

EXTRA

UNITED STATES  
DEPARTMENT OF  
AGRICULTURE

FOREST  
SERVICE

R0

REPLY TO: 2520/6520

DATE: October 25, 1988

SUBJECT: Authorization for Expending Emergency Burned  
Area Rehabilitation Funds (FFF-092) - for the  
Divide Fire

TO: Forest Supervisor, Angeles National Forest

Enclosed is the approved Burned Area Report (FSH 2509.13, Form 2500-8).

You are authorized to expend FFF-092 funds for Burned-Area Emergency  
Rehabilitation treatments as indicated in Part VI of the FS-2500-8 form.

/s/  
PAUL F. BARKER  
Regional Forester

Enclosure

USDA-FOREST SERVICE

Date of Report: October 24, 1988

BURNED AREA REPORT  
(Reference FSH 2509.13, Report FS-2500-8)

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): DIVIDE  
2. Forest Supervisor's Fire No. (from Form FS-5100-29): ANF 5484  
3. State: CALIFORNIA  
4. County: LOS ANGELES  
5. Region: 5  
6. Forest: ANGELES  
7. Ranger District: TUJUNGA  
8. Date Fire Started: 10/16/88  
9. Date Fire Controlled: 10/21/88  
10. Estimated Suppression Costs: \$ 2,250,000  
11. Fire Suppression Damages Repaired with FFF 102 Funds:

13.25 miles (firelines waterbarred)  
0 acres (firelines seeded)  
X Other (identify)  
250 8' PEELER POLES (\$ 1970.00)  
10 1"x12"x15' PLANKS \ (\$ 150.00)  
10 3' FENCE POSTS /

12. Fire Intensity: 10 % (low) 20 % (medium) 70 % (high)

PART III - NATIONAL FOREST SYSTEM PROBLEM INVENTORY

1. Watershed No.: 1807010501 1807010201
2. NFS Acres Burned: 4280
3. Water Repellant Soil: 70% of NFS acres burned
4. Vegetation Types: MIXED CHAPARRAL, BIG-CONE DOUGLAS FIR, AND MIXED OAK/  
FIR FORESTS ON SLOPES; OAK, SYCAMORE RIPARIAN COMMUNITY  
IN DRAINAGES
5. Geologic Types: UNDIVIDED PRECAMBRIAN METAMORPHIC ROCKS (GNEISS) 65%  
MESOZOIC GRANODIORITE 35%
6. Soil Erosion Hazard Rating:  
0 % (low) 20 % (medium) 80 % (high)
7. Erosion Potential: 49,940 CU. YDS/SQ. MILE
8. Miles of Stream Channels by Regional Order: 12 MILES  
1 - 5.5 MILES  
2 - .5 MILES  
3 - 3.0 MILES  
4 - 3.0 MILES
9. Miles of Forest Service Trails: 4.3 MILES  
3.3 MILES PACOIMA TRAIL  
1.0 MILE BEAR DIVIDE INTERPRETIVE TRAIL
10. Miles of Forest Service Roads by Maintenance Levels:  
0 miles (Level I) 1 mile (Level II)  
5 miles (Levels III, IV, V)

PART IV - CALCULATED RISK AND CLIMATIC EVALUATION

1. Estimated Vegetative Recovery Period: 5 years.
2. Chance of Success Desired: 50% SILT FENCES  
100% BEAR DIVIDE STATION SLOPES  
50% OVERALL SEEDING
3. Equivalent Design Recurrence Period: 10 years.
4. Related Design Storm Duration: 24 hours.
5. Related Design Storm Magnitude: 7 inches.
6. Related Design Flow 120 cfs.
7. Estimated Reduction in Infiltration: 50 percent.
8. Adjusted Related Design Flow: 120 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 type="checkbox"/> Geology	<input checked="" type="checkbox"/> Range
<input checked="" 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"/> Cul Res/Recreation

2. Describe Emergency: POTENTIAL THREAT FROM WINTER STORMS TO USFS FACILITIES (BEAR DIVIDE STATION, LIVE OAK DAY USE AREA, ROADS), ON-FOREST AND OFF-FOREST NON-USFS FACILITIES (HOMES, COUNTY FIRE STATION, PACOIMA RESERVOIR), AND BARE WATERSHEDS.

3. Emergency Rehabilitation Objective: TO MINIMIZE IMPACTS TO 1) BEAR DIVIDE STATION, 2) OTHER EXISTING IMPROVEMENTS, 3) DOWNSTREAM STRUCTURES IN NON-USFS OWNERSHIP, 4) POTENTIAL INCREASE IN OHV ACTIVITY; 5) LIFE EXPECTANCY OF PACOIMA RESERVOIR; AND 6) WATERSHED PRODUCTIVITY.

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

Land	90	Channel	90	%	Roads	90	%	Other	--	%
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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 type="checkbox"/> Significant	<input checked="" type="checkbox"/> Not Significant
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7. Benefit/Cost Ratio: 10.67

8. Net Benefits: \$ 2,725,600

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	NFS Lands			Other Lands			All Lands Total \$
		Unit Cost	No. of Units	FFV 092 \$	Other \$	No. of Units	Federal \$	
(1)	(2)	(3)	(4)	(5)	Ident. (6)	(7)	Ident. (8)	Identify (9)
A. LAND								
a. Seeding	Acres	37	3000	111,000				111,000
b. Silt Fencing	Strnd	200	10	2,000				2,000
c. Bear Divide Sta.								
Mat Erosion Con	Acres	650	2	1,300				1,3000
d.								
B. CHANNELS								
a. Opening water								
courses	Miles							
b. Stabilizing								
streambanks	Miles							
c.								
d.								
e.								
C. ROADS AND TRAILS								
a. Road closure	Miles	6.6	1.8	12,000				12,000
b. Slope Stab.	Miles	.36	7.9	2,850				2,850
c. Debris Ret.	Stru.	.96	13	12,480	12,000			24,480
D. MAJOR STRUCTURES								
a. Preplanned -								
from Forest								
Plans								
E. TOTAL				\$141,630	\$12,000		\$	\$ 153,630

PART VII - APPROVALS

/S/ G. Roby \_\_\_\_\_ 10/24/88

Forest Supervisor (Signature)

Date

/S/Andrew A. Leven for  
Regional Forester (Signature)

10/25/88  
Date

FS-2500-8

## USDA-Forest Service

**EXAMINING IMPACTS OF MANAGEMENT ALTERNATIVES FOR AN  
EMERGENCY PROGRAM**  
(Reference FSH 2509.13)

Fire Name

DIVIDE

Date of Report  
10/21/88**A. ENVIRONMENTAL QUALITY BENEFIT INDEX**

Environmental Factor (a)	Weight Factor (b)	Without Treatment		With Treatment		Difference	
		Actual (c)	Weighted (d)	Actual (e)	Weighted (f)	Actual (g)	Weighted (h)
1. Erosion and sediment	10	2	20	1	10	1	10
2. Aesthetic land quality	3	1	3	0	0	1	3
3. Water quality	4	1	4	1	4	0	0
4. Site productivity	2	0	0	0	0	0	0
5. Wildlife habitat	5	1	5	0	0	1	5
6. Fish habitat	1	0	0	0	0	0	0
7. Other	NA	NA	NA	NA	NA	NA	NA
8. TOTAL	25	XXXXXX	32	XXXXXX	14	XXXXXX	18
9. Average weighted index	XXXXXX	XXXXXX	1.28	XXXXXX	.56	XXXXXX	.72
10. Net environmental quality benefit index	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	S

**B. SOCIAL WELL-BEING BENEFIT INDEX**

Social Criteria (a)	Weight Factor (b)	Without Treatment		With Treatment		Difference	
		Actual (c)	Weighted (d)	Actual (e)	Weighted (f)	Actual (g)	Weighted (h)
1. Life, health, safety	10	2	20	1	10	1	10
2. Employment	1	0	0	0	0	0	0
3. Recreational opportunity	5	1	5	1	5	0	0
4. Economic stability	1	0	0	0	0	0	0

5. Income distribution	1	0	0	0	0	0	0	0	0	0
6. Preserve special sites	3	0	0	0	0	0	0	0	0	0
7. Other	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
8. TOTAL	21	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	10
9. Average weighted index	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	.48
10. Net social well-being benefit index	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	XXXXXXXXXX	NS

C. REMARKS

FS-2500-8a (11/82)



# D. EXPECTED DAMAGE REDUCTION BENEFIT SUMMARY

Note: At current Water Resources Council interest rate		6 percent		Damage Expected		Expected \$ Damage Reduction (g)
Economic Benefit Indices		Without No. of Units (c)	Treatment Present Value (\$) (d)	No. of Units (e)	Treatment Present Value (\$) (f)	
(a)	Units of Measure (b)					
I. Watershed Impacts Sediments	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
1. Downstream water storage	AC-FT	2,593	518,628	2,723	544,600	25,972
2. Sediment removal	CU YDS	172,200	688,800	163,590	654,590	34,210
3. Fish habitat	-	-	-	-	-	-
4. Water quality	AC-FT	2,593	2,593	2,723	5,174	2,581
II. Flood Water	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
1. Land	-	-	-	-	-	-
2. Water Improvements	-	-	-	-	-	-
3. Subtotal, Watershed	XXXXXX	XXXXXX	-	XXXXXX	-	62,763
III. Resource Related Impacts	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
1. Range	-	-	-	-	-	-
2. Wildlife and Recreation	RVD	9,067	110,357	17,362	205,535	95,178
3. Timber	-	-	-	-	-	-
4. Subtotal, Resource Related	XXXXXX	XXXXXX	-	XXXXXX	-	-
IV. Other Impacts	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX
1. ROADS	MILES	9.7	( )	( )	( )	( )
2. Subtotal, Other	XXXXXX	XXXXXX	( )	XXXXXX	( )	( )
V. TOTAL DOLLARS	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	157,941

## REMARKS

SEDIMENT - WATER STORAGE IMPROVED 5% WITH SEEDING. SEDIMENT - 10% CHANCE OF CAPITAL FLOOD BEFORE RECOVERY.  
 WATER QUALITY - \$ .90/AC-FT WITH TREATMENT VS. \$ 1.00/AC-FT WITHOUT TREATMENT

FS-2500-8a (11/82)

## USDA-Forest Service

ON-SITE AND OFF-SITE DEVELOPMENTS SUBJECT TO HAZARDS<sup>1</sup>

(Reference FSH 2509.13)

Fire Name	DIVIDE	Date of Report
Line Items		10/21/88
(a)	Type of Units (b)	Number of Units (c)
1. Community and urban development	People	400
2. Municipal and domestic water supply	People Served	70,000
3. Transportation systems	Miles	12.4
4. Water distribution system (irrigation)	Miles	-
5. Agricultural development (crops, facilities)	Acres	-
6. Industrial development (dams, power, manufacturing)	Number	1
7. Power and communication lines	Miles	1.5
8. Recreation development	PAOT	200
9. Fish habitat	Miles	-
10. Other (specify) FOREST SERVICE ADMINISTRATIVE SITE	Number	( )
11. Total Hazard Potential	XXXXXXXXXX	XXXXXXXXXX
	XXXXXXXXXX	( 3,528,000 )

12. Narrative (Optional- if additional space is needed, attach another sheet).

- Damage to 100 downstream homes (est. worth \$400,000 ea.) below Bear Canyon with 4 people per home.
- Based on release of 1000 ac-ft/yr and 50 gal/person/day use. \$200/ac-ft=capacity.
- County Roads - 5.9 miles, F.S. Roads 6.5 miles. Average based on \$18,150 rehab costs.
- No significant systems
- No significant use of that type
- Cost to remove sediment from Pacoima Reservoir based on erosion potential and acres burned.
- 1.5 miles of SCE Powerline, unknown mileage of telephone and other utility lines.
- Based on present use figures.
- No perennial streams.

10. Bear Divide Station. Based on Facility Condition Report Replacement Value.

<sup>1</sup> 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 reported on FS-5100-29.)

<sup>2</sup> Indicates values threatened by design storm. Does not enter into the B/C.

FS-2500-8b (11/82)

## USDA-FOREST SERVICE

SUMMARY OF EMERGENCY REHABILITATION NEEDS BY LANDOWNERSHIP  
(Reference FSH 2509.13)Fire Name DIVIDEDate of Report 10/21/88

Landownership	A. Acres Burned	B. Emergency Rehabilitation Needs			
		(1) Land (acres)	(2) Channel (miles)	(3) Road & Trail (miles)	(4) Other
Federal (NFS)	3,660	687		9.7	
Other (specify)	-				
Subtotal (NFS)	3,660	687		9.7	
Non-Federal (State & County)					
Indian Reservation					
Private	620				
Subtotal (Non-Federal)	620				
TOTAL	4,280	687		9.7	
C. Source of Emergency Rehabilitation Funds for Needed Work (\$)					

## C. Source of Emergency Rehabilitation Funds for Needed Work (\$)

Landownership	1. FFF		2. Emergency Flood Prevention	3. FR & T	4. Other Federal (Enter fund)	5. Non- Federal (Enter fund)	6. Total
	(a) 092	(b) 102					
Federal (NFS)	141,630						141,630
Other (specify) L.A. County					12,000		12,000
Subtotal (NFS)							153,630
Non-Federal (State & County)							
Indian Reservation							

[illegible]

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