United States Department of Agriculture Forest Service Rocky Mountain Region 11177 W. 8th Avenue Box 25127 Lakewood, CO 80225

Date: July 23, 1985

Reply to: 2520 Watershed Protection and Management

Subject: Burned Area Report, Seven Sisters Fire

To: Forest Supervisor, Black Hills National Forest

This is in reply to your July 17, 1985, request for emergency burn rehabilitation funds for the Seven Sisters Fire.

Your request is approved in the amount of \$15,600 for rehabilitation of fire caused watershed damage.

CHARLES J. HENDRICKS

Director, Watershed, Solls, and Minerals Area Management

cc: Fiscal WO, W&AM

GJN: hs

RW

Rocky Mountain Region 11177 W. 8th Avenue Box 25127 Lakewood, CO 80225

Date: July 23, 1985

Reply to: 2520 Watershed Protection and Management

Subject: Burned Area Report, Seven Sisters Fire

To:

Chief

A copy of the Burned Area Report for the Seven Sisters Fire is enclosed.

CHARLE J. HENDRUCKS

Director, Watershed, Soils, and Minerals Area Management

Enclosure

GJN: hs

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Average weighted index

Net social well-being benefit index

EXAMINING IMPACTS OF MANAGEMENT ALTERNATIVES FOR AN EMERGENCY PROGRAM

(Reference FSH 2509,13)

Seven Sisters						Date of Re	POIT 7, 1985
	ENVIRONME	NTAL QUA	LITY BENEFI	TINDEX		Lytrac I	7, 190
	Yielgha		Treatment		Trentrant	Citt	.teuë
Environmental Factor: (a)	Fector (b)	Actual (c)	Weighted (d)	Actual (a)	(I) Welghard	Actuel (g)	Weighted (h)
rosion and sediment	9	2	18	1	9 ·	3	9
Assthetic land quality	3	1	3	1	3	0	0
Vater quality	2	2	4	1	2	3	2
Site productivity	7	2	14	0	0	2	14
Wildlife habitet	6	0	0	O	0	0	0
Fish habitet	1	0	0	0	0	0	0
Other Range	5	0	. 0	0	0	0	0
IOTAL	34		38		. 14		25
Average weighted index			1.1		,41		. 74
Ver environmental quality benefit index					To have been a second		, 74
	B. SOCIAL	WELL-BEIN	G BENEFIT IN	NDEX		1.82	
0 : 10/	Weight		≀-ไ(##เกะคาร	Wi(h	(men)	Diff	et t n c t
Social Criteria (a)	Feator (b)	Actual (c)	Weighted (d)	Actual lei	Weighted (i)	Arturi (g)	Weighted (h).
Life, health, safety	1	1	1	0	0	1	1
Employmant	1	0	0	0	0	0	0
Recreational opportunity	2	1	1	0	0	1	ì
Economie stability	N/A	-	-	_	_	_	0
ncome distribution	N/A	_	_	_	_	-	0
Preserve special sites	N/A	_	-	_	· _	_	0
Other							
TOTAL	4		2		0	Parks, Process	712

C. REMARKS

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At autent Water Resources Council interest	8-/#	5 percent			•	
At where there iterates	1		Demeue E	xpected		
	Units of	Without Tri) Insmitte	With Treat	ment	Experied \$
- USFS Land Only	Alsoura (DI	Na. pl Units (c)	Present Yelue (S) (d)	No. of Units (e)	Present Value (\$) (()	la)
Q	Conscionate to the second		Carlos and the second	No. The Spire Cont	to the second	The Control of the Control
tershed Impacts Sediments	- Caraca Maria					
Downstream water storeds					00.000	29,000
Sadiment removal	Cubic Ydr	. 5,100	51,000	2,200	22,000	29,000
Fish habitat						
. Water quality				PORCE SYNORY CONTROL OF		
lood Water	Elisabeth and any house of		The state of the s			
. Land					<u>,</u>	
. Water Improvements						
. Subtotal, Watershed	Compression and Street	ر داد معاد اختراب بازد از این از ۱۳۰۸ و ۱۳۰۸ و داد داد داد داد داد داد داد داد داد داد		Det market market		
Resource Related Impacts		<u> </u>	1	 	1	,
, Renge						
. Wildlife and recreation	RVD	62	1700	75	2000	300
- 3. Timber	30,900,000		× 1	WH 25520 \$27 CA		
4. Subtatel, Resource Related	Section and the section of the secti	2	S Sancosasses			
Other Impacts	A STATE A STATE OF	de la companya de la	o francisco		1	
1. Soil Fertility	Tons	25,500	153,300	10,950	65,700	87,600
2. Subtatel, Other	Sea. Soul comments		7	*************	•-	
TOTAL DOLLARS	payage materials and all and a	ent for the second seco			·- <u> </u>	116,900

No change in timber expected with or without treatment Sediment removal equals 20% of soil fertility UICA I WITH LANGE

ON-SITE AND OFF-SITE DEVELOPMENTS SUBJECT TO HAZAROS! (Reference FSH 2509.13)

Seven Sisters			0-17-35	1
Ling stems (a)	Tyre of Units (b)	Nombre of Urati (c)	ficinited Value \$ (a)	t
1. Community and urgan dissipations	Propie	0	0	1
2. Municipal and demostic worse supply	Propin Served	O	0	İ
Z. Transportation expenses	Milac	0	0	1
4. Wome alex-liberium syrannus (Irrigation)	Miss	0	0	T
S. Agricultural devaluement (crops, feelbrief	Apre .	0	0	T
4. Industrial development (dame, power, manufacturing).	Number	Ú	0	T
7. Power and parameterisasion lines	Miles	0	0	T
& Kerresian demissioners	PMOT	0	0	T
S. Fish habitest)dE lipt	0.	0 -	†
10. Other (specify)				1
12. Total Harard Processia ²				1
			_i	. i.

12. Herrstine (Opplemel - II sectiolisms) space is needed, attach aneches short.)

There is an insignificant reproduction of worm water fish species on the western shoreline of Angostura Reservoir according to a SD Game, Pish and Parks fisheries biologist. There is an adequate buffer zone between the fire and Angostura Reservoir to filter sediment. Major drainages have sufficient vegetative cover on the bottoms to adequately reduce sediment.

⁴ Hunds from floods, floating debris, proxice, or sediment because a watershed is impaired by wildfire. IDo not include value of secrators demised as destroyed by the fire reported on FS \$100.78.)

I Indicates yourse throughout by drugs storm. Does not enter into the \$10.

				Ca	·AC							
USDA - Forest Suivice				82	K81				Fire North	Seven Claters	sters	ya Tayarini
SUMMARY OF EMERGENCY REHABILITATION NEEDENBY LANDOWNERSHIP	MENGENO	"Y fiehab (Haferenc	IILITATIO	NE PLEED	Siby Land	DOWNERSH	<u>a</u>		Outrof flapor Jul	July 17, 1985	1985	. 1
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						1. 666				4. Criner	S, Mort	
Landownership	A. Acres Burned	(1) Lunci (wcrass)	CJ Crummed (3) Rood & Condest	(3) Rosd & Treit (mikel)	[4] Ottbar	(e)	(6) 302 Fr	Emergency Flood Frewention	3. FR	(Entel	Tuna)	. Tour
FECETAL (MFS)	1700	300				\$27,000						27,000
Üther izpucity												
Sacrotal (MFS)	1700	300				,27,000						27,000
Non-Fédira (State & County) Státě	640	160	: : : : :			シスト	1				14,400	14,400
lidjan reskrivetion		:		1		•				į		
Prineta	6760	635			el Cir Marie Magnes	さいます			:		57,150	57,150
Supreme [lean-Federal]	7400	795	e de la constante de la consta	the second of the second	20 m	11 12 12 12 12 12 12 12 12 12 12 12 12 1					71,350	71,550
TOTAL	9100	1095		·		,27,000					71,550	98,550
D. Bemarks						.		,	-	1 1 1	00 pl	

Costs are for reseeding the Saeding šteep timbered north facing slópes where fire destroyed the timber canopy. burned áress from the sir with native grass species.

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Seven Siaters Fire

JUL 1 9 1985

PIV. Of WS&MAM

Disck Mills National Forest

The Seven Sisters Fire is loosted in Sec. 25,35, and 36, T7S, R5E; Sec. 30 and 31, T7S, R5E; Sec. 1,2,3,10,11,12,13,14,15,22,23,24,25, and 26, T8S, R5E; Sec. 6,7,16, and 19, T8S, R6E. See attached map which phows exterior boundaries of the fire. The northern perimeter of the fire is about 0.5 miles south of Hot Springs, SD. The southern perimeter is FDR 331 (Sheps Canyon Road). The fire was lightning caused.

The area is characterized by flat open ridgetops which drop abruptly into very steep canyons. The canyon sideslopes range from 35%-80% slopes. The northern and eastern aspects have relatively thick stands of ponderosa pine. The southern and western sepects have very sparse stands of ponderosa pine with an understory of little bluestem, sideosts grams, blue grams, prairis junegrass, sedges, western wheatgrass, Rooky Mountain juniper and some shrubs. The flatter ridges are mainly rangeland with scattered ponderosa pine.

The acreage breakdown by ownership is 1,700 acres RPS lands, 640 acres South Dakota State lands, and 6,800 acres private land.

The fire burned severely on the northern and eastern timbered alopes.

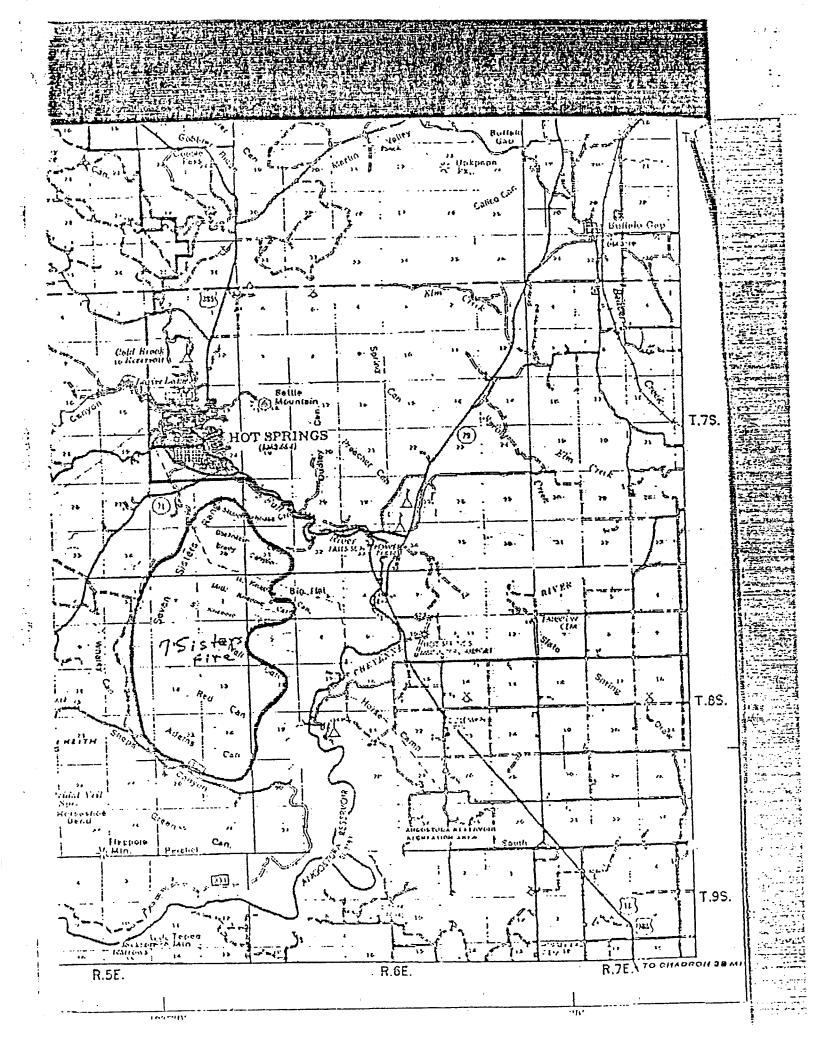
Approximately 300 acres of NFS lands on these alopes were severely burned with few or no needles left on the burned trees. The litter, duff, and understory vegetation was burned leaving bare soil and charred litter which turns to ach when compacted. This asky material will soon be washed or blown away resulting in virtually no ground cover. The very steep alopes will have a severe erosion potential with no or very little ground cover.

The proposed rehabilitation plan includes seeding 300 scree of HFS lands on very steep north and east aspects. These slopes burned severely and have little or no effective ground cover to reduce soil erosion.

The recommended seeding mixture follows:

little bluestem-	6 lbs/acre
sideoats grama-	3 lbs/acre
western wheatgrass.	4 lbs/sore
blue graze-	2 lbs/scre
yellow sweetplover-	2 lbs/sore

There is about 160 spres of severely burned state land and 635 sores neverely burned land in private expension,



(Notes)

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USDA - Forest Service			•	2 62	KIII				Fire Neura	ŧ		Burg Print Chicagon de State
SUMMARY OF EMERGENCY REHABILITATION NEED TRY LANDOWNERSHIP	MERGEN	CY REHAU	REHABILITATIONEN	ON NEEDS	EBY LAW	DOWNER	SHIP		Date of Rapor	Seven Sisters	recers	
		B. E.	Emilypency Re	tation	Nacids	Ö	Source of E	mercency R	lehabilizatio	Duly 17, 1985 o Funds for Mondad v	C. Source of Emergency Rehabilization Funds for Manage Work (5)	١٠ (١٥)
,	4						1. FFF			4. Srnag	S. Plott	
Landownership	enmed Enmed	(1) Land (acres)	C23 Chummat (mileta)	(2) Crummel (3) Road & Trail (make)	(4) Other	(*) 092	(6) 302	Etwerpency Freed Prevention	3. FR & T	Federal (Enter fund)	Ferderal Tund	S. You
Federal (MFS)	1700	000				\$22,000						15,606
Other tepworky												
Subtotal (MFS)	1700	300	The second secon			17,000	1					27.000
Non-Federal (State & County) State	640	160	A Property	The second secon		文文					14.400	14.400 14.400
Indian resonation				10 mm and 10 mm	100							
Private	6760	635		The second secon		至于方	The Control of the Co		100 miles (100 miles (57.150	57,150
Subrotal (Non-Federial)	7400	795					200	-			71-350	71.550
TOTAL	9100	1095		Constitution of the Consti	The second secon	27,980					71,550	98,550
D. Remarks		-	***************************************					4	-		-	87/50

05/68 Seediny šteep timbered north facing slopes uneve fire destroyed the timber canopy. Costs are for reseeding the burned areas from the air with hative grass species.

also - Hob Windersteen - WL+ Range: Suggesteel outhing Seech mix from 19# 10#, 12#almost