### → TED STATES DEPARTMENT OF AGRICULTURE FOREST SERVICE

#### Shasta-Trinity National Forest

REPLY TO:

2520 Watershed Management and Protection

February 13, 1978

6510 Appropriations and Funds

SUBJECT:

Emergency Fire Rehabilitation - Skinner Mill Fire

Final Report

TO:

Regional Forester, R-5

Attention: Paul Leger, Watershed Management Group



Attached is our corrected expenditure accounting for the final Skinner Mill fire emergency rehabilitation report.

Attached also are copies of memorandum of understanding relating to other agency involvement in the emergency fire rehab work. In addition, are zerox copies of those memorandum items that I could locate which refer to funding allocations for the rehabilitation work.

JACK R. FISHER

Branch Chief, Soil and Watershed Management

Enclosures



D

USDA Forest Service	BURNED AREA REPORT	Page 1					
Specific instructions for	use of this form are attached. Overall :	instructions are in					
FSM 2523 and FSH 2509.13.	Burned-Area Emergency Rehabilitation Hand	lbook.					
	guest Initial Interim Final						
	complishment report XFFF FINAL ther	July 12, 1977					
4. State 5. County 6	Congressional 7. Region 8. Forest	9. Ranger District					
10. Supervisor 11. Date	fire started 12. Date controlled 13. Eq. 1976 July 3, 1976 FS co	stimated suppression					
fire no. /99 June 2	7, 19/6   July 3, 19/6   FS co	Attachment Page)					
7.0 mi. firelines waterbarred 0 acres firelines seeded							
15. Fuel type fire intensi 20 % light 50 % m							
1 20 % light 30 % m	oderate 30 % extreme						
	ONAL FOREST SYSTEM PROBLEM INVENTORY						
	FS acres burned 18. Water repellant 75 % of NFS are						
	2954 75 % of NFS are arral (Chamise, Bitter Brush, Shrub o	ak. Manzanita.					
	and Timber (R:P4&M4 = 10 yr. return						
20 Geologic types	asedimentary						
<u> </u>		m peak potential					
L 0 M 30% H 30%	20,000 cu. yds./sq. mi.  80-120 c	cu. ft./sec./sq. mi.					
24. Miles of stream channe 1/3 Mile Class 1; 0.5	ls by Regional order or classes						
	e roads by maintenance levels						
	4 mi. level II; 0.2 mi. levels	III, IV, V					
	OT THAMES DAMA						
26. Annual precipitation	CLIMATIC DATA 27. Design storm rainfall during 6 1	our period					
35-50 inches		es 10 yr. frequency					
28. Annual runoff	29. Maximum 30 minute intensity storm	20 10 12 22040000					
12-17 inches		es 10 yr. frequency					
30. Skills represented on	SUMMARY OF SURVEY AND ANALYSIS burned area survey team (check)						
F Hydrology ∇ Soils	XGeology XRange XTimber XWildlife	XFire Management					
	Contracting X Local Management	Research					
	nsiderable increase in surface water						
	ced during the coming winter storms.						
overall adverse impact w	ill affect water quality and quantity						
fisheries, (Continued	on Attached sheet)						
32. Emergency rehabilitati	on objective Through multidisciplinar	y team effort,					
	complete burn rehabilitation action						
reduce surface water run	off and sediment production as it affe	ects water					
quality and quantity, ro	ads, fisheries, wildlife, soil produc	tivity and (Con-					
	habilitation project on NFS lands tinu	ed on attached sheet)					
1 man-years reassigned	for \$17,000 0 man-years new hire	es for \$					
	ing treatment prior to first major damage						
Land % Channe		514 1-1-1					
35. Net environmental qual X Significant		Not Significant					
37. Benefit/cost ratio	38. Cost effectiveness						
14	·6/1   MI   III	TIII TIV					
Forest Supervisor appr	oval & date Regional Forester approval &	date Date funding					
	1/17/78	approved in WO					

2500-8 Revised 4/77 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	
41.	Municipal water supply	people served	8:
42.	Transportation systems	miles	
43.	Water distribution systems (irrigation)	miles	
44.	Agricultural development (crops, facilities)	acres	
	Industrial development (dams, power, manufacturing)	number	·
	Power and communication lines	miles	
47.	Recreation development	PAOT	
	Fish habitat improvements	miles	
	Other (specify)		
	*TOTAL HAZARD POTENTIAL	· · · · · · · · · · · · · · · · · · ·	

	SUMMAR	y of en	ÆRGENCY	REHAB	ILITAT	ION	NEE	DS BY I	LAND OW	NERSHIP		
•	50.	51. En	nergency	rehab	needs	So	urce	of eme	ergency	rehabi ork (do	litatio	n funds
Land	Acres		Channel	Road		.5	2	53	54	55	56	57
ownership	burned	acres	miles	miles	Other		FF 094	216	FR&T	Other Fed. (Name)	Fed.	Total
FEDERAL NFS							,——			(Manie)		36,700-
Other (name	)						-					
Subtotal					<del>                                     </del>	-					<del></del>	
NON-FEDERAL State and county						-			·			
Private			<u> </u>									
Indian												
Subtotal	<del></del>										·	
TOTAL						500-	36.200-					36,700

2500-8

Revised 4/77

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

USDA-Forest Service 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 solv	1	1		FS Lands		01	Total		
•		Unit		FFF 094	Other	No. of	Federal	Non-Fed.	dollar
	Units			dollars				dollars	all
58. <u>LAND</u>			NFS		(Name)		(Name)	(Name)	lands
	1.				FFF 102				
Seeding	Acres	·				ļ			
Acrial grass Secting	<u></u>			13,4970					13,497
Range land Drilling Grass Seed & Fertilizer On Constructed Firebreaks	88	76.97	88 AL.	6,773 60					6,773
On Constructed Fire breaks									
59. CHANNELS								:	
Opening water courses	Miles								
Stabilizing streambanks	Miles								
<u> </u>					·				
60. ROADS		-							
Ditch cleaning	Miles								
Water barring of ?	7.0	7/43	7.0mi		500-				500-
Constructed Fore breaks									
·									
61. MAJOR STRUCTURES	-								
Preplanned structures									
	Each								
		TOT	AL						
Fire Rehab. Admin	estrat	ion, a	te						
Modoc N.F Detail	lers for	K daill.	in of	50000					5000-
Overseeing Range Grass Seed and Fa and Pd-Vahicle	Rentz	c. Tr	erel leage et						
Shasta - Trinity									14 40.5
Rangeland Drills, T. and parts. Helicapti Administration assist	ranspa uting	, Vahi	ole centols	10,930				2500-8	10,430
Alministration assista Salaries, Travel & Pd., e	once (ye de,	1/2 84	vija Vistr,\*					Revise	
	To	12/		36,200	50000				36,700

#### #13. Estimated Suppression Costs

The total F.S. suppression costs for the Skinner Mill Fire was \$873,682.59 of which the California Division of Forestry will reimburse the F.S. \$185,699.24 for F.S. suppression activities on C.D.F. responsible lands. F.S. suppression activities included work on adjacent lands administered by the Bureau of Land Management.

#### #31. (continued from page 1)

wildlife, aesthetics, and soil productivity. Overall impacts may also affect homes and general local communities of Red Bluff vicinity depending upon the severity of subsequent winter storms.

The above statement was prepared as the initial estimate of damages likely to occur during winter storms, depending upon storm intensities and duration.

Following is the actual sequence of events both climatic and other for the post fire period.

The climatic situation for Northern California during the period January 1976 up to June 27, 1976, date fire started, had been extremely dry with persistent north winds all spring and early summer. The accumulative rainfall for this period was about 5.0 inches. The normal rainfall for the same period is about 18 inches. The antecedent soil moisture for the fire area was near zero.

The fire had burned over about 72,000 acres of which 59,417 acres was on private land, 9,540 acres on Bureau of Land Management administered lands and 2,954 acres on Forest Service administered lands. The Forest Service rehab. team took leadership in trying to establish a cooperative agreement with the California Division of Forestry, Bureau of Land Management, Soil Conservation Service and California Department of Fish and Game for the possible use of combined agency fire emergency funds with possible additional use of Flood Emergency Section 216 funds on an equitable pro-rated basis. However, after several agency meetings, it was evident a multi-agency agreement on rehabilitation procedures and aerial application of specific grass seed species could not be reached.

With this as background, the rehab. team decided in cooperation with the Bureau of Land Management and State Department of Fish and Game through Memoranda of Understanding, to first aerial seed the fire affected Federal lands, excluding the timber burned area and then to rangeland drill seed and fertilize the fire constructed fire breaks on ridge tops of Federal administered lands.

Since the climatic conditions favoring immediate grass seeding were extremely poor, the work was planned for the latter part of September

or early October just prior to the normal fall rains. However, on August 2, 1976 an extremely unusual summer storm of high intensity — 1.45 inches in a 5 hour period — hit the thoroughly denuded burned area. The sediment yield was devestating to the natural fisheries in Cottonwood Creek drainage as well as the fisheries in tributaries to Cottonwood Creek. Several thousands of fish were killed, both anadromous as well as natives. Water quality was greatly degraded by ash, earth material and organic debris.

Under the circumstance, the Rehab. team wondered if it would be worth their while to go ahead with the planned emergency rehabilitation work. However, believing protective benefits would be derived by carrying out the seeding program, we put the plan to work.

Through the attached copies of Memorandum of Understanding with the Bureau of Land Management and State Department of Fish and Game, the project work was put into action on October 5, 1977, the aerial seeding was started on October 18 and completed on about the 23 of October. Follow-up on the ground inspection of seed distribution found that distribution to be highly satisfactory.

Rangeland drill seeding and fertilizing was delayed several days because of delay in seed certification, seed mixing, delivery, getting rangeland drills in operable condition and contractor labor problems.

The rangeland drill grass seeding and fertilization commenced on October 28 and successfully completed by November 9, 1976.

Assessment of both the aerial seeding and grass seed drilling was made in April this spring. Though the winter was extremely dry compared to normal years, the precipitation we did get was well distributed. The drilled fertilized grass seed work on the ridgetop fire breaks was extremely successful. The aerial seeding of pelletized grass seed can only be assessed as about 50 percent successful. The ash seed bed had been completely lost by the intense rainfall following the fire. However, because of good precipitation distribution, grass seed germination was fair. Sprouting activity and seedling germination of the native existing shrubs flourished with growth on the fire affected area.

#### #32. (continued from page 1)

timber resources, in addition to ultimately restore the landscape ecosystem to near natural conditions in the shortest time frame practical.

JACK FISHER Fire Emergency Rehabilitation Team Leader

# Daudering

## MEMORANDUM OF UNDERSTANDING FOR AERIAL SEEDING WORK - SKINNER MILL FIRE

This agreement is made and entered into by and between the U.S. Forest Service (Shasta-Trinity National Forest) and the U.S. Bureau of Land Management (Redding District), (herein referred to as the Service and the Bureau), under the provisions of the Economy Act of 1915, (31 U.S.C. 686).

#### WITNESSETH:

WHEREAS, a recent wildfire in the vicinity of Tomhead Mountain, known as the SKINNER MILL FIRE, created the need for rehabilitation work on Bureau and Service managed lands and,

WHEREAS, a part of the rehabilitation work will consist of aerial seeding of certain areas of the burn and,

WHEREAS, it will be a cost advantage to the government if both agencies consolidate their efforts into one operation,

NOW THEREFORE, it is mutually agreed by and between the parties that:

- 1. Bureau will act as lead agency in all matters relating to procurement of seed and aerial application services.
- 2. Approximate acres to be reseeded is: Bureau 7,700, Service 1,300. Total 9,000.
- 3. Service will reimburse Bureau for aerial seeding cost at contract prices, based on ratio of total acres to Service acres.
- 4. Service will reimburse Bureau for Oahe Wheatgrass seed cost at contract price plus freight, mixing and handling based on ratio of total acres to Service acres.
- 5. Service will provide Bureau with radios for communication purposes at no cost to Bureau. Estimate one radio for aircraft, one for airport, and two Walkie Talkies for ground use.
- 6. Service will assume responsibility for monitoring seed dispersion on all land west of Maple Creek, within the project area. Bureau will assume responsibility for the remaining acreage within project area.

- 7. Each party will provide one employee at Red Flat Airport during the entire seeding operation.
- Project area is set forth on attached map which is made a part of this agreement.
- 9. The portion of this project to be shared in cost is as follows:

	Bureau	Service	<u>Total</u>
Seed	\$53,900.00	\$9,100.00	\$63,000.00
Aerial Application	\$10,164.00	\$2,000.00	\$12,164.00

Above amounts are estimates and may vary depending on actual contract costs.

Termination date for the agreement will be 31 October 10. 1976. Project is expected to begin by October 4 and be completed by October 22, but may vary, depending on weather.

IN WITNESS THEREOF, the parties hereto have caused this agreement to be executed, the Service on September , 1976 and the Bureau on September 145

FOREST SERVICE U.S. Department of Agriculture Shasta-Trinity National Forest

BUREAU OF LAND MANAGEMENT U.S. Department of Interior Redding District

DEPUTY FOREST SUPERA

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I certify that the items listed herein are correct and proper for payment from the appropriation(s) designated.			ect and proper for pay	ment from the a	ppropriation(s) des	ignated.	
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#### STATES DEPARTMENT OF AGRICULTU FOREST SERVICE

REPLY TO:

Financial Management

September 28, 1977

Watershed Protection & Management 2520

SUBJECT:

Emergency Fire Rehabilitation, Skinner Mill Fire

TO:

Forest Supervisor, Shasta-Trinity N.F.



We have been advised that our request for \$2,700 additional FFF-094 obligational authority for FY 1977 has been approved. This is intended to clear the FY 1977 deficit in this account.

DOUGLAS R. LEISZ Regional Forester

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2520 - Watershed Protection (6520) Financial Henagement August 16, 1977

Emergency Fire Rehabilitation - Skinner Mill Fire - Final Burn Rehabilitation Esport (2508)

Regional Forester

Attn: Paul Loger, Vatershed Staff

Attached is our final Emergency Burn Behabilitation report, completed form 2508, for the Skinner Hill Fire.

According to our accounting we have over expended the FY 77 Imergency Burn Rehabilitation FFF 094 estimated need of \$12,000.00 by \$2,690.80. We will need a supplemental allocation of 694 funds to balance out the deficit.

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RICHARD J. PFILF Forest Supervisor

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REPLY TO:

6520 Financial Management

November 3, 1976

(2500)

SUBJECT:

17

FFF Obligational Authority - Emergency Wildfire Rehabilitation, Skinner Mill Fire

To: Forest Supervisor, Shasta-Trinity National Forest



We have been advised by W.O. that your request for Obligational Authority up to \$12,000 during FY 1977, for continuation of emergency wildfire rehabilitation measures on the Skinner Mill burn, has been approved. Expenditures should not exceed this authorization without prior approval.

Douglas R. LEISZ
Regional Forester

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#### D STATES DEPARTMENT OF AGRICULTU FOREST SERVICE

Shasta-Trinity National Forest 1615 Continental St., Redding, Ca.

DEP

REPLY TO:

SUBJECT:

6520 Financial Management

September 23, 1976

(2523) Emergency Rehabilitation of

Regional Forester

Watersheds Following Wildfire

Finances - Skinner Mill Fire Emergency Burn

Rehabilitation FFF 094 funding

ENG

LANDS

FIRE

SOIL

Obligation of FF 094 Emergency Burn Rehabilitation funds for fiscal mini year 76% amounts to an estimated \$21,300 of the initial allocation of \$32,800. The \$7100 Pam 094 money transferred to this Forest will be used as part of the obligated money for this mini fiscal year. This means that approximately \$18,600 FFF 094 funds will be returned to the Region at the end of this fiscal year.

We are now requesting a re-allocation of \$5200 FFF 094 funds in F.Y. 77 to complete the needed emergency burn rehabilitation work.

RICHARD J. PFILF Forest Supervisor JFISHER:ma

#### FOR RIDGETOP FIRE REHABILITATION - SKINNER MILL FIRE

This agreement is made and entered into by and between the California Department of Fish and Game, Region I; the U.S. Bureau of Land Management, Redding, District; and the U.S. Forest Service, Shasta-Trinity National Forest, herein referred to as Fish and Game, Bureau, and Service, under provision of the Act of June 30, 1914 (16 USC 498) and the Act of March 4, 1915 (31 USC 686).

#### WITNESSETH:

WHEREAS, a recent wildfire in the vicinity of Tomhead Mountain, Tehama County, T.27 and 29N., R.8W., created the need for rehabilitation work, and,

WHEREAS, part of the rehabilitation work will require drilling and seeding selected ridgetop terrain within the burn area, and,

WHEREAS, Fish and Game has funds available and wishes to cooperate in financing this project, inasmuch as the expected benefits include improved wildlife habitat and a reduction in stream erosion and,

WHEREAS, the above area is located on lands managed by the Bureau and Service and,

WHEREAS, it will be a cost savings to the government if each agency pools its resources into one joint project,

NOW THEREFORE, it is mutually agreed by and between the parties that:

- 1. Bureau will be the lead agency in all matters pertaining to procurement of seed, fertilizer and equipment, unless otherwise agreed in writing.
- ESTIMATED fuelbreak to be drilled and seeded is: Bureau 200 acres, Service 100 acres, Total 300 acres.
- 3. Costs to be shared are set forth below. Basis for all cost sharing will be 1/3 Service and 2/3 Bureau, except Fish and Game will provide for fertilizer at a cost not to exceed \$3500.00.

Item	Total Est. Cost	Bureau Share	Service Share	Fish & Game Share
Equipment w/Operator	\$11,850.00	\$7,900.00	\$3,950.00	
Seed	\$ 3,960.00	\$2,640.00	\$1,320.00	
Fertilizer	\$ 3,500.00	-0-	-0-	\$3,500.00

It is understood that above costs are estimates and may vary with actual costs.

- 4. Service will provide one employee (full-time), one full drill and one-half drill at no cost to other parties.
- 5. Area to be drilled and seeded is set forth on attached map which is made a part of this memorandum of understanding.
- 6. Nothing herein shall be construed as obligating the Forest Service or Bureau to expend or as involving the United States in any contract or obligation for the future payment of money in excess of Appropriations authorized by Law.
- 7. No member of, or Delegate to Congress or Resident Commissioner shall be admitted to any share or part of this agreement, or to any benefit that may arise therefrom; but this provision shall not be construed to extend to this agreement if made with a corporation for its general benefit.
- 8. This agreement will terminate no later than November 31, 1976.

IN WITNESS THEREOF, the parties hereto have caused this agreement to be executed, Fish and Game on September 23, 1976, the Service on September 31, 1976 and the Bureau on September 33, 1976.

California Dept. of Fish & Game State of California Region 1 Bureau of Land Management U.S. Department of Interior Redding Area

Forest Service U.S. Department of Agriculture Shasta-Trinity N.F.

By William Brown

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REPLY TO:	6520 FINANCIAL	MANAGEMENT		DATE: S	PT- 14, 1	976
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OTHER (SPECIFY)

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REPLY TO:

6520 Financial Management 2510 Watershed Surveys and Plans July 23, 1976

SUBJECT:

Burned Area Rehabilitation - Skinner Mill Fire

TO: Forest Supervisor, Shasta-Trinity National Forest



We have received word from the W.O. that your request for FFF 094 for \$32,800 for rehabilitation measures on the Skinner Mill fire, has been approved. You are therefore authorized to expend FFF 094, not to exceed \$32,800, as per project alternative #3, documented in Burn Area Report dated July 10, 1976.

Your Burn Area Report was approved with the 19% overhead item overlooked. Your attention is directed to FSM 2523.21 (d) where direction is given concerning this item. You may use the entire \$32,800 if needed to meet project costs, but no charges for overhead should be made against FFF.

DOUGLAS R. LEISZ Regional Forester

SHATTO - TORRITY TO RECEIVED

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REPLY TO: 2520 Watershed Protection and Management

July 16, 1976

SUBJECT: Burn Area Report - Skinner Mill Fire,

Shasta-Trinity National Forest

TO: Chief

Attention: Ed Johnson



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Reference our memo of July 15, 1976.

After a benefit/cost evaluation of the proposed rehabilitation work on the Skinner Mill Fire area, The Shasta-Trinity N. F. has reduced their request for funds (094) from \$42,640 to \$32,800.

DAMES I. BOYNTON, Acting Director

Watershed Management Staff

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REPLY TO:

2520 Watershed Protection and Management

July 15, 1976

SUBJECT:

Burn Area Report - Skinner Mill Fire, Shasta-Trinity N. F.

TO:

Chief

Attention: Ed Johnson



Enclosed is the Burn Area Report (BAR) for that position of the Skinner Mill Fire that was within the Shasta-Trinity N. F. boundary (2,950 acres). A copy of this BAR was sent to your office by telecopier on July 14, 1976.

A BAR covering the total fire area (72.000 acres) was also prepared. A copy of this BAR will be mailed to you when it is finalized after a meeting with the California Division of Forestry, Soil Conservation Service and other interested agencies.

JAMES L. BOYNTON, Acting Director Watershed Management Staff

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