

AUG 15 1977

Specific instructions for use of this form are attached. Overall instructions are in  
FSM 2523 and FSH 2509.13, Burned-Area Emergency Rehabilitation Handbook.

1. Fire name Freeway	2. Request <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Interim Accomplishment report <input type="checkbox"/> FFF <input type="checkbox"/> Other	3. Date of report August 12, 1977
4. State CA	5. County Nevada	6. Congressional District 02
7. Region 5	8. Forest Tahoe	9. Ranger District Truckee
10. Supervisor fire no. 130	11. Date fire started August 9, 1977	12. Date controlled August 10, 1977
13. Estimated suppression cost \$ 245,000		
14. Fire suppression damages repaired with FFF 102 funds 0 mi. firelines waterbarred 0 acres firelines seeded (TO DATE)		
15. Fuel type fire intensity 10 % light 30 % moderate 60 % extreme		

## NATIONAL FOREST SYSTEM PROBLEM INVENTORY

16. Watershed no. 15-09-01	17. NFS acres burned 598	18. Water repellant soil 0 % of NFS area burned
19. Vegetation types Eastside Pine		
20. Geologic types Tertiary Volcanics (Andesites)		
21. Soil erosion hazard rating Low=10%, Mod=60%, High=30%	22. Erosion potential 2,360 cu. yds./sq. mi.	23. Storm peak potential 326 cu. ft./sec./sq. mi.
24. Miles of stream channels by Regional order or classes 1st Order= 3.75 miles, 2nd Order= 0.5 mile		
25. Miles of Forest Service roads by maintenance levels 0 mi. level I 0 mi. level II 1.3 mi. levels III, IV, V		

## CLIMATIC DATA

26. Annual precipitation 25 inches	27. Design storm rainfall during 24 hour period 3 inches 2 yr. frequency 4 inches 10 yr. frequency
28. Annual runoff 10 inches	29. Maximum 30 minute intensity storm 0.45 inches 2 yr. frequency 0.75 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 type="checkbox"/> Timber <input checked="" type="checkbox"/> Wildlife <input checked="" type="checkbox"/> Fire Management <input checked="" type="checkbox"/> Engineering <input type="checkbox"/> Contracting <input type="checkbox"/> Local Management <input type="checkbox"/> Research		
31. Describe emergency Wildfire through eastside pine (sagebrush understory) type. Fire burned Boca Hill to southwest shore at Boca Reservoir. About 2 miles of the Boca Res. shoreline forms national fire line. Main concerns are the sedimentation		
32. Emergency rehabilitation objective of Boca Res. & Truckee River and possible damage to Forest Service & County Road. Stabilize soils to minimize sedimentation of Boca Res. and the Truckee River. Side benefit would be maintaining timber site quality.		
33. Personnel needs for rehabilitation project on NFS lands 0.06 man-years reassigned for \$1,200 0 man-years new hires for \$0		
34. Probability of completing treatment prior to first major damage-producing storm Land 90 % Channel--- % Roads--- % 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 0.30	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 Richard L. Stambler 8/12/77 Deputy Forest Supervisor	Regional Forester approval & date	Date funding approved in WO

## Exhibit 1 -- Continued

Page 2

USDA - Forest Service  
Fire Name

## BURNED AREA REPORT

Date of Report

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 0	0
41. Municipal water supply	people served 0	0
42. Transportation systems	miles 2.55	45,350
43. Water distribution systems (irrigation)	miles 0	0
44. Agricultural development (crops, facilities)	acres 0	0
45. Industrial development (dams, power, manufacturing)	number 0	0
46. Power and communication lines	miles 0	0
47. Recreation development	PAOT 0	0
48. Fish habitat improvements	miles 0	0
49. Other (specify) Reservoir Storage	ac.ft. 3.2	32
*TOTAL HAZARD POTENTIAL		45,382

## SUMMARY OF EMERGENCY REHABILITATION NEEDS BY LAND OWNERSHIP

SUMMARY OF EMERGENCY REHABILITATION NEEDS BY LAND OWNERSHIP											
Land ownership	50. Acres burned	51. Emergency rehab needs				Source of emergency rehabilitation funds for needed work (dollars)					
		Land acres	Channel miles	Road miles	Other	52	53	54	55	56	57 Total
						FFF	216	FR&T	Other Fed. (Name)	Non-Fed. (Name)	
FEDERAL NFS	598	295	FF	FF	FF	102,094 X					10,325
Other (name)	0										
Subtotal	598		FF	FF	FF						
NON-FEDERAL State and county	0										
Private	866	278	FF	FF	FF		9,730				9,730
Indian	0										
Subtotal	866		FF	FF	FF						
TOTAL	1464	573	FF	FF	FF	X 10,325					20,055

2500-8 (5/76)

\*Does not enter into the B/C - merely an indication of values threatened.

R-5 ID No. 1

4/1/77

Fire Name

Date of Report

## 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	\$35	295	10,325		278	(216) 9,730		20,055
59. <u>CHANNELS</u>									
Opening water courses	Miles								
Stabilizing streambanks	Miles								
60. <u>ROADS</u>									
Ditch cleaning	Miles								
61. <u>MAJOR STRUCTURES</u>									
Preplanned structures from Unit Plans	Each								
TOTAL				10,325	---		9,730	-----	20,055

Seed mixture

7lb. orchardgrass

6lb. blanda brome

13 lbs/acre

Seed mixture confirmed by range mgt  
to be that suitable for the area  
to be seeded

PL

2500-8 (5/76)

Site 4 and 5

USDA-Forest Service  
Fire Name

## Exhibit 1 -- Continued

## BURNED AREA REPORT

Date of Report

Page 4

## EXAMINING IMPACTS OF MANAGEMENT ALTERNATIVES FOR AN EMERGENCY PROGRAM

## EXPECTED DAMAGE REDUCTION BENEFIT SUMMARY @ \_\_\_\_\_ PERCENT INTEREST

62.

ECONOMIC CRITERIA	Units of measure	DAMAGES EXPECTED				Expected \$ Damage Reduction
		Without treatment		With treatment		
		No. of units	Present value \$	No. of units	Present value \$	
SEDIMENTATION IMPACTS						
Downstream storage	ac.ft.	3.2		3.0		Insignificant
Sediment removal	cu.yd.	5,360	53,600	4,765	47,650	5,950
Fish habitat	--					0
Water quality	--					0
FLOOD WATER DAMAGE						
Land	--					0
Improvements	--					0
OTHER						
TOTAL DOLLARS						5,950

63.

## ENVIRONMENTAL QUALITY BENEFIT INDEX

ENVIRONMENTAL CRITERIA	Weight Factor	Without treatment		With treatment		Difference	
		Actual	Weighted	Actual	Weighted	Actual	Weighted
Erosion and sediment	5	1	5	1	5	0	0
Aesthetic land quality	10	2	20	0	0	2	20
Water quality	5	1	5	0	0	1	5
Ecological benefits	10	2	20	1	10	1	10
Wildlife habitat	10	2	20	1	10	1	10
Fish habitat	2	1	2	1	2	0	0
Other Range	5	2	10	1	5	1	5
TOTAL	47		82		32		50
Average weighted index			1.7		0.6		1.1
Net environmental quality benefit index							1.1

64.

## SOCIAL WELLBEING BENEFIT INDEX

SOCIAL CRITERIA	Weight Factor	Without treatment		With treatment		Difference	
		Actual	Weighted	Actual	Weighted	Actual	Weighted
Life, health, safety	1	0	0	0	0	0	0
Employment	1	0	0	0	0	0	0
Recreational opportunity	1	0	0	0	0	0	0
Economic stability	1	0	0	0	0	0	0
Income distribution	1	0	0	0	0	0	0
Preserve special sites	1	0	0	0	0	0	0
Other			0				0
TOTAL	6		0		0		0
Average weighted index			0		0		0
Net social wellbeing benefit index							0

2500-8 (5/76)

R-5 ID No. 1

4/1/77

## BURNED AREA REPORT

R-5  
RECEIVED

Specific instructions for use of this form are attached. Overall instructions are in FSM 2523 and FSH 2509.13, Burned-Area Emergency Rehabilitation Handbook.

1. Fire name Freeway	2. Request <input checked="" type="checkbox"/> Initial <input type="checkbox"/> Interim Accomplishment report <input type="checkbox"/> FFF <input type="checkbox"/> Other	3. Date of report August 12, 1977
4. State CA	5. County Nevada	6. Congressional District 02
7. Region 5	8. Forest Tahoe	9. Ranger District Truckee
10. Supervisor fire no. 130	11. Date fire started August 9, 1977	12. Date controlled August 10, 1977
13. Estimated suppression cost \$ 245,000		
14. Fire suppression damages repaired with FFF 102 funds 0 mi. firelines waterbarred 0 acres firelines seeded (TO DATE)		
15. Fuel type fire intensity 10 % light 30 % moderate 60 % extreme		

## NATIONAL FOREST SYSTEM PROBLEM INVENTORY

16. Watershed no. 15-09-01	17. NFS acres burned 598	18. Water repellent soil 0 % of NFS area burned
19. Vegetation types Eastside Pine		
20. Geologic types Tertiary Volcanics (Andesites)		
21. Soil erosion hazard rating Low=10%, Mod=60%, High=30%	22. Erosion potential 2,360 cu. yds./sq. mi.	23. Storm peak potential 326 cu. ft./sec./sq. mi.
24. Miles of stream channels by Regional order or classes 1st Order= 3.75 miles, 2nd Order= 0.5 mile		
25. Miles of Forest Service roads by maintenance levels 0 mi. level I 0 mi. level II 1.3 mi. levels III, IV, V		

## CLIMATIC DATA

26. Annual precipitation 25 inches	27. Design storm rainfall during 24 hour period 3 inches 2 yr. frequency 4 inches 10 yr. frequency
28. Annual runoff 10 inches	29. Maximum 30 minute intensity storm 0.45 inches 2 yr. frequency 0.75 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 checked="" type="checkbox"/> Geology <input type="checkbox"/> Range <input type="checkbox"/> Timber <input checked="" type="checkbox"/> Wildlife <input checked="" type="checkbox"/> Fire Management <input checked="" type="checkbox"/> Engineering <input type="checkbox"/> Contracting <input type="checkbox"/> Local Management <input type="checkbox"/> Research		
31. Describe emergency Wildfire through eastside pine (sagebrush understory) type. Fire burned Boca Hill to southwest shore at Boca Reservoir. About 2 miles of the Boca Res. shoreline forms national fire line. Main concerns are the sedimentation		
32. Emergency rehabilitation objective of Boca Res. & Truckee River and possible damage to Forest Service & County Road. Stabilize soils to minimize sedimentation of Boca Res. and the Truckee River. Side benefit would be maintaining timber site quality.		
33. Personnel needs for rehabilitation project on NFS lands 0.06 man-years reassigned for \$1,200 0 man-years new hires for \$0		
34. Probability of completing treatment prior to first major damage-producing storm Land 90 % Channel--- % Roads--- % 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 0.30	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 Edward L. Stambaugh 8/12/77 Deputy Forest Supervisor	Regional Forester approval & date	Date funding approved in WO

USDA - Forest Service  
Fire Name

Exhibit 1 -- Continued  
BURNED AREA REPORT

Date of Report

Page 2

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 0	
41. Municipal water supply	people served 0	
42. Transportation systems	miles 2.55	45,350
43. Water distribution systems (irrigation)	miles 0	
44. Agricultural development (crops, facilities)	acres 0	
45. Industrial development (dams, power, manufacturing)	number 0	
46. Power and communication lines	miles 0	
47. Recreation development	PAOT 0	
48. Fish habitat improvements	miles 0	
49. Other (specify) Reservoir Storage	ac.ft. 3.2	32
*TOTAL HAZARD POTENTIAL		45,382

SUMMARY OF EMERGENCY REHABILITATION NEEDS BY LAND OWNERSHIP											
Land ownership	50.	51. Emergency rehab needs				Source of emergency rehabilitation funds for needed work (dollars)					
	Acres burned	Land acres	Channel miles	Road miles	Other	52 FFF	53 216	54 FR&T	55 Other Fed. (Name)	56 Non-Fed. (Name)	57 Total
						102 094					
FEDERAL NFS	598	295	--	--	--	X 10,325					10,325
Other (name)	0										
Subtotal	598		--	--	--						
NON-FEDERAL State and county	0										
Private	866	278	--	--	--		9,730				9,730
Indian	0										
Subtotal	866		--	--	--						
TOTAL	1464	573	--	--	--	X 10,325					20,055

2500-8 (5/76)

\*Does not enter into the B/C - merely an indication of values threatened.

R-5 ID No. 1

4/1/77

USDA-Forest Service

## BURNED AREA REPORT

Fire Name

Date of Report

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	\$35	295	10,325		278	(216) 9,730		20,055
59. <u>CHANNELS</u>									
Opening water courses	Miles								
Stabilizing streambanks	Miles								
60. <u>ROADS</u>									
Ditch cleaning	Miles								
61. <u>MAJOR STRUCTURES</u>									
Preplanned structures from Unit Plans	Each								
TOTAL				10,325	---		9,730	-----	20,055

Seed mixture

7lb orchardgrass

6lb blanda bromes

13 lbs/acre

Seed mixture confirmed by range mgmt  
 to be that suitable for the area  
 to be seeded

PL 2500-8 (5/76)

Site 4 and 5

USDA-Forest Service  
Fire Name

## Exhibit 1 -- Continued

## BURNED AREA REPORT

Date of Report

Page 4

EXAMINING IMPACTS OF MANAGEMENT ALTERNATIVES FOR AN EMERGENCY PROGRAM  
EXPECTED DAMAGE REDUCTION BENEFIT SUMMARY @ \_\_\_\_\_ PERCENT INTEREST  
62.

ECONOMIC CRITERIA	Units of measure	DAMAGES EXPECTED				Expected \$ Damage Reduction
		Without treatment		With treatment		
		No. of units	Present value \$	No. of units	Present value \$	
SEDIMENTATION IMPACTS						
Downstream storage	ac.ft.	3.2		3.0		Insignificant
Sediment removal	cu.yd.	5,360	53,600	4,765	47,650	5,950
Fish habitat	--					0
Water quality	--					0
FLOOD WATER DAMAGE						
Land	--					0
Improvements	--					0
OTHER						
TOTAL DOLLARS						5,950

## 63. ENVIRONMENTAL QUALITY BENEFIT INDEX

ENVIRONMENTAL CRITERIA	Weight Factor	Without treatment		With treatment		Difference	
		Actual	Weighted	Actual	Weighted	Actual	Weighted
Erosion and sediment	5	1	5	1	5	0	0
Aesthetic land quality	10	2	20	0	0	2	20
Water quality	5	1	5	0	0	1	5
Ecological benefits	10	2	20	1	10	1	10
Wildlife habitat	10	2	20	1	10	1	10
Fish habitat	2	1	2	1	2	0	0
Other Range	5	2	10	1	5	1	5
TOTAL	47		82		32		50
Average weighted index			1.7		0.6		1.1
Net environmental quality benefit index							1.1

## 64. SOCIAL WELLBEING BENEFIT INDEX

SOCIAL CRITERIA	Weight Factor	Without treatment		With treatment		Difference	
		Actual	Weighted	Actual	Weighted	Actual	Weighted
Life, health, safety	1	0	0	0	0	0	0
Employment	1	0	0	0	0	0	0
Recreational opportunity	1	0	0	0	0	0	0
Economic stability	1	0	0	0	0	0	0
Income distribution	1	0	0	0	0	0	0
Preserve special sites	1	0	0	0	0	0	0
Other			0				0
TOTAL	6		0		0		0
Average weighted index			0		0		0
Net social wellbeing benefit index							0

2500-8 (5/76)