CLEVELAND NF

REPLY TO:

2520 Watershed Portection and Management

December 12, 1980

SUBJECT:

Turner, Lakeland and Indian Fire Interim Burned Area Reports

Regional Forester

TO:



Additional funding for channel clearing on the three fires is requested in the enclosed Burned Area Reports. Initial estimates of the cost for channel work were low. We now expect our costs to be over \$2,500 per mile, and request an additional \$23,700 for the three fires.

Our initial request for FFF financing of the total cost of the Rehabilitation Team for the Indian and Lakeland fires has been reduced to \$8,300 to reflect only the costs of overtime, per diem and travel needed to complete the report.

A description of road and trail work to be done on the Lakeland and Indian fires is also enclosed. All road and trail work will be directed toward control of the expected increase in rumoff and debris from the burned area. Emergency rehabilitation funds will not be used for routine maintenance of roads and trails, such as grading and shaping of road surfaces.

RALPH C. CISCO

Forest Supervisor

Enclosures

F.S. R.5

RECEIVED

DEC 15 1980

WATERSHED

MGMT. STAFF



Emergency Rehab Work - Roads and Trails Indian and Lakeland Fires

I. Description of emergency work:

Roads - consists of installation of additional overside drains with flumes, additional culverts, and construction of debris catchments for protection of existing drainage structures due to additional anticipated runoff from the burned area (see attached design sketches); 52 miles.

Trails - consists of construction of additional drainage dips and water bars to handle the anticipated increased runoff from the burned area; 30 miles.

II. Estimate of costs:

Roads -

Equipment - backhoe/front end loader, dump truck, 2-6 packs - ranger pick up trucks, 2 stakeside trucks and 1 water truck

Lakeland Fire - \$ 720 Indian Fire - \$3280 \$4000

Material - overside drains and flumes, sand bags, fence posts and 36" high chain link fence

Lakeland Fire - \$ 3560 Indian Fire - \$16,750 \$19,750

Labor - 19 men for 6 weeks (10 hr/day)

Lakeland Fire - \$ 3060

Indian Fire - \$13,940

\$17,000

Trails -

Equipment - Lakeland Fire \$ 120
Indian Fire \$1080
\$1200

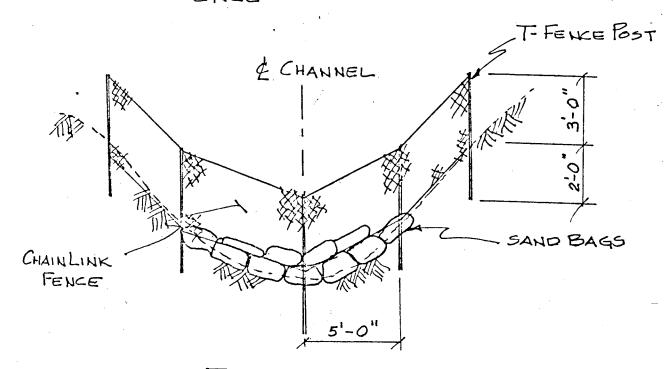
Labor - Lakeland Fire - \$ 335 Indian Fire - \$3015 \$3350

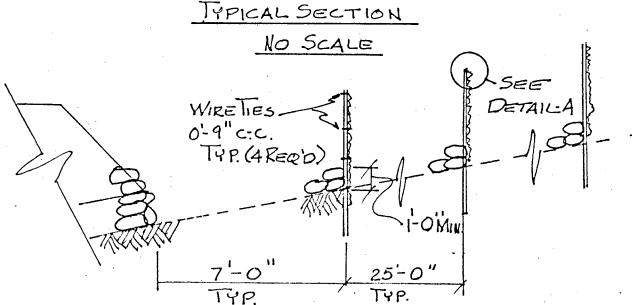
Contingency funds: Lakeland Fire - \$2250 Indian Fire - \$6000

Total funds required: Lakeland Fire - \$10,000 Indian Fire - \$43,550

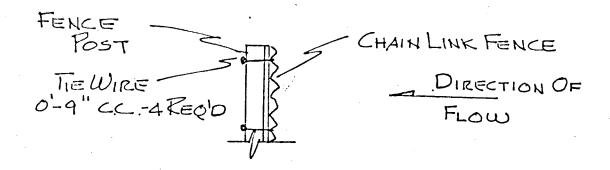
III. The emergency rehab funds are needed for protection of existing facilities (roads and trails) and are not intended for use to perform routine maintenance of those facilities.

RICHARD A. MOLKENBUR Assistant Forest Engineer DEBRIS CATCHMENT- CHAINLINK FENCE 1 Z RA.MOLICENB 12/10/80

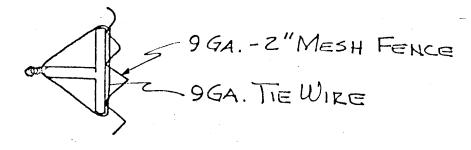




PROFILE NO SCALE



DETAIL A - ELEVATION NO SCALE



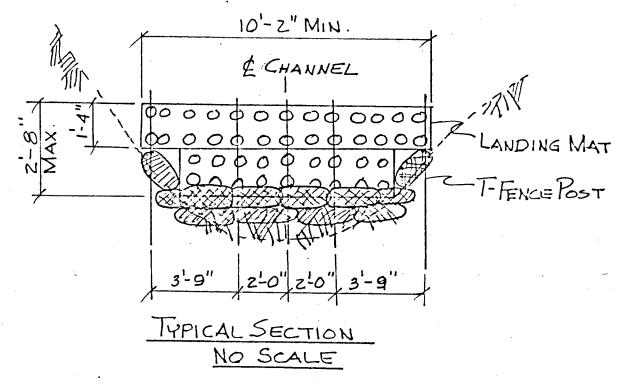
DETAILA-PLAN No SKALE

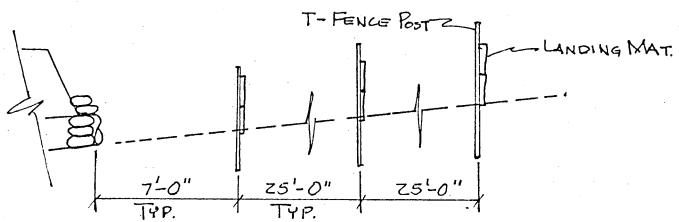
GENERAL NOTES

- 1.) THE NUMBER OF 5 FT FENCE PANELS CROSSING THE DRAINAGE IS VARIABLE DEPENDING UPON WIDTH & CROSS SLOPE
- Z) THE NUMBER OF DEBRIS CATCHMENTS PER DRAINAGE IS VARIABLE DEPENDING UPON LENGTH OF DRAIN-AGE & AMOUNT OF DEBRIS ANTICIPATED.
- 3.) THE SANDBAGS SHOULD BE PLACED IN EXPECTED IMPACT AREAS. & AROUND CULYERT INLETS

R.A. MOLKENBU

DEBRIS CATCHMENT-LANDING MAT





PROFILE No SCALE

GENERAL NOTES

- 1) LANDING MAT SHOULD BE PLACE Z-HIGH & TIED TO FENCE POSTS W/ TIE WIRE
- Z.) FENCE POSTS SHOULD BE DRIVEN Z FEET INTO GROUND & PLACED ON Z'C-C. IN IMPACT AREA
- 3.) SAND BAGS SHOULD BE PLACED IN EXPECTED IMPACT AREAS & AROUND CULVERT INLETS.

BURNED AREA REPORT

Page 1

Detailed instructions for use of the s
Detailed instructions for use of this form are in the Burned-Area Emergency 1. Fire name 1. C. Perer 1. D. Perer
1. Fire name 12 December 12
Lakeland Accorded Minterim Final 3. Date of record
1 9. State 15 County 16 0
Ca. Riverside 7. Region 8. Forest 19. Ranger Discord
10. Supervisor 11. Date fire started 12. Date controlled 13. Fortunation
10. Supervisor 11. Date fire started 12. Date controlled 13. Estimated suppression damages repaired with FFF 102 funds
mi. firelines waterbarred
mi. firelines waterbarred acres firelines seeded
7 1~
The state of the s
NATIONAL FOREST SYSTEM PROBLEM INVENTORY
17. Ars acres burned 18. Water repellant soil
19. Vegetation types % of NFS area burned
3,723
20. Geologic types
21. Soil erosion beauty
21. Soil erosion hazard rating 22. Erosion potential 23. Flood peak potential
7 low 7 med. 7 high cu. yds./sq. mi. 23. Flood peak potential cu. ft./sec./sq. m:
- Classes
25. Miles of Forest Service roads and trails by maintenance level;
mi. level I rds. mi. level II rds mi level rry
mi. level I rds. mi. level II rds. mi. levels III, IV. V rds. mi. trai:
CLIMATIC DATA
. Annual precipitation 27. Design storm rainfall during
Inches 2 VI. ITEQUENCY inches 10 c
29. Maximum 30 minute intensity storm
inches inches 2 yr. frequency inches 10 vr. frequency
SUMMARY OF SURVEY AND ANALYSIS
30. Skills represented on burned area survey team (check)
Geology Range Timber Wildlife Fire Management
31. Describe emergency Docar Management Research Other
32 Francis make 11
32. Emergency rehabilitation objective
33. Personnel mode for all live
33. Personnel needs for rehabilitation project on NFS lands
man-years reassigned for S man-years new hires for S
Land 75 % Channel 75 % Posts 60 %
35. Net environmental quality benefit index 36. Net social wellbains benefit index
Net benefits 138 Cost association
\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
39. Forest Supervisor approval & date Regional Forester approval & date Date funding
approved in Wi
14/48.

USDA-Forest Service

Fire Name Lakeland

BURNED ARÈA REPORT

Date of Report ' 12/12/80 ·

Page 3

		T			· 				-	P	age 3
	eeded vor	57.	l Total	21,720						1/10	23,430
	Source of emergency rehabilitation funds for needed work (dollars)	56.	Non- Federal (name)						(CDF)	550	855
SUMMARY OF EMERGENCY REHABILITATION NEEDS BY LAND OWNERSHIP		55.	Other Federal (name)						(\$0\$)	660	855
		54.	FRGT	4250							4250
	gency re	53.	216								
NEEDS B	of emer	FFF	102						·		
ITATION	Source	52.	760	17,470							17,470
(REHABI	Emergency rehabilitation needs		Other .								
MERGENC		Road									
IARY OF E	ergency		Channel (miles)	5	,						
SUM	51. Em		Land (acres)	554				,	362		
	50.	50. Acres burned		0049					1,120		
		Land ownership		FEDERAL NFS	Other (name)	Subtotal Federal	NON-FEDERAL State & county	Indlan reservation	Private	Subtotal Non-Federal	TOTAL

T 2500-8 (7/78)

ELIGIBLE EMERGENCY REHABILITATION MEASURES OR TREATMENTS AND SOURCE OF FUNDS is not to solve watershed problems that the promptly following a wildfire and

is not to solve watershed problems that existed prior to the wildfire.)								d i	
	!	1		ro Lands		0	ther Land	ds	Total
58. <u>LAND</u>	Units	Unit	No. of units NFS	FFF 094 dollars	Other dollars (Name)	units	dollars	Non-Fed. dollars (Name)	dollars all
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									W.
			·						
									1.8
59. <u>CHANNELS</u> Opening water courses	Miles	2500	2	5000	·		·	· · · · · · · · · · · · · · · · · · ·	
Stabilizing streambanks	Miles			3000			·	·	5000
	·		, .						
						·			
60. ROADS & TRAILS									And Age
FR&T Repair	Miles	940	10	9,400	3,800				13,200
Trails	Miles	150	3	450	450 ;			·	900
									300
									सी त्र ा
61. MAJOR				·					
STRUCTURES Preplanned from Forest Plans	Each				-				in the second
110115	Dacii	TOTA	IL	17,470	4,250		855	855	23,430

USDA Forest Service

BURNED AREA REPORT

Pa	26	1

Rehabilitation Handh	ook (Ech seot	this form are	in the Burne	d-Area Emer	gency.	
Rehabilitation Handb	· Request	Initial	41. % Interim	F(1) 2		
Indian	Accompli	shment report		Corporation,	Date of rep 12/12/80	POTE
4. State 5. County	6. Cong	ressional 7.	Region 8.	Forest 19	Ranger Di	
CA Rivers./O	rangel Dist:	rice1:38:1:0	ت ا راء ،	- I	m	. N-
10. Supervisor 11.	Date fire s	tarted 12. Da	te controlle	d 13. Esti	mated supp	ressi
	LL/ <i>21</i> 1/ CU	1 127	6780	cost	\$ 4,000,00	0 -
14. Fire suppression	damages repa	aired with FFF	102 funds			- 19 ¹⁸ 11 st
15. Fire intensity	HES WALELDAY	red acr	es firelines	seeded		
7. low	% medium	% hig	·h			
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16. Watershed no.	17. NFS acr		18. Water r		oil	
10	<u> </u>			f NFS area		
19. Vegetation types	i					a artist till g
20. Geologic types						
. Geologic types	÷		*			
21. Soil erosion haz	ard rating	22 Froston no	tential	122 77 .		
Z low Z med	d. 7 high	cu. yd	s./gg mi	23. F100d	<pre>peak potent . ft./sec./</pre>	ial -
24. Miles of stream	channels by	Regional order	or classes	,	· 10./360./	SU. m:
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25. Miles of Forest	Service road	s and trails b	y maintenanc	e levels:		
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26. Annual precipita	# 127 D	CLIMATIC DA				
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inc	hes SUMMAR	Maximum 30 minu inches 2 yr.	te intensity frequency D ANALYSIS	storm		
inc 30. Skills represent	SUMMAR ed on burned	<pre>Maximum 30 minu inches 2 yr. Y OF SURVEY AN l area survey to</pre>	te intensity frequency D ANALYSIS eam (check)	storm inches	10 vr. fre	quency
30. Skills represent	SUMMAR sed on burned soils Geo	Maximum 30 minu inches 2 yr. Y OF SURVEY AN l area survey co logy ∏Range	te intensity frequency D ANALYSIS eam (check) Timber	storm inches	10 vr. fre	quency
30. Skills represent Hydrology Engineering	SUMMAR sed on burned soils Geo Contracting	Aximum 30 minu inches 2 yr. Y OF SURVEY AN area survey cology Range	te intensity frequency D ANALYSIS eam (check) Timber	storm inches	10 vr. fre	quency
30. Skills represent	SUMMAR sed on burned soils Geo Contracting	Maximum 30 minu inches 2 yr. Y OF SURVEY AN l area survey co logy ∏Range	te intensity frequency D ANALYSIS eam (check) Timber	storm inches	10 vr. fre	quency
30. Skills represent Hydrology Engineering	SUMMAR sed on burned soils Geo Contracting	Maximum 30 minu inches 2 yr. Y OF SURVEY AN l area survey co logy ∏Range	te intensity frequency D ANALYSIS eam (check) Timber	storm inches	10 vr. fre	quency
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30. Skills represent Hydrology Engineering	SUMMAR Sed on burned Soils Geo Contracting ncy	Maximum 30 minu inches 2 yr. Y OF SURVEY AN area survey to logy Range Local Mana	te intensity frequency D ANALYSIS eam (check) Timber	storm inches	10 vr. fre	quency
30. Skills represent Hydrology Engineering 31. Describe emerger	SUMMAR Sed on burned Soils Geo Contracting ncy	Maximum 30 minu inches 2 yr. Y OF SURVEY AN area survey to logy Range Local Mana	te intensity frequency D ANALYSIS eam (check) Timber	storm inches	10 vr. fre	quency
30. Skills represent Hydrology Engineering 31. Describe emerger	SUMMAR Sed on burned Soils Geo Contracting ncy	Maximum 30 minu inches 2 yr. Y OF SURVEY AN area survey to logy Range Local Mana	te intensity frequency D ANALYSIS eam (check) Timber	storm inches	10 vr. fre	quency
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30. Skills represent Hydrology Engineering 31. Describe emerger 32. Emergency rehabit 33. Personnel needs man-years reas	SUMMAR Soils _ Geo Contracting Contracting Contracting for rehabiliting Signed for S	Aximum 30 minu inches 2 yr. Y OF SURVEY AN area survey to logy Range Local Mana ective	te intensity frequency D ANALYSIS eam (check) Timber gement	inches inches Wildlife (Research	10 vr. fre	gement
30. Skills represent Hydrology Engineering 31. Describe emerger 32. Emergency rehabit 33. Personnel needs	SUMMAR SUMMAR Led on burned Soils _ Geo Contracting ncy for rehabilities igned for Sumpleting tr	Aximum 30 minu inches 2 yr. Y OF SURVEY AN area survey to logy Range Docal Mana jective	te intensity frequency D ANALYSIS eam (check) Timber gement on NFS land man-years to first ma	inches inches wildlife [Research is inches	10 vr. fre	gement
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30. Skills represent Hydrology Engineering 31. Describe emerger 32. Emergency rehabit 33. Personnel needs man-years reas 34. Probability of cland 75. Net environments Significant 77. Senefit/cost rate	SUMMAR sed on burned soils _ Geo Contracting for rehabilities greated for Second to Second t	aximum 30 minu inches 2 yr. Y OF SURVEY AN area survey to logy Range Local Mana Local Mana tation project reatment prior Roads 60 enefit index 3 mificant 15 t benefits 13	te intensity frequency D ANALYSIS eam (check) Timber gement con NFS land man-years to first ma 7. Oth 6. Net socia Sign:	inches inches wildlife Research is new hires for damage- ner ificant xectiveness	for S producing s Not Signifindex (check	gement corm ndex icant ir cae
30. Skills represent Hydrology Engineering 31. Describe emerger 32. Emergency rehabit 33. Personnel needs man-years reas 34. Probability of or Land 75 35. Net environments Significant 27. Zenefit/cost fait 2.3/1	SUMMAR sed on burned soils _ Geo Contracting ncy for rehabilities igned for S completing tr Channel 75 al quality be Not Signed Net	aximum 30 minu inches 2 yr. Y OF SURVEY AN area survey to logy Range Local Mana Local Mana tation project reatment prior Roads 60 enefit index 3 mificant to benefits 13	te intensity frequency D ANALYSIS eam (check) Timber gement con NFS land man-years to first ma 7. Oth 6. Net socia	inches inches Wildlife [Research is new hires for damage- ner % al wellbein ificant [X	for S producing s 2 benefit.	gement torm ndex icant
30. Skills represent Hydrology Engineering 31. Describe emerger 32. Emergency rehabit 33. Personnel needs man-years reas 34. Probability of or Land 75 7 35. Net environments Significant 27. Senefic/cost raid 2.3/1	SUMMAR sed on burned soils _ Geo Contracting ncy for rehabilities igned for S completing tr Channel 75 al quality be Not Signed or approval &	aximum 30 minu inches 2 yr. Y OF SURVEY AN area survey to logy Range Local Mana Local Mana tation project reatment prior Roads 60 enefit index 3 mificant to benefits 13	te intensity frequency D ANALYSIS eam (check) Timber gement con NFS land man-years to first ma 7. Oth 6. Net socia	inches inches Wildlife [Research is new hires for damage- ner % al wellbein ificant [X	for S producing s 2 benefit.	gement torm ndex icant icant r cne IV ncing
30. Skills represent Hydrology Engineering 31. Describe emerger 32. Emergency rehabit 33. Personnel needs man-years reas 34. Probability of or Land 75 35. Net environments Significant 27. Zenefit/cost fait 2.3/1	SUMMAR sed on burned soils _ Geo Contracting ncy for rehabilities igned for S completing tr Channel 75 al quality be Not Signed or approval &	aximum 30 minu inches 2 yr. Y OF SURVEY AN area survey to logy Range Local Mana Local Mana tation project reatment prior Roads 60 enefit index 3 mificant to benefits 13 320,000 date Regional	te intensity frequency D ANALYSIS eam (check) Timber gement con NFS land man-years to first ma 7. Oth 6. Net socia	inches inches Wildlife [Research is new hires for damage- ner % al wellbein ificant [X	for \$ producing s z benefit. Not Signifindex (checolar)	gement torm ndex icant r cne ivincing d in

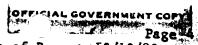
USDA-Forest Service

Indian

Fire Name

	·								Pa	ige 3
	Source of emergency rehabilitation funds for needed work (dollars)	57. Total	130,035					4570	T	134,605
	la for n	56. Non- Federal (name)						(CDF) 2285		2285
	tion fun	55. Other Federal (name)						(SCS) 2285		2285
WERSHIP	nabilitati (dollars)	54. FR&T	22,800							22,800
SUMMARY OF EMERGENCY REHABILITATION NEEDS BY LAND OWNERSHIP	gency rel	53. 216 Section 403								
NEEDS B	of emer	FFF 102								
LITATION	Source	52. 094	107,235			-				107,235
REHABI	tation	Report Other (over-	costs)							-
emercency	y rehabili needs	Road and Trail (miles)	69							67
IARY OF I	Emergency rehabilitation needs	Channel (miles)	9							6
SUM	51. En	Land (acres)	6 39 5	·				965		.7360
	50.	Acres	23,600					2,600		. 59,200
		Land ownership	FEDERAL NFS	Other (name)	Subtotal Federal	NON-FEDERAL State & county	Indian reservation	Private	Subtotal Non-Federal	TOTAL

T 2500-8 (7/78)



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.)

Is not to solve watershed problems that existed prior to the wildfire.) NFS Lands Other Lands										
						O:	ther Land	is	Total	
	77-4.	Unit		FFF 094		No. of	Federal	Non-Fed.	dollars	
58. LAND	Units	cost	NFS	dollars		units	dollars		all 🤼	
	 		NLO	 	(Name)	other	(Name)	(Name)	lands	
Seeding	Acres	4.73	6395	30,235	Delete	965	2285	2205 .		
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					Delete		(SCS)	(CDF)		
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	 	 			· .					
Burn Area Report				8300	,				8300	
									0300	
	<u>l_</u> .	}					·		The Department	
59. CHANNELS										
Opening water		3500	10	05 555					1 5 4	
courses	Miles	2500	10	25,000					25,000	
Stabilizing streambanks										
SELEAMDANKS	Miles					·				
									f:	
									-	
60 30400 5 777477							İ			
60. ROADS & TRAILS		,								
FR&T Repair	Miles	1,167	42	39,600	18 700					
	1	-,10/	74	77,000	18,700				58,300	
Trails	Miles	152	27	4,100-	4,100				8,200	
					,,,,,,				0,200	
				4						
						•				
										
	'						-		•	
61. MAJOR										
STRUCTURES					j				1 (* 155.) 2004	
Preplanned										
from Forest Plans	Each		•							
					22 200		000=			
		TOT	AL	107,235	22,800	İ	2285	2285	134,605	
						_				

BURNED AREA REPORT

BURNEH AREA REPURI

Detailed instructions for use of this form are in the Burned-Area Emergency Rehabilitation Handbook (FSH 2509.13), Section 41.
1. Fire name 2. Request Unitial Winterim Final 3. Date of report
Accomplishment report FFF Other 12/12/80
4. State 5. CountySan 6. Congressional 7. Region 8. Forest 9. Ranger Distric CA. Riverside/Diego District 34&35 5 Cleveland Trabuco
10. Supervisor 11. Date fire started 12. Date controlled 13. Estimated suppressi
14. Fire suppression damages repaired with FFF 102 funds
mi. firelines waterbarred acres firelines seeded
15. Fire intensity 7. low 7. medium 7. high
NATIONAL FOREST SYSTEM PROBLEM INVENTORY 16. Watershed no. 17. NFS acres burned 18. Water repellant soil
7. of NFS area burned
19. Vegetation types
20. Geologic types
21. Soil erosion hazard rating 22. Erosion potential 23. Flood peak potential 23. Flood peak potential 24. Cu. ft./sec./sq. m:
24. Miles of stream channels by Regional order or classes
25. Miles of Forest Service roads and trails by maintenance levels
mi. level I rds. mi. level II rds. mi. levels III, IV. V rds. mi. trai.
CLIMATIC DATA
26. Annual precipitation 27. Design storm rainfall during hour period
inches inches 2 vr. frequency inches 10 vr. frequency
28. Annual runoff 29. Maximum 30 minute intensity storm
inches inches 2 yr. frequency 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 Other
31. Describe emergency
32. Emergency rehabilitation objective
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 75% Channel 75% Roads 90% Other %
35. Net environmental quality benefit index 36. Net social wellbeing benefit index
27. Denefit/cost ratio Net benefits 138. Cost effectiveness index (charicale
greater than 1 greater than 154,000 I III III III 39. Forest Supervisor approvel & date Regional Forester approval & date Data funcing
male 12/12/60 approved a date Regional Forester approval a date pata functing approved in
T 2500-3 (7/78)

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BURNED ARÈA REPORT

USDA-Forest Service

Fire Name Turner

12/12/80

Date of Report

SUMMARY OF EMERGENCY REHABILITATION NEEDS BY LAND OWNERSHIP

			 1						Pag	e 3
Source of emergency rehabilitation funds for needed work (dollars)	57.	Total	45,100							45,100
	56.	Non- Federal (name)		•				1		
1on fuṇd)	55.	Other Federal (name)	·					·		
abilitati (dollars)	54.	FR&T	10,000			·				10,000
gency reh	53.	216	·							
of emerg	FFF	102		:		•				٠
Source	52. F	694 092	38,300							34,300
tation		Other .			:					
Emergency rehabilitation needs	Road		26							26
ergency		Channel (miles)	1	·	=					г
51. Em		Land (acres)	2,015			,				2015
50.	Acres	burned	16,578		16,578			11,162	11,162	27,740
	Land amerabin		PEDERAL NPS	Other (name)	Subtotal Federal	NON-PEDERAL State & county	Indian reservation	Private	Subtotal Non-Federal	TOTAL

T 2500-8 (7/78)

Date of Report 12/12/80

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.)

13 1.02 20 3	7	20013110	NFS Lands				Total		
		** . * .		FFF 094	Other	Other Lands No. of Federal Non-Fed.			ì ,
·		Unit							dollars
50 543	Units	cost		dollars			dollars		all
58. <u>LAND</u>			NFS		(Name)	other	(Name)	(Name)	lands
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59. CHANNELS		1)			1	1	}	
Opening water		2500	1	2500	}	}	1		2500
courses	Miles	2300	1	2300	<u> </u>	<u> </u>	1	<u> </u>	2500
Stabilizing	·	•	ì		1	1	ł	ł	
streambanks.	Miles	<u> </u>	<u></u>	<u> </u>		<u> </u>	1		
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60. ROADS & TRAILS		1			1		1	1	
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FR&T Repair	Miles	1,000	20	20,000	9,000	j	1		29,000
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Overtime for Rehab	team	1	1	1	1	1	1		, , , , , , , , , , , , , , , , , , ,
to complete report			1	800	1	1		1	800
61. MAJOR	 	1	1	1	 	1	 		1
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TIOM POTEST FIANS	Lacii		_1	 	+		 		
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