

UNITED STATES DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

R-5

REPLY TO: 2520 Watershed Protection and Management  
(WS)

March 4, 1980

SUBJECT: C.Y. 1979 Burn Rehabilitation Accomplishment Reports,  
San Bernardino National Forest

TO: Chief



Attached are final accomplishment reports for the Ruddell #2 and the Shadow burns. An interim report is, also, attached for the Shadow Branch #3 burn.

ANDREW A. LEVEN  
Staff Director, Watershed Management

Enclosures

UNITED STATES DEPARTMENT OF AGRICULTURE  
FOREST SERVICE

SBNF

REPLY TO: 2520 Watershed Protection and Management

January 7, 1980

SUBJECT: Burned Area Survey Accomplishment Reports

TO: Regional Forester

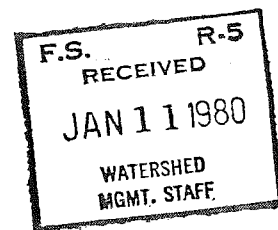


Attached are three T2500-8 accomplishment forms for rehabilitation work on the Ruddell #2, Shadow, and Shadow Br. #3 fires. Seeding of the Shadow fires commenced on December 14 and was completed on December 15. Road work was completed on Shadow Br. #3 in November and on Ruddell #2 in December.

*Robert R. Tyrrel*  
ROBERT R. TYRREL  
Forest Supervisor

Enclosure

Ruddell #2	\$8500 -	Approval	
Shadow	5120		Did spend \$6120?
Shadow Br. #3	18500		Did spend 19,680?



Detailed instructions for use of this form are in the Burned-Area Emergency Rehabilitation Handbook (FSH 2509.13), Section 41.

1. Fire name Shadow	2. <input type="checkbox"/> Request <input type="checkbox"/> Initial <input type="checkbox"/> Interim <input checked="" type="checkbox"/> Final <input checked="" type="checkbox"/> Accomplishment report <input type="checkbox"/> FFF <input type="checkbox"/> Other	3. Date of report January 7, 1980
4. State CA	5. County San Bernardino	6. Congressional District 37
7. Region 5	8. Forest San Bernardino	9. Ranger District Cajon (San G)
10. Supervisor	11. Date fire started Sept. 15, 1979	12. Date controlled Sept. 19, 1979
13. Estimated suppression cost \$300,000		
14. Fire suppression damages repaired with FFF 102 funds 2.5 mi. firelines waterbarred      acres firelines seeded		
15. Fire intensity 0    % low    30    % medium    70    % high		

## NATIONAL FOREST SYSTEM PROBLEM INVENTORY

16. Watershed no. 28(27)	17. NFS acres burned 1238	18. Water repellant soil % of NFS area burned
19. Vegetation types		
20. Geologic types		
21. Soil erosion hazard rating % low    % med.    % high	22. Erosion potential cu. yds./sq. mi.	23. Flood peak potential 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. trails		

## 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) <input type="checkbox"/> Hydrology <input type="checkbox"/> Soils <input type="checkbox"/> Geology <input type="checkbox"/> Range <input type="checkbox"/> Timber <input type="checkbox"/> Wildlife <input type="checkbox"/> Fire Management <input type="checkbox"/> Engineering <input type="checkbox"/> Contracting <input type="checkbox"/> Local Management <input type="checkbox"/> Research <input type="checkbox"/> Other		
31. Describe emergency - Increased runoff and erosion threaten private land developments and improvements. State, Highway 330, which provides key access to ski areas and mountain communities, could be closed due to debris flows.		
32. Emergency rehabilitation objective - To stabilize slopes above private land development and to provide added sediment storage in debris basins.		
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    %    Channel    %    Roads    %    Other    %		
35. Net environmental quality benefit index <input type="checkbox"/> Significant <input type="checkbox"/> Not Significant	36. Net social wellbeing benefit index <input type="checkbox"/> Significant <input type="checkbox"/> Not Significant	
37. Benefit/cost ratio      Net benefits	38. Cost effectiveness index (check one) <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV	
39. Forest Supervisor approval & date <i>Robert R. Tynd</i> 1/7/1980	Regional Forester approval & date	Date funding approved in WO

USDA - Forest Service  
Fire Name

BURNED AREA REPORT

Date of Report

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ON-SITE AND OFF-SITE DEVELOPMENTS SUBJECT TO 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 as reported on Form 5100-29.)

	No. of units	Estimated value (dollars)
40. Community and urban development	people	
41. Municipal and domestic water supply	people served	
42. Transportation systems	miles	
43. Water distribution systems (irrigation)	miles	
44. Agricultural development (crops, facilities)	acres	
45. Industrial development (dams, power, manufacturing)	number	
46. Power and communication lines	miles	
47. Recreation development	PAOT	
48. Fish habitat	miles	
49. Other (specify)		

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

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

## BURNED AREA REPORT

Date of Report

Fire Name

## 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)					57. Total
		Land (acres)	Channel (miles)	Road and Trail (miles)	Other	52. FFP	53. 216	54. FR&T	55. Other Federal (name)	56. Non- Federal (name)	
						094	102				
FEDERAL NFS											
Other (name)											
Subtotal Federal											
NON-FEDERAL State & county											
Indian reservation											
Private											
Subtotal Non-Federal											
TOTAL											

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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.)

	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)	
58. <u>LAND</u>									
Seeding	Acres	8.25	742	6120		1062	1864	1864	9848
59. <u>CHANNELS</u>									
Opening water courses	Miles								
Stabilizing streambanks	Miles								
60. <u>ROADS &amp; TRAILS</u>									
61. <u>MAJOR STRUCTURES</u>									
Preplanned -- from Forest Plans	Each								
TOTAL				6120			1864	1864	9848

\* Sec. 216 funds

\*\* California Department of Forestry  
City of San Bernardino

Fire Name \_\_\_\_\_

Date of Report \_\_\_\_\_

## EXAMINING IMPACTS OF MANAGEMENT ALTERNATIVES FOR AN EMERGENCY PROGRAM

62.

## EXPECTED DAMAGE REDUCTION BENEFIT SUMMARY

at current Water Resources Council interest rate of \_\_\_\_ percent

Economic benefit indices	Units of measure	Damage expected				Expected \$ damage reduction
		Without treatment		With treatment		
		No. of units	Present value \$	No. of units	Present value \$	
WATERSHED IMPACTS						
SEDIMENTS						
Downstream water storage						
Sediment removal						
Fish habitat						
Water quality						
FLOOD WATER						
Land						
Improvements						
Subtotal watershed						
RESOURCE RELATED IMPACTS						
Range						
Wildlife and recreation						
Timber						
Subtotal resource related						
OTHER IMPACTS						
Subtotal other						
Total dollars						

Fire Name \_\_\_\_\_

Date of Report \_\_\_\_\_

## EXAMINING IMPACTS OF MANAGEMENT ALTERNATIVES FOR AN EMERGENCY PROGRAM

63. (Table 4)

ENVIRONMENTAL QUALITY BENEFIT INDEX

ENVIRONMENTAL CRITERIA	Weight Factor	Without treatment		With treatment		Difference	
		Actual	Weighted	Actual	Weighted	Actual	Weighted
Erosion and sediment							
Aesthetic land quality							
Water quality							
Site productivity							
Wildlife habitat							
Fish habitat							
Other							
TOTAL							
Average weighted index							
Net environmental quality benefit index							

64. (Table 5)

SOCIAL WELL-BEING BENEFIT INDEX

SOCIAL CRITERIA	Weight Factor	Without treatment		With treatment		Difference	
		Actual	Weighted	Actual	Weighted	Actual	Weighted
Life, health, safety							
Employment							
Recreational opportunity							
Economic stability							
Income distribution							
Preserve special sites							
Other							
TOTAL							
Average weighted index							
Net social well-being benefit index							