Detailed instructions for use of this form are in the Burned-Area Emergency  Rehabilitation Handbook (FSH 2509 13) Section (1)
Rehabilitation Handbook (FSH 2509.13), Section 41.
1. Fire name 2 C. Donney, Section 41.
Wallace   Manual Ministral Linterim Final 3. Date of report
14 Sees 15 C (Other) 7/13/79
Assistant J. County   6. Congressional   7. Region   8 Forest   6. P.
Mistrice 3 1 3 1 miles bistrice
10. Supervisor   11. Date fire started   12. Date controlled   13.
10. Supervisor 11. Date fire started 12. Date controlled 13. Estimated suppression 7/7/79 7/8/79
14. Fire suppression damages repaired with FFF 102 funds
1/2 mi. firelines wateriagned 10
10
10 7 low 10 7 medium 80 7 high
NATIONAL FOREST CUSTOM
16. Watershed no. 17. NES acres burned 18
11c Waler renallant
19. Vegetation types 5 % of NFS area burned
Ponderosa pine with scattered pinyon-juniper
20. Geologic types
basalts, cinder cones
) 11 ( ) .
21. Soil erosion hazard rating 22. Erosion potential 23. Flood peak potagoid
med. I high   OOUU
24. Miles of stream channels by Regional order or classes
Order 1 - 1 mile
25. Miles of Forest Samuel
25. Miles of Forest Service roads and trails by maintenance levels  mi. level I rds. mi. level II rds I 25 mi.
inc. level il rds 1.25 mi lavale trr
mi. trails
CLIMATIC DATA
40. Annual precipitation 127 Design and The Control of the Control
19 inches 0 8 inches 1 hour period
an inches 2 Vi Francianos 1.4 2 1.
The state of the s
inches 10 vr. fraguency 1.1 inches 10 vr. fraguency
30. Skills Terreserved on by SURVEY AND ANALYSIS
The state of the s
Management   Man
France Wildlife Fire Yange
I Engineering Contracting X Local Management Research Other  31. Describe emergency The high intensity of this fire Willlam Willed
31. Describe emergency The high intensity of this fire killed approximately 80% to 90% of all vegetation. Resultant denuded area needs quick proximately 80%
to 90% of all vegetation. Resultant denuded area needs quick establishment
of vegetative cover to have testificant denuded area needs quick establishment
of vegetative cover to best protect on site productivity.
32. Emergency rehabilitation objective Establish a protection
soon as practical to minimize the loss of soil productivity.
productivity.
33. Personnel needs for rehabilitation project on NFS lands  N/A man-years reassigned for \$ N/A
N/A needs for renabilitation project on NFS lands
N/A man-years reassigned for S  N/A man-years new hires for S
34. Probability of completing treatment orients for S
34. Probability of completing treatment prior to first major damage-producing storm  Land 70 2 Channel 50 % Roads 70 Others
35. Net environmental Roads 7 Other 7
35. Net environmental quality benefit index 36. Net social wellbeing benefit index  [X]Significant [Not Significant [This index]]
XSignificant Not Significant Significant Significant Not Significant Not Significant
Net benefits 138 Cost afficiant 1 Not Significant
67010
39, Forest Supervisor approval a design [MII MIII MIII
39. Forest Supervisor approval & date Regional Forester approval & date Date funding
Welliam Aclines 7/13/79 Regional Forester approval & date Date funding approved in 30

BURNED AREA REPORT

Fire Name Date of Report ON-SITE AND OFF-SITE DEVELOPMENTS SUBJECT TO HAZARDS FROM FLOODS, FLOATING DESRIS.

EROSION, OR SEDIMENT BECAUSE A WATERSHED IS IMPAIRED BY value of resources damaged or destroyed by the fire as a		
	No. of units	Estimated va (dollars)
40. Community and urban development	people N/A	
41. Municipal and domestic water supply	people served N/A-	
42. Transportation systems	miles N/A	
43. Water distribution systems (irrigation)	miles N/A	
44. Agricultural development (crops, facilities)	acres N/A	
45. Industrial development (dams, power, manufacturing)	number N/A	
46. Power and communication lines	miles N/A	
47. Recreation development	PAOT N/A	·
48. Fish habitat	miles N/A	
49. Other (specify)		

NARRATIVE (Optional. May be left out or expanded on additional sheets as needed

TOTAL HAZARD POTENTIAL (Indicates values threatened by design storm. Does not enter into the R/C.)

Date of Report

		SUMMAKY	AKY OF EME	<b>LERGENCY</b>	REHABIL	RCENCY REHABILITATION NEEDS BY LAND OWNERSHIP	NEEDS BY	LAND OW	NERSHIP			
	50.	51. Em	Emergency rehabilitation needs	rehabili eds	tation	Source of		ency reh	abilitati (dollars)	ton fund	s for ne	emergency rehabilitation funds for needed work (dollars)
Land ownership	Acres	,		Road		52. FI	414	53.	54.	55.	56.	57.
	burned	Land (acres)	Channel (miles)	and Trail (miles)	Other	760	102	216	FR&T	Other Federal (name)	Non- Federal (name)	Total
FEDERAL NFS	32.7	290	.5			6800						6800
Other (name)				-								
Subtotal Pederal												
NOM-PEDERAL State & county												
Indian reservation								·				
Private		baq.										
Subtotal Non-Pederal	·											
TOTAL	327	290	ις			6800						0089

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Fire Name

Date of Report

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.)

1s not to s	T	1		FS Lands		0	ther Land	de	Total
		1.,		FFF 094				Non-Fed.	dollars
•		Unit		dollars			dollars		all
	Units	COST		GOLIGIS				(Name)	lands
58. <u>LAND</u>		<del> </del> '	NFS	<u> </u>	(Name)	otner	(Name)	(Same)	lands
Seeding	Acres	\$20.00	290	5800					5800
						•			
		14							
							¥		
					·			·	
59. CHANNELS Opening water courses	Miles								·
Stabilizing streambanks		52000.0	0 .5	1000					1000
·			:						
								,	
					. •				
60. ROADS & TRAILS	~				·				
			•						
·			*						e , especial e l'
61. MAJOR STRUCTURES Preplanned — from Forest Plans	Each					,		•	
		TOTA	AL	6800				ī	6800

Fire Name

## EXAMINING IMPACTS OF MANAGEMENT ALTERNATIVES FOR AN EMERGENCY PROGRAM

62. EXPECTED DAMAGE REDUCTION BENEFIT SUMMARY at current Water Resources Council interest rate of 6.875percent

	T					
Economic benefit indices	Units of	Without :		With tre		Expected
benefit indices	measure	No. of units	Present value \$	No. of units		\$ damage reduction
WATERSHED IMPACTS SEDIMENTS Downstream water storage						
Sediment removal	•	and the second				
Fish habitat					·	
Water quality						
FLOOD WATER Land on site productivi	ty yd3	7366	3146 <b>3</b>	5568	23944	7519
Improvements						
Subtotal watershed						
RESOURCE RELATED IMPACTS					·	
Range						
Wildlife and recreation						
Timber	·					·
Subtotal resource related						
OTHER IMPACTS				·		·
Subtotal other						
Total dollars			31463		23944	7519

## EXAMINING IMPACTS OF MANAGEMENT ALTERNATIVES FOR AN EMERGENCY PROGRAM

63. (Table 4)	ENVIR	ONMENTAL	QUALITY B	ENEFIT I	NDEX		
ENVIRONMENTAL CRITERIA	Weight	Without	treatment	With t	reatment	Diffe	rence
	Factor	Actual	Weighted	Actual.	Weighted	Actual	Weighted
Erosion and sediment	2.	1	2	1	2	0	0
Aesthetic land quality	3	1	3	7	3	0	0
Water quality			·				
Site productivity	10	2	20	1	10	1	10
Wildlife habitat	1	1	1	0	0	1	1
Fish habitat		10.7	•				
Other	·	N. et al.					
TOTAL	16		26		15		11
Average weighted index			1.6		.9		.7
Net environmental quality benefit index							S

		****		• .		4	• * •
64. (Table 5)	SOC	IAL WELL	-BEING BEN	EFIT IND	EX		
SOCIAL CRITERIA	Weight	Without	treatment	With t	reatment	Differ	ence
COULTE CRITERIA	Factor	Actual	Weighted	Actual	Weighted		Weighted
Life, health, safety						·	
Employment	•			}			
Recreational opportunity .	2	0	0	0	0	0	0
Economic stability							
Income distribution							
Preserve special sites							·
Other							
TOTAL	2		0		0		0
Average weighted index			0		0		0
Net social well-being benefit index							NS

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## SOILS OF THE WALLACE FIRE

Typically the soils of the Wallace Fire area are clayey textured derived from basalt. The fine textured clays occur at an average depth of five inches below the soils surface; although, in some areas they have already been exposed to the soils surface. These areas show very little establishment of vegetation and generally show an increase in erosion pavement.

Though the potential soils loss is 7.2 tons/acre which is very low, further erosion could either bring these clays closer to the soil surface or expose them in some areas. Consequently, soils could convert from Typic to Vertic intergrades of Eutroboralfs. Vegetational establishment could be more difficult to achieve because of this resultant decrease in soil productivity.

Finally, the Wallace Fire occurred in an area of Ponderosa Pine-Pinyon Pine. The micro climate of the soils surface has been significantly changed as a result of the complete destruction of canopy cover and vegetational ground cover. This change of becoming drier and warmer could have a severe affect on the success of Ponderosa Pine seedling establishment. A good stand of grass would improve the micro-climate by providing shade and cover at the soils surface. Also, the process of nutrient cycling can begin, thus improving soil fertility and tilth. This, in turn would improve the success of establishing Ponderosa Pine seedlings.

				·		
n						·