

FDI Final Report - Cleveland NF, Ortega  
United States  
Department of  
Agriculture

Forest  
Service

Cleveland  
National  
Forest

880 Front St, Room 5-N-14  
San Diego, CA 92188

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Reply To: 2520/6520

Date: July 30, 1990

Subject: Final Burn Rehab Reports for FY89/90

To: Regional Forester

Enclosed are the final burn rehab reports for our FY89 fires with major rehab efforts. The reports include the updated total costs and accomplishments for the Mateo and Ortega fire rehab projects. This work was accomplished in both FY89 and FY90.

/s/Michael J. Rogers  
MICHAEL J. ROGERS  
Forest Supervisor

enclosures

BURNED AREA REPORT  
(Reference FSH 2509.13, Report FS-2500-A)

PART I - TYPE OF REQUEST

## 1. Type of Report

- ☐ A. Funding (Request for estimated FFF funds)  
☒ B. Accomplishment Report

## 2. Type of Action

- ☐ A. Initial (estimated funding is first requested)  
☐ B. Interim  
  
☐ Updating the initial funding request.  
☐ Supplying information for accomplishments to date  
on emergency work underway.  
☒ C. Final  
  
☐ Best estimate for funds needed to complete eligible  
rehabilitation measure.  
☒ Following completion of funded work.

PART II - FIRE LOCATION

1. Fire Name (from Form FS-5100-29): ORTEGA
2. Forest Supervisor's Fire No. : INCIDENT #CNF-1068
3. State: CA
4. County: RIVERSIDE/ORANGE
5. Region: 05
6. Forest: 02 (CLEVELAND)
7. Ranger District: 52 (TRABUCO)
8. Date Fire Started: 6/27/89
9. Date Fire Controlled: 7/5/89
10. Estimated Suppression Costs: \$ 2.4 million
11. Fire Suppression Damages Repaired with FFF 102 Funds:

24            miles (firelines waterbarred)  
\_\_\_\_\_ acres (firelines seeded)  
\_\_\_\_\_ Other (identify)

12. Fire Intensity:            5        % (low)    65        % (medium)    30        % (high)

PART III - NATIONAL FOREST SYSTEM PROBLEM INVENTORY

1. Watershed No. ELSINORE FRONT 07020206; SAN JUAN 07030102
2. NFS Acres Burned: approximately 6140 NFS; 1700 PVT.
3. Water Repellant Soil: Majority of the repelancy is at the soil/ash interface with spotty occurrence, approximately 50% in the San Juan Watershed and 75% on the Elsinore Front.
4. Vegetation Types: Chamise - Hoaryleaf ceanothus - Blacksage, Chamise - Hoaryleaf ceanothus -- Shallow , Hoaryleaf ceanothus -- Colluvial, Coastal sage and Coast Live Oak Woodland.
5. Geologic Types: 50% Meta-sedimentary (Friant Soil series and Rock Outcrop)  
50% Granodiorite (Cieneba Series)
6. Soil Erosion Hazard Rating:  
  
    \_\_\_0\_\_\_ % (low)          \_\_\_5\_\_\_ % (medium)          95 % (high)
7. Erosion Potential:    > 58,450    cu. yds/sq. mile Elsinore Front  
                             10,140    cu. yds/sq. mile San Juan Watershed.
8. Miles of Stream Channel by Regional Order or Class: Class 4 = 57 miles  
   Class 3 = 18 miles  
   Class 3 = 2 miles
9. Miles of Forest Service Trail: 18.7
10. Miles of Forest Service Road by Maintenance Level:  
  
    \_\_\_\_\_ miles (Level I)    \_\_\_1.6\_\_\_ miles (Level II)  
    \_\_\_3.1\_\_\_ miles (Levels III, IV, V)

#### PART IV - CALCULATED RISK AND CLIMATIC EVALUATION

1. Estimated Vegetative Recovery Period: 5 years. ( 3 years Coastal sage to 7 years for Scrub oak - Hoaryleaf Ceanothus)
2. Chance of Success Desired by Management: 80 percent.
3. Equivalent Design Recurrence Period: 25 years.
4. Related Design Storm Duration: 6 hours.
5. Related Design Storm Magnitude: .6 inches/hr.
6. Related Design Flow Elsinore Front 106 cfs  
San Juan 62 cfs
7. Estimated Reduction in Infiltration: 75% percent.
8. Adjusted Related Design Flow: Elsinore Front 257 cfs.  
San Juan 175 cfs.

PART V - SUMMARY OF SURVEY AND ANALYSIS

1. Skills Represented on Burned Area Survey Team ("x" appropriate boxes):

<input checked="" type="checkbox"/> Hydrology	<input checked="" type="checkbox"/> Soils	<input checked="" type="checkbox"/> Geology	<input type="checkbox"/> Range
<input type="checkbox"/> Timber	<input checked="" type="checkbox"/> Wildlife	<input type="checkbox"/> Fire Mgmt.	<input checked="" type="checkbox"/> Engineering
<input type="checkbox"/> Contracting	<input checked="" type="checkbox"/> Local Mgmt.	<input type="checkbox"/> Research	<input checked="" type="checkbox"/> Other (Ecology)

2. Describe Emergency: High risk of damage to structures in the Elsinore Front country and culvert damage along State Highway 74 and County roads within the burned area. Values at risk are estimated at \$5,000,000. Large woody debris in the Decker canyon could cause debris dams and threaten Ortega Highway, property in the canyon and valuable oak woodland habitat.

3. Emergency Rehabilitation Objective: See Appendix A.

All of the suppression rehab was completed including approximately 24 miles of waterbars on control lines and purchase of barriers and signs to prevent ORV use on dozer lines. Emergency Burn Area Rehab will be concentrated on the Elsinore Front with the objective of maintaining as much soil on the slope as possible to maintain soil productivity and reduce the cost of down stream sediment removal and property damage. On the San Juan Creek Watershed maintenance of clear channels will be the priority.

4. Probability of Completing Treatment Prior to First Major Damage Producing Storm:

Land	90 %	Channel	95 %	Roads	95 %	Other	n/a %
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5. Net Environmental Quality Benefit Index:

<input checked="" type="checkbox"/> Significant	<input type="checkbox"/> Not Significant
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6. Net Social Well Being Benefit Index:

<input checked="" type="checkbox"/> Significant	<input type="checkbox"/> Not Significant
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7. Benefit/Cost Ratio: 1.4:1

8. Net Benefits: 55,000

9. Cost Effectiveness Index: ☒ I. ☐ II. ☐ III. ☐ IV.

**PART VI - ELIGIBLE EMERGENCY REHABILITATION MEASURES OR TREATMENTS  
AND SOURCE OF FUNDS**

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

Line Items	Units	Unit Cost	NFS Lands			Other Lands			All Lands Total
			No. of Units	FFF 092 \$	Other \$ FFF102	No. of Units	Federal \$	Non-Federal \$ private CDF	
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
<b>A. LAND</b>									
a. Seeding	Acres	28	700	5,000*					5,000
b. Straw Matting	Acres	233	30	15,000*					15,000
c. Straw Bale Dams	Dams	233	150	41,154*					41,154
d. Waterbars	miles	500	20		10,000	4		2,000	12,000
e.									
<b>B. CHANNELS</b>									
a. Opening water courses	Miles	2000	1.25	2,500*					2,500
b. Stabilizing streambanks	Miles								
c.									
d.									
e.									
<b>C. ROADS AND TRAILS</b>									
a. ROADS	miles	1000	4		4,000				4,000
b. TRAILS	miles	250	18	2,000*					2,000
c. BARRIERS & SIGNS		50	150	1,000*	4,000				1,000
<b>D. MAJOR STRUCTURES</b>									
b. sediment/debris basins									
<b>E. TOTAL</b>				66,654	18,000			2,000	86,654

\*Accomplished FY89 and FY90 corrections from preliminary accomplishment report based on double obligation of funds in FY89. These were corrected for the final report.

**PART VII - APPROVALS**

/s/Michael J. Rogers  
Forest Supervisor

7/30/90

erosion cloth - - placed right in  
                    ~~line~~ new channel  
                    sediment disturbance cloth

for

Andrew A. Leven  
Regional Forester (Signature)

8-3-90  
Date