UNITED STATES DEPARTMENT OF AGRICULTURE
FOREST SERVICE

CLEVELAND NF

REPLY TO: 2520 Watershed Portection and Management

December 12, 1980

SUBJECT: Turner, Lakeland and Indian Fire
Interim Burned Area Reports

TO: Regional Forester

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 runoff 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

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

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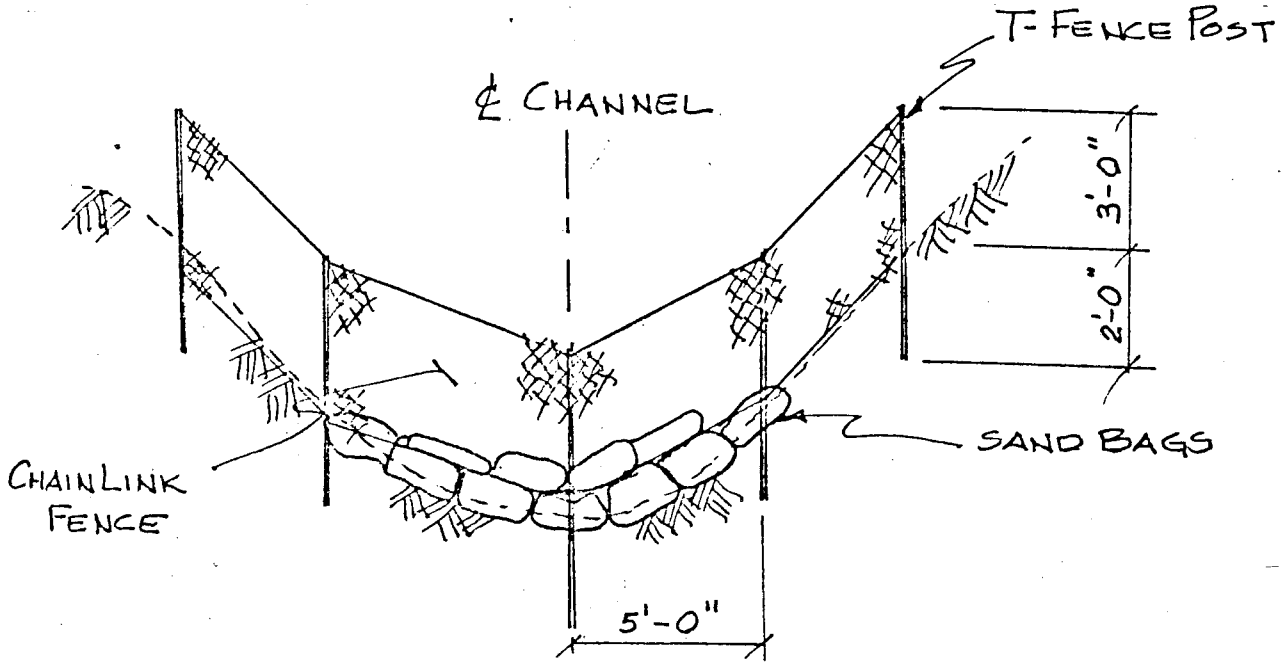
R.A. MOLKENB
12/10/80

DEBRIS CATCHMENT - CHAINLINK FENCE



TYPICAL SECTION

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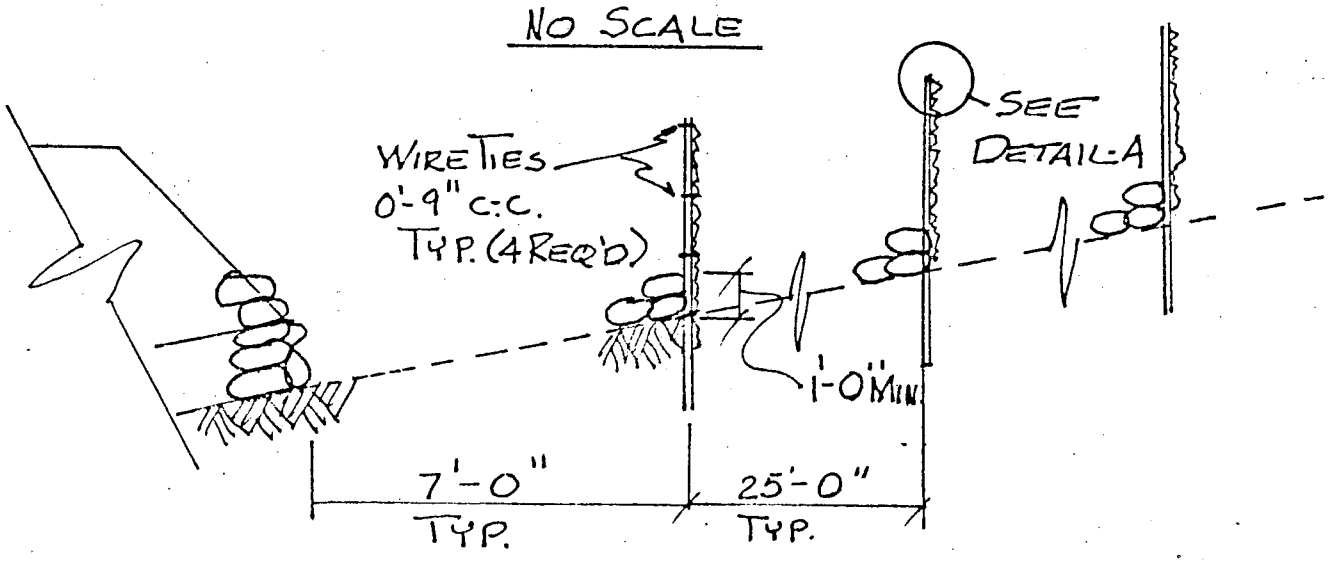
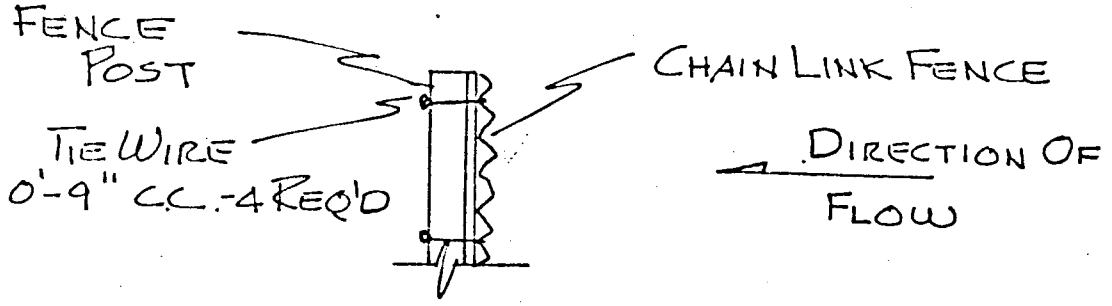
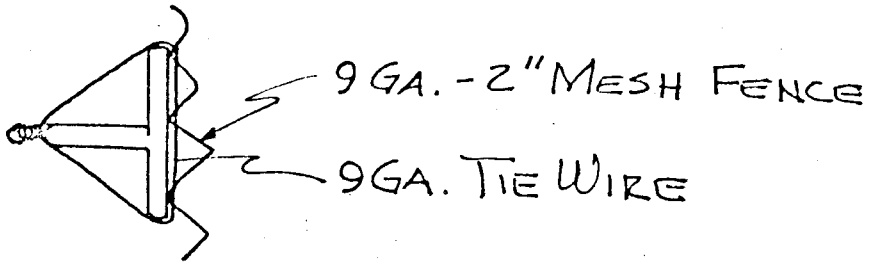


PROFILE

NO SCALE



DETAIL A - ELEVATION
NO SCALE



DETAIL A - PLAN
NO SCALE

GENERAL NOTES

1.) THE NUMBER OF 5 FT FENCE PANELS CROSSING THE DRAINAGE IS VARIABLE DEPENDING UPON WIDTH & CROSS SLOPE

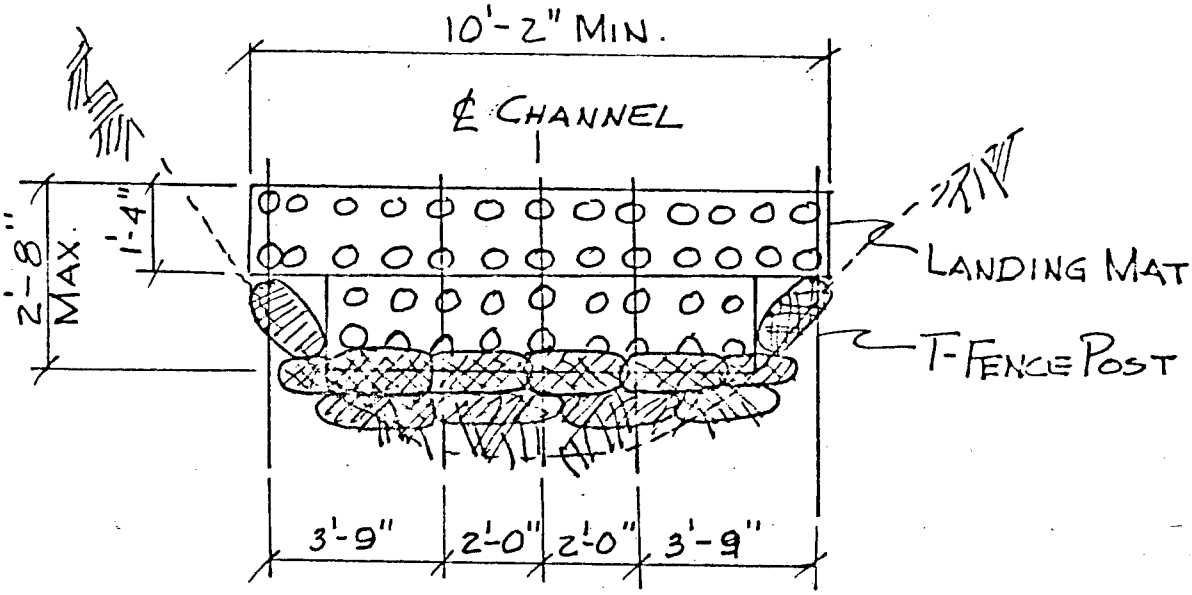
2.) THE NUMBER OF DEBRIS CATCHMENTS PER DRAINAGE IS VARIABLE DEPENDING UPON LENGTH OF DRAINAGE & AMOUNT OF DEBRIS ANTICIPATED.

3.) THE SAND BAGS SHOULD BE PLACED IN EXPECTED IMPACT ~~AREAS.~~ & AROUND CULVERT INLETS

1

R.A. MOLKENBU

DEBRIS CATCHMENT - LANDING MAT



TYPICAL SECTION
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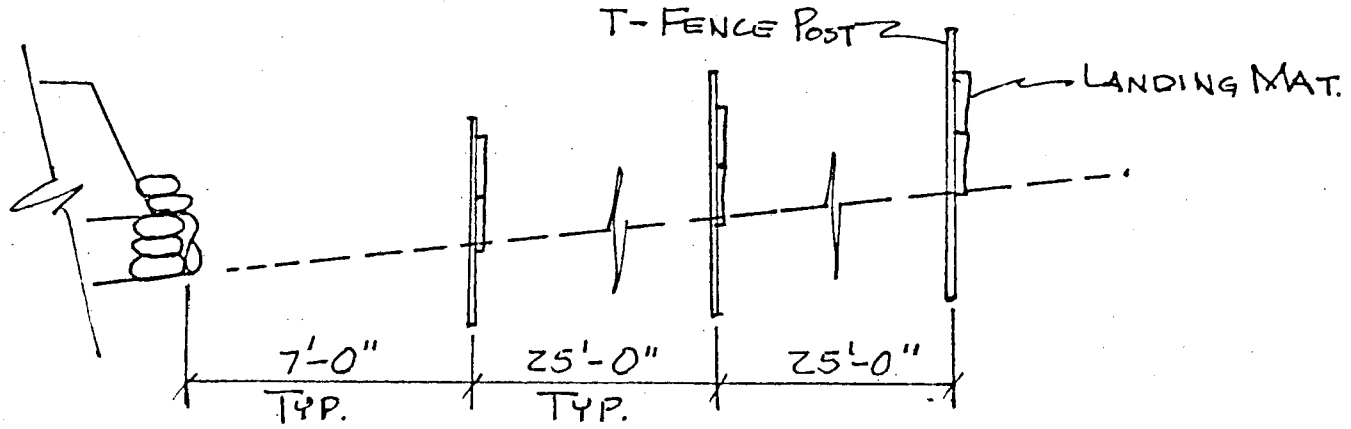

PROFILE
NO SCALE

General Notes

1.) Landing Mat Should Be Place 2-High & Tied To Fence Posts w/ Tie Wire

2.) Fence Posts Should Be Driven 2 Feet Into Ground & Placed On 2' c-c. In Impact Area

3.) Sand Bags Should Be Placed In Expected Impact Areas & Around Culvert Inlets.

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USDA Forest Service

BURNED AREA REPORT

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 ☐ Initial ☒ Interim ☐ Final ☐ Accomplishment report ☐ FFF ☐ Other	3. Date of report
Lakeland		12/12/80

4. State	5. County	6. Congressional District	7. Region	8. Forest	9. Ranger District
Ca.	Riverside	43	5	Cleveland	Trabuco

10. Supervisor fire no.	11. Date fire started	12. Date controlled	13. Estimated suppressi cost $
	11/24/80	11/30/80	2,050,000

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

15. Fire intensity
% low % medium % high

NATIONAL FOREST SYSTEM PROBLEM INVENTORY

16. Watershed no.	17. NFS acres burned	18. Water repellant soil % of NFS area burned

19. Vegetation types

20. Geologic types

21. Soil erosion hazard rating	22. Erosion potential	23. Flood peak potential
% low % med. % high	cu. yds./sq. mi.	cu. ft./sec./sq. mi

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. trail

CLIMATIC DATA

26. Annual precipitation inches	27. Design storm rainfall during ____ hour period inches 2 yr. frequency inches 10 yr. frequency
28. Annual runoff inches	29. Maximum 30 minute intensity storm 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 60 % Other %

35. Net environmental quality benefit index	36. Net social wellbeing benefit index
☐ Significant ☒ Not Significant	☐ Significant ☒ Not Significant

37. Benefit/cost ratio	Net benefits	38. Cost effectiveness index (check one)
5.1/1	(120,300	☐ I ☐ II ☐ III ☐ IV

39. Forest Supervisor approval & date	Regional Forester approval & date	Date funding approved in WO
12/12/80		

USDA-Forest Service

Fire Name Lakeland

BURNED AREA REPORT

Date of Report 12/12/80

SUMMARY OF EMERGENCY REHABILITATION NEEDS BY LAND OWNERSHIP

Land ownership	50. Acres burned	51. Emergency rehabilitation needs				Source of emergency rehabilitation funds for needed work (dollars)						
		Land (acres)	Channel (miles)	Road and Trail (miles)	Other	52. FFF 094	52. FFF 102	53. 216	54. FR&T	55. Other Federal (name)	56. Non-Federal (name)	57. Total
FEDERAL NFS	6400	554	2			17,470			4250			21,720
Other (name)												
Subtotal Federal												
NON-FEDERAL State & county												
Indian reservation												
Private	1,120	362								(SCS) 855	(CDF) 855	1710
Subtotal Non-Federal												
TOTAL						17,470			4250	855	855	23,430

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USDA-Forest Service
Fire Name Lakeland

BURNED AREA REPORT

OFFICIAL GOVERNMENT COPY

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.)

			NFS Lands			Other Lands			Total dollars all lands
58. LAND	Units	Unit cost	No. of units NFS	FFF 094 dollars	Other dollars (Name)	No. of units other	Federal dollars (Name)	Non-Fed. dollars (Name)	
Seeding	Acres	4.73	554	2,620	-	362	855	855	4330
							(SCS)	(CDF)	
59. CHANNELS									
Opening water courses	Miles	2500	2	5000					5000
Stabilizing streambanks	Miles								
60. ROADS & TRAILS									
FR&T Repair	Miles	940	10	9,400	3,800				13,200
Trails	Miles	150	3	450	450				900
61. MAJOR STRUCTURES									
Preplanned -- from Forest Plans	Each								
		TOTAL		17,470	4,250		855	855	23,430

USDA Forest Service

BURNED AREA REPORT

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 ☐ Initial ☒ Interim ☐ Final ☐ Accomplishment report ☐ FFF ☐ Other	3, Date of report
Indian		12/12/80

4. State	5. County	6. Congressional District	7. Region	8. Forest	9. Ranger Distric
CA	Rivers./Orange	43&40	5	Cleveland	Trabuco

10. Supervisor fire no.	11. Date fire started	12. Date controlled	13. Estimated suppressi cost
	11/24/80	12/6/80	$ 4,000,000

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

15. Fire intensity
% low % medium % high

NATIONAL FOREST SYSTEM PROBLEM INVENTORY

16. Watershed no.	17. NFS acres burned	18. Water repellant soil % of NFS area burned

19. Vegetation types

20. Geologic types

21. Soil erosion hazard rating	22. Erosion potential	23. Flood peak potential
% low % med. % high	cu. yds./sq. mi.	cu. ft./sec./sq. mi

24. Miles of stream channels by Regional order or classes

25. Miles of Forest Service roads and trails by maintenance level:
mi. level I rds. mi. level II rds. mi. levels III, IV. V rds. mi. trail

CLIMATIC DATA

26. Annual precipitation	27. Design storm rainfall during ____ hour period	
inches	inches 2 yr. frequency	inches 10 yr. 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 60 % Other %

35. Net environmental quality benefit index	36. Net social wellbeing benefit index
☐ Significant ☒ Not Significant	☐ Significant ☒ Not Significant

37. Benefit/cost ratio	Net benefits	38. Cost effectiveness index (check one)
2.3/1	320,000	☐ I ☐ II ☐ III ☐ IV

39. Forest Supervisor approval & date	Regional Forester approval & date	Date funding approved in
12/12/80		

Fire Name Indian

Date of Report 12/12/80

SUMMARY OF EMERGENCY REHABILITATION NEEDS BY LAND OWNERSHIP

Land ownership	50. Acres burned	51. Emergency rehabilitation needs				Source of emergency rehabilitation funds for needed work (dollars)						
		Land (acres)	Channel (miles)	Road and Trail (miles)	Rehab Report Other (over-time costs)	52. FFF 094	52. FFF 102	53. 216 Section 403	54. FR&T	55. Other Federal (name)	56. Non-Federal (name)	57. Total
FEDERAL NFS	23,600	6395	9	69	1	107,235			22,800			130,035
Other (name)												
Subtotal Federal												
NON-FEDERAL State & county												
Indian reservation												
Private	5,600	965								(SCS) 2285	(CDF) 2285	4570
Subtotal Non-Federal												
TOTAL	29,200	7360	9	67	1	107,235			22,800	2285	2285	134,605

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USDA-Forest Service
Fire Name Indian

BURNED AREA REPORT

OFFICIAL GOVERNMENT COPY

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.)

			NFS Lands			Other Lands			Total dollars all lands
58. LAND	Units	Unit cost	No. of units NFS	FFF 094 dollars	Other dollars (Name)	No. of units other	Federal dollars (Name)	Non-Fed. dollars (Name)	
Seeding	Acres	4.73	6395	30,235	Delete	965	2285	2285	134,805
					Delete		(SCS)	(CDF)	
Burn Area Report				8300					8300
59. CHANNELS Opening water courses	Miles	2500	10	25,000					25,000
Stabilizing streambanks	Miles								
60. ROADS & TRAILS FR&T Repair	Miles	1,167	42	39,600	18,700				58,300
Trails	Miles	152	27	4,100	4,100				8,200
61. MAJOR STRUCTURES Preplanned -- from Forest Plans	Each								
		TOTAL		107,235	22,800		2285	2285	134,605

USDA Forest Service

BURNED AREA REPORT

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 ☐ Initial ☒ Interim ☐ Final ☐ Accomplishment report ☐ FFF ☐ Other	3. Date of report
Turner		12/12/80

4. State	5. County	6. Congressional	7. Region	8. Forest	9. Ranger Distric
CA.	San Riverside/Diego	District 34&35	5	Cleveland	Trabuco

10. Supervisor fire no.	11. Date fire started	12. Date controlled	13. Estimated suppressi cost
	11/16/80	11/22/80	$ 900,000

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

15. Fire intensity
% low % medium % high

NATIONAL FOREST SYSTEM PROBLEM INVENTORY

16. Watershed no.	17. NFS acres burned	18. Water repellant soil % of NFS area burned

19. Vegetation types

20. Geologic types

21. Soil erosion hazard rating	22. Erosion potential	23. Flood peak potential
% low % med. % high	cu. yds./sq. mi.	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 level:
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 yr. frequency	inches 10 yr. 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
☐ Significant ☒ Not Significant	☐ Significant ☒ Not Significant

37. Benefit/cost ratio	Net benefits	38. Cost effectiveness index (check one
greater than 1	greater than 154,000	☐ I ☐ II ☐ III ☐ IV

39. Forest Supervisor approval & date	Regional Forester approval & date	Date funding approved in
12/12/80		

BURNED AREA REPORT

Fire Name Turner

Date of Report 12/12/80

SUMMARY OF EMERGENCY REHABILITATION NEEDS BY LAND OWNERSHIP

Land ownership	50. Acres burned	51. Emergency rehabilitation needs				Source of emergency rehabilitation funds for needed work (dollars)						
						52. FFF		53.	54.	55.	56.	57.
		Land (acres)	Channel (miles)	Road and Trail (miles)	Other	094 092	102	216	FR&T	Other Federal (name)	Non-Federal (name)	Total
FEDERAL NFS	16,578	2,015	1	26		38,300			10,000			45,100
Other (name)												
Subtotal Federal	16,578											
NON-FEDERAL State & county												
Indian reservation												
Private	11,162											
Subtotal Non-Federal	11,162											
TOTAL	27,740	2015	1	26		34,300			10,000			45,100

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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.)

58. LAND	Units	Unit cost	NFS Lands			Other Lands			Total dollars all lands
			No. of units NFS	FFF 094 dollars	Other dollars (Name)	No. of units other	Federal dollars (Name)	Non-Fed. dollars (Name)	
Seeding	Acres								
Elsinore Front	2,015	4.87/ acre		9,800					9,800
59. CHANNELS									
Opening water courses	Miles	2500	1	2500					2500
Stabilizing streambanks	Miles								
60. ROADS & TRAILS									
FR&T Repair	Miles	1,000	20	20,000	9,000				29,000
Trails	Miles	333	6	2,000	1,000				3,000
Overtime for Rehab to complete report	team			800					800
61. MAJOR STRUCTURES									
Preplanned -- from Forest Plans	Each								
		TOTAL		35,100	10,000				45,100