

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

1. Fire name Chili Bar	2. <input checked="" type="checkbox"/> Request <input type="checkbox"/> Initial <input checked="" type="checkbox"/> Interim <input type="checkbox"/> Final <input type="checkbox"/> Accomplishment report <input type="checkbox"/> FFF <input type="checkbox"/> Other	3. Date of report 9/27/79
4. State California	5. County El Dorado	6. Congressional District 14
7. Region 05	8. Forest Eldorado 03	9. Ranger District Georgetown 53
10. Supervisor fire no. 045	11. Date fire started September 16, 1979	12. Date controlled September 22, 1979
13. Estimated suppression cost \$ 864,795		
14. Fire suppression damages repaired with FFF 102 funds mi. firelines waterbarred 75 acres firelines seeded		
15. Fire intensity 40% low 30% medium 30% high		

NATIONAL FOREST SYSTEM PROBLEM INVENTORY

16. Watershed no. 18 02 01 29 01	17. NFS acres burned 560	18. Water repellent soil 60% of NFS area burned
19. Vegetation types 30% mixed conifer 40% brush hardwood 30% pine hardwood		
20. Geologic types Metamorphic marine sediments cover 100% of area		
21. Soil erosion hazard rating % low 30% med. 70% high	22. Erosion potential 12,900 cu. yds./sq. mi.	23. Flood peak potential 176cu. ft./sec./sq. mi.
24. Miles of stream channels by Regional order or classes Class I, 0.7 Class II 0.7 Class IV 2.9 USES/ Class I 12.5, II 0.7, III 6.5, IV 7.		
25. Miles of Forest Service roads and trails by maintenance levels 0mi. level I rds. 2 mi. level II rds. 1 mi. levels III, IV, V rds. 1/2 mi. trails		

CLIMATIC DATA

26. Annual precipitation 45 inches	27. Design storm rainfall during 6 hour period 1.8 inches 2 yr. frequency 2.8 inches 10 yr. frequency
28. Annual runoff 12 inches	29. Maximum 30 minute intensity storm 0.5 inches 2 yr. frequency 0.7 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 type="checkbox"/> Range <input checked="" type="checkbox"/> Timber <input checked="" 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 High potential for onsite sheet & rill erosion and the associated reduction in site productivity. Onsite & Offsite sedimentation and damage to roads, fisheries and water storage facilities. Also there is significant damage to a key deer winter range.	
32. Emergency rehabilitation objective Stabilize the soils with grasses and forbs thereby protecting site productivity & reducing damages to downstream values. Also reestablish important browse species within the key deer winter range.	
33. Personnel needs for rehabilitation project on NFS lands 1 man-years reassigned for \$18,000 no man-years new hires for \$	
34. Probability of completing treatment prior to first major damage-producing storm Land 90% Channel 80% Roads 90% Other -- %	
35. Net environmental quality benefit index <input checked="" type="checkbox"/> Significant <input type="checkbox"/> Not Significant	36. Net social wellbeing benefit index <input type="checkbox"/> Significant <input checked="" type="checkbox"/> Not Significant
37. Benefit/cost ratio 2.0	38. Cost effectiveness index (check one) Net benefits 17,728 <input type="checkbox"/> I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV
39. Forest Supervisor approval & date Eugene T. May 9/28/79	
Regional Forester approval & date 15/ Richard R. Millar 10/1/79	
Data funding approved in WO	

Fire Name Chili Bar

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 One eye trail	miles .5	1000
43. Water distribution systems (irrigation)	miles	
44. Agricultural development (crops, facilities)	acres	
45. Industrial development (dams, power, manufacturing)	number 1	3,000,000
Chili Bar Dam	miles	
46. Power and communication lines	PAOT	
47. Recreation development Dispursed use	miles 13.2	3,000
48. Fish habitat		
49. Other (specify)		
TOTAL HAZARD POTENTIAL (Indicates values threatened by design storm. Does not enter into the B/C.)		3,004,000

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

BURNED AREA REPORT

Fire Name Chili Bar

Date of Report 9/27/79

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.		53. 216	54. FR&T	55. Other Federal (name)	56. Non- Federal (name)	57. Total
						094	FFF 102					
FEDERAL NFS	560	340	.9	.5	--	8920	12,000	---	1,000	---	---	21,920
Other (name) BLM	590											
Subtotal Federal	1,150											
NON-FEDERAL State & county												
Indian reservation												
Private												
Subtotal Non-Federal	5,874											
TOTAL	7,024											

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								
Cooperative Agreement with CDF	Acre	4.50	560	2520		5704		25,668	28,188
Ground application of USES seed mix	Acre	30.00	120	3600					3,600
Discing & Mulching	Acre	20.00	70	1400					1,400
59. <u>CHANNELS</u>									
Opening water courses	Miles								
Stabilizing streambanks	Miles								
60. <u>ROADS & TRAILS</u>									
Level II	Miles	450.00	2	900		Country Roads 5		2250	3,150
Level III +	Miles	500.00	1	500					500
61. <u>MAJOR STRUCTURES</u>									
Preplanned -- from Forest Plans	Each								
TOTAL				8,920				27,918	36,838

EXAMINING IMPACTS OF MANAGEMENT ALTERNATIVES FOR AN EMERGENCY PROGRAM

62.

EXPECTED DAMAGE REDUCTION BENEFIT SUMMARY
at current Water Resources Council interest rate of 6.875 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	ac-ft	7.0	525	1.4	105	420
Sediment removal	N/A	N/A	N/A	N/A	N/A	N/A
Fish habitat	rec/days	50	500	0	0	500
Water quality	N/A	N/A	N/A	N/A	N/A	N/A
FLOOD WATER Land	N/A	N/A	N/A	N/A	N/A	N/A
Improvements	N/A	N/A	N/A	N/A	N/A	N/A
Subtotal watershed			1025		105	920
RESOURCE RELATED IMPACTS Range	N/A	N/A	N/A	N/A	N/A	N/A
Wildlife and recreation	deer	55	13,250	0	0	13,250
Timber	MBF	5719	3,558	0	0	3,558
Subtotal resource related			16,808		0	16,808
OTHER IMPACTS						
Subtotal other						
Total dollars			17,833		105	17,728

Fire Name Chili Bar

Date of Report 9/27/79

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	6	1	6	0	0	1	6
Aesthetic land quality	2	1	2	0	0	1	2
Water quality	3	1	3	0	0	1	3
Site productivity	10	2	20	1	10	1	10
Wildlife habitat	7	2	14	0	0	2	14
Fish habitat	5	1	5	0	0	1	5
Other							
TOTAL	33		50		10		40
Average weighted index			1.5		.3		1.2
Net environmental quality benefit index							1.2

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	5	0	0	0	0	0	0
Employment	2	0	0	0	0	0	0
Recreational opportunity	5	0	0	0	0	0	0
Economic stability	10	0	0	0	0	0	0
Income distribution	1	0	0	0	0	0	0
Preserve special sites	0	0	0	0	0	0	0
Other							
TOTAL	13		0		0		0
Average weighted index			0		0		0
Net social well-being benefit index							0

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

1. Fire name Chili Bar		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 checked="" type="checkbox"/> FFF <input type="checkbox"/> Other			3. Date of report March 26, 1980	
4. State California	5. County El Dorado	6. Congressional District 14	7. Region 05	8. Forest Eldorado 03	9. Ranger District Georgetown 53	
10. Supervisor fire no. 045		11. Date fire started September 16, 1979	12. Date controlled September 22, 1979	13. Estimated suppression cost \$ 864,795		
14. Fire suppression damages repaired with FFF 102 funds mi. firelines waterbarred 75 acres firelines seeded						
15. Fire intensity 40% low 30% medium 30% high						

NATIONAL FOREST SYSTEM PROBLEM INVENTORY

16. Watershed no. 18 02 01 29 01		17. NFS acres burned 560	18. Water repellent soil 60% of NFS area burned
19. Vegetation types 30% mixed conifer 40% brush hardwood 30% pine hardwood			
20. Geologic types Metamorphic marine sediments cover 100% of area			
21. Soil erosion hazard rating % low 30% med. 70% high		22. Erosion potential 12,900 cu. yds./sq. mi.	23. Flood peak potential 176cu. ft./sec./sq. mi.
24. Miles of stream channels by Regional order or classes Class I, 0.7 Class II 0.7 Class IV 2.9 USFS/ Class I 12.5, II 0.7, III 6.5, IV. 7			
25. Miles of Forest Service roads and trails by maintenance levels 0mi. level I rds. 2 mi. level II rds. 1 mi. levels III, IV, V rds. 1/2 mi. trails			

CLIMATIC DATA

26. Annual precipitation 45 inches	27. Design storm rainfall during 6 hour period 1.8 inches 2 yr. frequency 2.8 inches 10 yr. frequency
28. Annual runoff 12 inches	29. Maximum 30 minute intensity storm 0.5 inches 2 yr. frequency 0.7 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 type="checkbox"/> Range <input checked="" type="checkbox"/> Timber <input checked="" 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 High potential for onsite sheet & rill erosion and the associated reduction in site productivity. Onsite & Offsite sedimentation and damage to roads, fisheries and water storage facilities. Also there is significant damage to a key deer winter range.		
32. Emergency rehabilitation objective Stabilize the soils with grasses and forbs thereby protecting site productivity & reducing damages to downstream values. Also reestablish important browse species within the key deer winter range.		
33. Personnel needs for rehabilitation project on NFS lands 1 man-years reassigned for \$18,000 no man-years new hires for \$		
34. Probability of completing treatment prior to first major damage-producing storm Land 90% Channel 80% Roads 90% Other -- %		
35. Net environmental quality benefit index <input checked="" type="checkbox"/> Significant <input type="checkbox"/> Not Significant		36. Net social wellbeing benefit index <input type="checkbox"/> Significant <input checked="" type="checkbox"/> Not Significant
37. Benefit/cost ratio 2.0	Net benefits 17,728	38. Cost effectiveness index (check one) <input type="checkbox"/> I <input checked="" type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV
39. Forest Supervisor approval & date <i>[Signature]</i> 3-27-80		Regional Forester approval & date Date funding approved in MO

Fire Name Chili Bar

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 One eye trail	miles .5	1000
43. Water distribution systems (irrigation)	miles -----	-----
44. Agricultural development (crops, facilities)	acres -----	-----
45. Industrial development (dams, power, manufacturing)	number 1	3,000,000
Chili Bar Dam	miles -----	-----
46. Power and communication lines	PAOT -----	-----
47. Recreation development Dispursed use	miles 13.2	3,000
48. Fish habitat		
49. Other (specify)		
TOTAL HAZARD POTENTIAL (Indicates values threatened by design storm. Does not enter into the B/C.)		3,004,000

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

Fire Name

Date of Report March 26, 1980

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. PFF	53. 216	54. FR&T	55. Other Federal (name)	56. Non- Federal (name)	57. Total
FEDERAL											
NFS	560	340	.9	.5	--	8223.54	12,000	1,000	---	---	21,223.54
Other (name)	590										
Subtotal Federal	1,150										
NON-FEDERAL State & county											
Indian reservation											
Private											
Subtotal Non-Federal	5,874										
TOTAL	7,024										

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. LAND									
Seeding	Acres								
Cooperative Agreement with CDF	Acre	3.0456	560	1705.54		5704		17372.10	19077.64
Ground application of USFS seed mix	Acre	30.983	120	3718					3718
Disking & Mulching	Acre	20.00	70	1400					1400
59. CHANNELS									
Opening water courses	Miles								
Stabilizing streambanks	Miles								
60. ROADS & TRAILS									
Level II	Miles	450.00	2	900		Country Roads 5		2250	3150
Level III +	Miles	500.00	1	500					500
61. MAJOR STRUCTURES									
Preplanned -- from Forest Plans	Each								
TOTAL				8223.54				19622.10	27845.64

EXAMINING IMPACTS OF MANAGEMENT ALTERNATIVES FOR AN EMERGENCY PROGRAM

62. EXPECTED DAMAGE REDUCTION BENEFIT SUMMARY
at current Water Resources Council interest rate of 6.875 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	ac-ft	7.0	525	1.4	105	420
Sediment removal	N/A	N/A	N/A	N/A	N/A	N/A
Fish habitat	rec/days	50	500	0	0	500
Water quality	N/A	N/A	N/A	N/A	N/A	N/A
FLOOD WATER						
Land	N/A	N/A	N/A	N/A	N/A	N/A
Improvements	N/A	N/A	N/A	N/A	N/A	N/A
Subtotal watershed			1025		105	920
RESOURCE RELATED IMPACTS						
Range	N/A	N/A	N/A	N/A	N/A	N/A
Wildlife and recreation	deer	55	13,250	0	0	13,250
Timber	MBF	5719	3,558	0	0	3,558
Subtotal resource related			16,808		0	16,808
OTHER IMPACTS						
Subtotal other						
Total dollars			17,833		105	17,728

Fire Name Chili Bar

Date of Report 9/27/79

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	6	1	6	0	0	1	6
Aesthetic land quality	2	1	2	0	0	1	2
Water quality	3	1	3	0	0	1	3
Site productivity	10	2	20	1	10	1	10
Wildlife habitat	7	2	14	0	0	2	14
Fish habitat	5	1	5	0	0	1	5
Other							
TOTAL	33		50		10		40
Average weighted index			1.5		.3		1.2
Net environmental quality benefit index							1.2

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	5	0	0	0	0	0	0
Employment	2	0	0	0	0	0	0
Recreational opportunity	5	0	0	0	0	0	0
Economic stability	10	0	0	0	0	0	0
Income distribution	1	0	0	0	0	0	0
Preserve special sites	0	0	0	0	0	0	0
Other							
TOTAL	13		0		0		0
Average weighted index			0		0		0
Net social well-being benefit index							0