



United States  
Department of  
Agriculture

Forest  
Service

Grand Mesa, Uncompahgre,  
& Gunnison N. F.

FS R-2  
RECEIVED

MAR 23 1981

DIV. OF WATERSHED MGT.


Reply to: 2520 Watershed Protection and Management

Date: March 17, 1981

Subject: Burned Area Rehabilitation  
Spring Creek Fire

To: Regional Forester

Enclosed is the accomplishment report requested in your 2/10/81 memo. We will make the first assessment of project effectiveness following the spring runoff (such as it will be).

*for*   
JIMMY R. WILKINS  
Forest Supervisor

Enclosure

copy to W.O. 3/23/81

RPM





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

1. Fire name Spring Creek	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 2/26/81
4. State CO	5. County Gunnison	6. Congressional District 04
7. Region 02	8. Forest Gunnison	9. Ranger District Taylor River
10. Supervisor fire no. 005	11. Date fire started 6/27/80	12. Date controlled 6/30/80
13. Estimated suppression cost \$ 200,000		
14. Fire suppression damages repaired with FFF 102 funds .5 mi. firelines waterbarred 0 acres firelines seeded		
15. Fire intensity 10% low 20% medium 70% high		

## NATIONAL FOREST SYSTEM PROBLEM INVENTORY

16. Watershed no. 14 03000095	17. NFS acres burned 840	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 High potential for onsite soil loss and further deterioration of site productivity. Steep slopes denuded of vegetation.	
32. Emergency rehabilitation objective Establish desirable vegetative cover on burned and disturbed areas as quickly as possible through vegetation.	
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 Acting 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>Steve Campbell</i> 3/8/81	Regional Forester approval & date Date funding approved in WO

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 B/C.)		

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

## 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														
Other (name)														
Subtotal Federal														
NON-FEDERAL State & county														
Indian reservation														
Private														
Subtotal Non-Federal														
TOTAL														

Fire Name Spring Creek

Date of Report 3/16/81

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)	
<b>58. LAND</b>									
Seeding	Acres								
Aerial	Acres		700	7200	0				
<b>59. CHANNELS</b>									
Opening water courses	Miles								
Stabilizing streambanks	Miles								
<b>60. ROADS &amp; TRAILS</b>									
<b>61. MAJOR STRUCTURES</b>									
Preplanned -- from Forest Plans	Each								
TOTAL				7200	0				

Seeding Rate - 12<sup>lb.</sup>/~~10~~ acre

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							