

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

1. Fire name Ruddell #2	2. <input type="checkbox"/> Request <input type="checkbox"/> Initial <input type="checkbox"/> Interim <input 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 California	5. County San Bernardino	6. Congressional District 35
7. Region 5	8. Forest San Bernardino	9. Ranger District Cajon
10. Supervisor fire no. 117	11. Date fire started July 26, 1979	12. Date controlled July 30, 1979
13. Estimated suppression cost \$700,000		
14. Fire suppression damages repaired with FFF 102 funds 8 mi. firelines waterbarred      acres firelines seeded		
15. Fire intensity 10 % low      80 % medium      10 % high		

## NATIONAL FOREST SYSTEM PROBLEM INVENTORY

16. Watershed no. 34 (35)	17. NFS acres burned 1809	18. Water repellent soil 10 % of NFS area burned
19. Vegetation types Chamise - 30%; Ceanothus/interior live oak - 60%; Big Cone Douglas-fir - 10%		
20. Geologic types Recent alluvium; Pleistocene non-marine sediments; Pelona schist		
21. Soil erosion hazard rating 25% low 13% med. 62% high	22. Erosion potential 60,820 cu. yds./sq. mi.	23. Flood peak potential 80 cu. ft./sec./sq. mi.
24. Miles of stream channels by Regional order or classes Order 1 - 4 miles; Order 2-2 miles		
25. Miles of Forest Service roads and trails by maintenance levels mi. level I rds.      mi. level II rds.      3 mi. levels III, IV, V rds. 1.6 mi. trails		

## CLIMATIC DATA

26. Annual precipitation 19 inches	27. Design storm rainfall during 6 hour period 1.68 inches 2 yr. frequency 3.13 inches 10 yr. frequency
28. Annual runoff 2 inches	29. Maximum 30 minute intensity storm 0.29 inches 2 yr. frequency 0.54 inches 10 yr. frequency

## SUMMARY OF SURVEY AND ANALYSIS

30. Skills represented on burned area survey team (check) <input checked="" type="checkbox"/> Hydrology <input checked="" type="checkbox"/> Soils <input type="checkbox"/> Geology <input checked="" type="checkbox"/> Range <input type="checkbox"/> Timber <input type="checkbox"/> Wildlife <input type="checkbox"/> Fire Management <input checked="" type="checkbox"/> Engineering <input type="checkbox"/> Contracting <input checked="" type="checkbox"/> Local Management <input type="checkbox"/> Research <input type="checkbox"/> Other		
31. Describe emergency - The existing drainage structures on forest road 2N53 are inadequate to handle the increased runoff. There is an increased risk of losing the road fill and initiating accelerated erosion in the channels and damaging downstream improvements.		
32. Emergency rehabilitation objective - Prevent the loss of road fills and subsequent accelerated erosion and possible loss of downstream improvements.		
33. Personnel needs for rehabilitation project on NFS lands 0.2 man-years reassigned for \$3000      man-years new hires for \$		
34. Probability of completing treatment prior to first major damage-producing storm Land %      Channel %      Roads 90 %      Other %		
35. Net environmental quality benefit index <input type="checkbox"/> Significant <input checked="" type="checkbox"/> Not Significant		36. Net social wellbeing benefit index <input checked="" type="checkbox"/> Significant <input type="checkbox"/> Not Significant
37. Benefit/cost ratio 1.76	Net benefits \$19,500	38. Cost effectiveness index (check one) <input type="checkbox"/> I <input type="checkbox"/> II <input checked="" type="checkbox"/> III <input type="checkbox"/> IV
39. Forest Supervisor approval & date <i>Robert R. Lymn</i> 1/7/80	Regional Forester approval & date	Date funding approved in WO

T2500-8 (7/78)

USDA - Forest Service  
Fire Name

BURNED AREA 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	
	4 miles road	130,000
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 January 7, 1980

Fire Name Ruddell #2

## 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		53. 216	54. FR&T	55. Other Federal (name)	56. Non-Federal (name)	57. Total	
						094	102						
FEDERAL NFS	1809			3.1		9650			1410			11,060	
Other (name)													
Subtotal Federal	1809			3.1		9650			1410			11,060	
NON-FEDERAL State & county													
Indian reservation													
Private	100												
Subtotal Non-Federal	100												
TOTAL	1909			3.1		9650			1410			11,060	

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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								
59. <u>CHANNELS</u>									
Opening water courses	Miles								
Stabilizing streambanks	Miles								
60. <u>ROADS &amp; TRAILS</u>									
Road Drains				8500					8500
61. <u>MAJOR STRUCTURES</u>									
Preplanned -- from Forest Plans	Each								
TOTAL				8500					8500

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	Miles	3.1	116,500	3.1	136,000	19,500
Subtotal watershed			116,500		136,000	19,500
RESOURCE RELATED IMPACTS						
Range						
Wildlife and recreation						
Timber						
Subtotal resource related						
OTHER IMPACTS						
Subtotal other						
Total dollars			116,500		136,000	19,500

## 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							0

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	0						
Employment	0						
Recreational opportunity	10	1	10	0	0	1	10
Economic stability	0						
Income distribution	0						
Preserve special sites	0						
Other	5	1	5	0	0	1	5
TOTAL	15		15		0		15
Average weighted index			1.0		0		1.0
Net social well-being benefit index							1.0