershed no.	17. NFS acres burned	18. Water repellant soil
16-14-25-01-08	288	5-10 % of NFS area burned

19. Vegetation types
Total NFS: GS/PAMY (50%) (50%) WRC/PAMY (30%) (25%) DF/PHMA (20%) (25%)

20. Geologic types
Basalt, Gniess, Schist

21. Soil erosion hazard rating	22. Erosion potential	23. Storm peak potential
Mod to high (6)	74 cu. yds./sq. mi.	7.1 cu. ft./sec./sq. mi.

24. Miles of stream channels by Regional order or classes
1-5.3 miles 2 - 2.1 miles 3 - 0.8 miles

25. Miles of Forest Service roads by maintenance levels
5.8 mi. level I mi. level II 2.5 mi. levels III, IV, V

CLIMATIC DATA

26. Annual precipitation	27. Design storm rainfall during 6 hour period
35 inches	.9 inches 2 yr. frequency 1.3 inches 10 yr. frequency
28. Annual runoff	29. Maximum 30 minute intensity storm
12 inches	.4 inches 2 yr. frequency .5 inches 10 yr. frequency

SUMMARY OF SURVEY AND ANALYSIS

30. Skills represented on burned area survey team (check)
☒ Hydrology ☒ Soils ☐ Geology ☐ Range ☒ Timber ☒ Wildlife ☐ Fire Management
☐ Engineering ☐ Contracting ☒ Local Management ☐ Research

31. Describe emergency
1. Surface soil erosion
2. Fire line and road prism erosion
3. Stream channel and offsite water quality degradation

32. Emergency rehabilitation objective
1. Stabilize actual and potential soil erosion hazard
2. Maintain water quality and channel condition
3. Protect transportation system

33. Personnel needs for rehabilitation project on NFS lands
man-years reassigned for $ man-years new hires for $

34. Probability of completing treatment prior to first major damage-producing storm
Land 70 % Channel 70 % Roads 70 % Other %

35. Net environmental quality benefit index	36. Net social wellbeing benefit index
☒ Significant ☐ Not Significant	☐ Significant ☒ Not Significant
37. Benefit/cost ratio 3.5	38. Cost effectiveness index (check one) ☐ I ☒ II ☐ III ☐ IV

39. Forest Supervisor approval & date	Regional Forester approval & date	Date funding approved in WO
[signature] 10/12/77	[signature] 10/19/77	

ON-SITE AND OFF-SITE DEVELOPMENTS SUBJECT TO HAZARDS FROM FLOODS, FLOATING DEBRIS, EROSION, OR SEDIMENT BECAUSE A WATERSHED IS IMPAIRED BY WILDFIRE. (Do not include value of resources damaged or destroyed by the fire as reported on Form 5100-29.)

	No. of units	Estimated value (dollars)
40. Community and urban development	people 30	250,000
41. Municipal water supply	people served	
42. Transportation systems	miles 9	670,000
43. Water distribution systems (irrigation)	miles 1	5,000
44. Agricultural development (crops, facilities)	acres 20	20,000
45. Industrial development (dams, power, manufacturing)	number	
46. Power and communication lines	miles 4	4,000
47. Recreation development	PAOT	
48. Fish habitat	miles 7	17,000
49. Other (specify)		
TOTAL HAZARD POTENTIAL		961,000

SUMMARY OF EMERGENCY REHABILITATION NEEDS BY LAND OWNERSHIP

Land ownership	50. Acres burned	51. Emergency rehab needs				Source of emergency rehabilitation funds for needed work (dollars)					
		Land acres	Channel miles	Road miles	Other	52 FFF	53 216	54 FR&T	55 Other Fed. (Name)	56 Non-Fed. (Name)	57 Total
FEDERAL NFS	288										
Other (name)											
Subtotal	368	58		8.3	4.0	5557					5557
NON-FEDERAL State and county											
Private											
Indian											
Subtotal											
TOTAL						5557					~~5557~~ 5600

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.)

			NFS Lands			Other Lands			Total
	Units	Unit cost	No. of units NFS	FFF 094 dollars	Other dollars (Name)	No. of units other	Federal dollars (Name)	Non-Fed. dollars (Name)	dollars all lands
58. LAND									
Seeding	Acres								
Rebuild Protection Boundary Fence *	miles	2000	2	4000					4000
Additional Materials (Seed & Labor)				577					577
59. CHANNELS									
Opening water courses	Miles	245	4	980					980
Stabilizing streambanks	Miles								
60. ROADS									
Ditch cleaning	Miles								
61. MAJOR STRUCTURES									
Preplanned structures from Unit Plans	Each								
		TOTAL		5557					5557

* cost of temporary fence. Forest will supply necessary additional funds to build a permanent structure.

This request is for additional funds to a prior FFF request to meet needs identified following an intense rain event that immediately followed the fire. The fence was identified earlier but was omitted from the original request.

Analysis sections of this report are for the total project.
Funds requested in this report are $5557.

62. ECONOMIC BENEFITS SUMMARY WITH 6 1/8 PERCENT INTEREST RATE
5 - Year Life

ECONOMIC CRITERIA	Units of measure	Without treatment		With treatment		Difference in present value $
		No. of units	Present value $	No. of units	Present value $	
SEDIMENTATION IMPACTS						
Downstream storage						
Sediment removal						
Fish habitat	Angler Days	31875	235720	37500	277320	41600
Water quality	Acre-Ft	2674	4170	9220	12400	8230
FLOOD WATER DAMAGE						
Land						
Property			0		9484	9484
OTHER						
TOTAL DOLLARS						59314

63. ENVIRONMENTAL QUALITY BENEFIT INDEX

ENVIRONMENTAL CRITERIA	Weight Factor	Without treatment		With treatment		Difference	
		Actual	Weighted	Actual	Weighted	Actual	Weighted
Erosion and sediment	10	3	30	2	20	1	10
Aesthetic land quality	4	2	8	1	4	1	4
Water quality	10	3	30	1	10	2	20
Ecological benefits	4	1	4	1	4	0	0
Fish & wildlife habitat	6	2	12	1	6	1	6
Other							
TOTAL	34		84		44		40
Average weighted index			2.5		1.3		1.2
Net environmental quality benefit index							5

64. SOCIAL WELLBEING BENEFIT INDEX

SOCIAL CRITERIA	Weight Factor	Without treatment		With treatment		Difference	
		Actual	Weighted	Actual	Weighted	Actual	Weighted
Life, health, safety	8	2	16	1	8	1	8
Employment	1	1	1	1	1	0	0
Recreational opportunity	6	2	12	1	6	1	6
Economic stability	1	1	1	1	1	0	0
Income distribution	1	1	1	1	1	0	0
Preserve special sites	1	1	1	1	1	0	0
Other							
TOTAL	18		32		18		14
Average weighted index			1.8		1.0		0.8
Net social wellbeing benefit index							NS