United States Department of Agriculture Forest Service Rocky Mountain Region 11177 W. 8th Avenue Shirtfail Box 25127 Lakewood, CO 80225-0127

Reply to: 2520

Date:

APR 16 1991

Subject:

Shirttail Emergency Burn Rehabilitation Request

To:

Forest Supervisor, Black Hills National Forest

I have reviewed your request for Emergency Burn Rehabilitation funds for the Shirttail Incident. Your request is approved in the amount of \$24,800 for seeding, additional road maintenance needs, and ID Team cost.

Emergency Burn Funds have strict requirements as defined in FSH 2509.13. Please use code FFFS-FW22 when expending these funds. A final accomplishment report is required on Form FS-2500-8 thirty (30) days after completing rehabilitation measures.

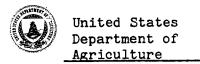
GARY E. CARGILL Regional Forester

cc: Schmidt:W01A MSA O&F Mary Brown S.Libby:R02F03A

JF/ pet







Forest Service Black Hills National Forest Highway 385 North RR 2, Box 200 Custer, SD 57730

Reply to: 2520

Date: April, 11, 1991

Subject: Shirttail Fire Burned Area Survey Report

To: Regional Forester, R-2

Attached is the Burned Area Survey Report and request for emergency rehabilitation funds for the Shirttail Fire.

DARREL L. KENOPS

Enclosures

cc: J. Freeouf, R.O.- WSMAM

JM:jm





SHIRTTAIL FIRE BLACK HILLS NATIONAL FOREST

I. LOCATION OF FIRE (see attached map)

The fire was located in portions of the following 4 townships:

T5S, R4E, Section 36

T5S, R5E, Sections 27,28,31-35

T6S, R4E, Section 1

T6S, R5E, Sections 1-6, 11 & 12

II. CAUSE OF FIRE

The fire was started by lightening on April 3, 1991 and detected April 4.

III.DESCRIPTION OF AREA

The area is typical of the southern portion of the Black Hills. It is characterized by moderately sloping to very steep timbered sideslopes, interspersed with grassy meadows, small stands of decidious trees, and rock outcrops. Open grasslands and parks dominate the lower elevations. Dissection is strong. Geologically, the area is dominated by Minnelusa and Minnekahta limestone, sandstone, and shale. A small portion of the crystalline core protrudes into the northern portion of the fire. Dominant soils are Vanocker and Sawdust. In Wind Cave National Park, much of the area is grassland, with a transition into ponderosa pine as elevations increase. On National Forest System lands, ponderosa pine is the dominant vegetative type. Typical understory species include bluestem, and common snowberry. National Forest System lands within the fire have been designated as Management Area 5C in the Black Hills National Forest Land and Resource Management Plan. Management emphasis is on wood fiber production and elk habitat (forage and cover).

IV. SIZE OF BURNED AREA

The fire burned approximately 2500 acres of National Forest System lands, 1100 acres of Wind Cave National Park, and 600 acres of private lands for a total of 4200 acres.

V. EXTENT OF RESOURCE DAMAGE

High intensity burns (area completely blackened, with all foliage removed from the trees). Most of the high intensity burns are on slopes ranging from 25 - 60%.

- 661 acres of National Forest System lands
- 89 acres of Wind Cave National Park.
- 31 acres of private lands.

Moderate intensity burns (understory burned, and some discoloration and loss of overstory foliage:

1643 acres of National Forest System lands

337 acres of Wind Cave National Park

169 acres of private lands

Low intensity burns (only understory or open meadows and grasslands burned).

196 acres of National Forest System lands

674 acres of Wind Cave National Park

400 acres of private lands

No structures were lost in the fire. Structural engines and burning out were used to protect both private structures and facilities (housing, campground areas, and Park Headquarters within Wind Cave National Park.

Portions of a boundary fence (approximately 1/4 mile) surrounding the water supply area for Wind Cave National Park were burned or damaged by falling trees, and will require repair or replacement. Other damaged fence sections within Wind Cave National Park include approximately 3/4 mile of boundary fence that was burned, and another 1/4 mile damaged to allow access to heavy equipment. A 1/4 mile of buffalo exclosure fence around Elk Mountain Campground was also burned. Several areas of range fence on National Forest and private lands were damaged to provide access for firefighting equipment. These will also be repaired.

Much of the burned area is adjacent to or visible from Highway 385 and roads within Wind Cave National Park. Both of these areas receive heavy visitation by tourists and the local public using the Park. The Park receives approximately one million visits annually.

VI. AFFECTED RESOURCES

Visual quality and esthetics are an immediate concern, especially within foreground areas in Wind Cave National Park and along Highway 385. Much of this area is grassland that was intentionally burned out during the fire control efforts to prevent the fire from damaging structures and crossing Highway 385. Due to the timing of the fire, and the relatively lighter nature of these burns, it is expected that these areas will green-up quickly, mitigating much of the visual quality concerns. Background areas with more heavily damaged timber will require longer to recover. There have been several other large fires within the Black Hills in recent years, and the cumulative effects of these fires will influence visual quality for several years.

The area supports several hundred head of bison, elk, and deer. There will be few, if any, adverse effects on these species in the short-term. Buffalo actually seem to be attracted to burned grasslands. Due to the time of the year when the fire occurred, green-up is expected to be rapid and result in improved forage conditions within meadows and grassland areas. Long-term management of this area will have to address the availability and distribution of cover to insure that this improved forage base can be used effectively by elk and deer.

The short term loss of ground cover will reduce nesting habitat availability for wild turkey, sharp-tailed grouse, and other early season ground nesting birds during the current year. Natural regeneration and rehabilitation efforts will offset this loss within a few growing seasons. The loss of ground cover also makes this area vulnerable to infestation by noxious weeds, especially Canada Thistle. Within the Black Hills, Canada Thistle is an aggressive invader that readily colonizes areas of bare or exposed soil. Control measures taken after Canada Thistle becomes established are expensive and show little effect beyond controling the rate of spread. Eradication on a particular site is seldom achieved. Aggressive management to restore desirable vegetation on disturbed sites is showing promise at reducing the number of new Canada Thistle infestations.

Potential soil loss from erosion will affect much of the area's ability to regenerate and eventually produce timber again. The severely burned areas are characterized by relatively thin and rocky soils, making any soil loss a potentially severe problem. Erosion and siltation are also potential threats to the Wind Cave National Park water supply area, and the Cold Spring drainage, a source of domestic and livestock water for one of the private landowners in the area. No fishery resources are expected to be impacted by the fire.

VII.REHABILITATION STRATEGY

The proposed rehabilitation strategy calls for seeding 661 acres of National Forest System lands that received high intensity burns. The steep to very steep sideslopes have little or no effective ground cover remaining to reduce or prevent soil erosion. These high intensity burned areas also have no needles left on the blackened pines, consequently there will be no needle cast to provide ground cover. Most of this high intensity burn occurred on steep to very steep slopes above the two water supply areas described above. Rehabilitation is recommended to minimize soil losses on these sensitive areas and maintain long-term site productivity, as well as mitigate some of the adverse visual impacts associated with the fire. It is also needed to reduce the possibility of infestation by noxious weeds. There will be some unavoidable on-site displacement of soil until adequate ground cover is re-established.

In addition, about 31 acres of high intensity burns will be seeded on private lands.

The proposed rehabilitation seeding mixture is presented below.

Annual Ryegrass 5 pounds/acre
Slender Wheatgrass 5 pounds/acre
Timothy 3 pounds/acre
Alsike Clover 3 pounds/acre

Total 16 pounds/acre

Aerially seeding with a helicopter is planned and included in the seeding costs presented in the report.

In addition to the soil protection efforts described above, the Rehabilitation Plan includes funding for additional road maintenance on 13.9 miles of system roads. It is expected that sediment from burned areas will increase road maintenance needs and frequencies in this area.

Date	or	Report		
4,	/10/	/91	 	

BURNED AREA REPORT (Reference FSH 2509.13, Report FS 2500-A)

							······································
		PART I - T	YPE OF REQU	EST			
1. Type of Report A. [X] Funding	(Request for estin	mated FFF :	funds)	В. []	Accomp	lishment	Report
B. [] Interim a. [] b. [] C. [] Final	(estimated funding Updating the init Supplying informates	ial fundin tion for a	g request ccomplishme	ents to da			
	Collowing completi						
		PART II -	FIRE LOCAT	LION			
1.Fire Name (From Fo	1	(From FS-	5100-29)	Fire No.	3.Stat	te 4.Cour Cus	
	7.Ranger Dis	S	Date Fire tarted /3/91	9.Date F Control 4/8/91	ire		ted Suppression
11.Fire Suppression a. 9.9 miles (1	firelines waterbar			es (firel:	ines se	eded) c	. Other (identify) 10 acre fire camp
12.Fire Intensity a. 30 %(10w)	PART III - N	50 %(M DRORI FM		0 %(bi	gh)
1.Watershed No.	2.NFS Acres Burned		r Repellan		THARM	0111	
10120109	2500		26	%of NFS	acres b	urned	
4.Vegetation Types Ponderosa Pine/Litt Aspen. & Bluegrass I			•	Types a limesto ata limest			
6.Soil Erosion Haza						7.Erosion	n Potential #
a. 10 %(low)	b. 70 %(med	lium)	c. 20 %	(high)	[12,907	cu.yds/sq.miles
8.Miles of Forest S 1st Order - 9.9 2nd Order - 2.7		Regional (der - 0.9	Order or Cl	asses		9.Miles Trails 0	of Forest Service
10.Miles of Forest	Service Roads By M	Maintenanc	e Levels	#			
a. <u>0</u> miles (Level I) b.	13.9 mil	es (Level I	[I) c.	0	miles (L	evel III, IV, V)
	PART IV - CA	ALCULATED	RISK AND CI	LIMATIC EV	/ALUATI	ON	
1.Estimated Design 5 years	Recurrence Period	(Years)	2.Chance	e to Succe	ess Des	ired By M	anagement (Percent
3.Equivalent Design	Recurrence Period	d (Years)	4.Relate	ed Design	Storm	Duration	(Hours)
5.Related Design St	orm Magnitude (Ind	ches)		ed Design	Flow (cfsm)	
7.Estimated Reducti	on In Infiltration	n (Percent) 8.Adjust	ted Relate	ed Desi	gn Flow (cfsm)
	this form is obs	olete.	1			FS-25	500-8 (11/82)

Previous edition of this form is obsolete.

•									1321 414 6 -
a.[X] Hydrology			-			_			
g.[] Fire Mgmt.	h.[X]	Eng.	i.[] Contr.	j.[X] L	ocal Mgm			
							Nationa		
Describe Emergency	: Prot	ection	n of sit	e producti	vity on th	in soils	and steep		
= -				_	-		-		
									nce
mits of Forest Pla	n. Red	luce 1	ikelyhoo	od of Canad	a Thistle	invasion	requiring	costly cont	rol
Describe Emergency: Frotection of site productivity on thin soils and steep slopes within area rand by fire. Rehabilitation needed to prevent erosion and notions weed infestations. Remarks Remarks									
Probability of Com	pleting	Trea	tment Pr	rior to Fir	st Major D	amage P	oducing St	orm	art j
60 %(land)	b. 60	2 %(channel)) c. <u>60</u>	%(roads	s) d.	%(ot		
.Net Environmental	Quality	Bene	fit Inde	ex 6	.Net Socia	l Well	Being Benei		
a.[X] Significant	ь.Г	Not :	Signific	cant	a.[] Sig	nifican	t b.[X]!	Not Significa	int _
									
,	ĺ							I d.[] I\	7
3.5:1		\$62,	345	i		-			
	IGIBLE			HABILITATIO	ON MEASURES	OR TRE	ATMENTS &	SOURCE OF FU	NDS
						-			-
		-							
	1		i	NFS LAND	5	1	OTHER LA	NDS	ALL
	1	1				<u> </u>			
Line Items	Units	Unit	No.of	FFF 092	Other \$	No.of	Federal \$	Non-Federal	
	1	Cost	Units	i		Units		· ———	\$
	1	1	1	1	Identify	l	Identify	Identify	
(1) A. LAND	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	
Seeding	Acres	\$25	661	\$16,525				1	\$16,525
Seeding pvt land				1		31		\$775	\$ 775
		<u> </u>				ł	1		17300
	<u> </u>	<u></u>	<u> </u>			<u> </u>	l	<u> </u>	· · · · · · · · · · · · · · · · · · ·
	<u></u>	<u> </u>	<u></u>	1	<u> </u>	<u> </u>	<u> </u>	<u></u>	
(1) B. CHANNELS	1	1	1	<u>L</u>	<u> </u>	L		11	
Opening water		I	1	1		1	1	1 1	
courses	Miles	<u> </u>	1	<u> </u>		<u></u>	1	1	
Stabilizing	1		1	1		1		1	
Streambanks	Miles	1	<u> </u>	L	1	1	1		
Sediment fence	struc	t	1		1				
	struc	t				1	<u> </u>		
. Tree Felling			1						
	1	1	1		1				
ROADS & TRAILS			1	<u> </u>	<u> </u>	<u> </u>			
	miles		13.9	\$ 5,500					\$ 5,500
.Maintain drainage			1				1		
			1		L	1		<u> </u>	
					1	1		<u> </u>	
	<u> </u>	1	<u>. L</u>						\$ 2,000
	 	<u> </u>		\$ 2,000	1	1			\$ 2,000
ID Team costs		<u> </u>	<u> </u>	\$ 2,000	1	1.		1	<u> </u>
ID Team costs		 	4.	\$ 2,000 		1	<u> </u>	1	<u> </u>
ID Team costs MAJOR STRUCTURES Preplanned - from	 	 		\$ 2.000 		1.	. 		
. ID Team costs D. MAJOR STRUCTURES . Preplanned - from Forest Plans	 						. . .		
. ID Team costs D. MAJOR STRUCTURES . Preplanned - from Forest Plans		1			 	 		\$775	\$24.800
. ID Team costs D. MAJOR STRUCTURES . Preplanned - from Forest Plans E. TOTAL	<u> </u>	 		 \$24.025 PART VII		ş	FORESTER		
. ID Team costs D. MAJOR STRUCTURES . Preplanned - from Forest Plans	<u> </u>		1			ş	FORESTER	\$775	
. ID Team costs D. MAJOR STRUCTURES Preplanned - from Forest Plans TOTAL	<u> </u>	ature)		 \$24.025 PART VII		ş	FORESTER		

EXAMINING IMPACTS OF MANAGEMENT ALTERNATIVES FOR AN EMERGENCY PROGRAM

(Reference FSH 2509.13)

ire Name					•	te of Repo	ort
hirttail						/10/91	
			Y BENEFIT]		notmont	Diffe	erence
	Weight	Without	Treatment Weighted	Actual I	letabted		
		(c)	(d)	(e)	(f)	(g) -	(h)
(a)	<u> (b) </u>	(6) 1	<u>(u)</u>	<u> </u>	<u></u>		
1. Erosion and sediment *	1 10 1	1	10	1 0 I	0 1	. 1 .	10
1. Erosion and sediment	1 1	1		1		1	
2. Aesthetic land quality *	1 2 1	1	2	, . 1	2	0	0
2. Aesthetic land quarrey	1 1			1		1	
3. Water quality *	1 1	1	1	0	0	11	-11
J. Water quarty	1					1	
4. Site productivity *	4	2	8	1 1	4	1	4
<u> </u>	l i			1		1	
5. Wildlife habitat *	4	1	4	1 1	4	0	0
		1		1			
6. Fish habitat *	1			11		<u> </u>	<u> </u>
				1 1		1	
7. Other *(Noxious Weeds)	3	2	6	1 1	3	1 1	3
=	1	//////		1//////		1///////	
8. TOTAL *	24	//////	31	1/////	13	1//////	18
	1/////	//////		1//////		1///////	
9. Average weighted index *		1/////		 		1///////	
	1/////	//////	///////////////////////////////////////	1//////	///////	1///////	
0. Net environmental quality benefit index*	1/////	//////	///////////////////////////////////////	1//////	11111111	1//////	0.75
			ENEFIT INDE				
	Weight	Without	Treatment	With Tr	eatment	Diffe	rence
Social Criteria	Factor	Actual	Weighted	Actual	Weighted	Actual	Weighted
(a)] (b)	(c)	(d)	(e)	(f)	(g)	(h)
	1		,	1			
1. Life, health, safety *	1	0	0] 0	0	0	0
	l ·	1	1	1		1	
2. Employment *	1	0	0	0	0	1 0	0
	1	1	1	l	1	1	
3. Recreational opportunity *	1 2	1	2	1 0	1 0	<u> </u>	2
	1	1	1	1	1 .	1	
4. Economic stability * /	1 1	0	0	1 0	0	0	0
į.	1	1	t .		1		!
5. Income distribution *	1 1	0	0	1 0	0	10	0
	1	ł	1		l	1	1
6. Preserve special sites *	1	1 0	0 -	1 0	0	0	0
	1		1	1	1	1	1
7. Other *		<u> </u>	1		<u> </u>	<u> </u>	<u> </u>
	1	1//////	1	1//////	1	1//////	
8. TOTAL *	1 7	1//////	2	1//////	0	1//////	2
	1/////	1//////	1	1//////	1	1//////	
9. Average weighted index *		1//////		1//////		1///////	
	1/////	1//////	1//////////////////////////////////////	////////	1//////	/\//////	1
10. Net social well-being benefit index *	1/////	1//////	1/////////	////////	1/////	///////////////////////////////////////	0.28
		REMARKS					
No net differences in wildlife habitat cond	itions a	re displ	ayed becau	se of cor	flicting	habitat r	eeds
between wildlife species. Big game species	, and ot	hers nee	ding early	successi	onal hab	itat will	benefit
from improved conditions, but ground nestin	g birds	and wild	life needi	ng mature	forest	habitats v	ill be
negatively impacted due to habitat losses.							
	··			,	-		Page 2 of

Note: At current Water Resources Council interest rate 8.875 percent

	1	1	Damage			
	Units of	Without	Treatment			Expected \$
Economic Benefit Indices	Measure	No. of	Present	No. of	Present	Damage
	1	Units	Value(\$)	Units	Value(\$)	Reduction
(a)	(b)	(c)	(b)	(e)	(f)	(g)
I. Watershed Impacts Sediments	1///////	11/1///	///////////////////////////////////////	1//////	///////	///////////////////////////////////////
	1	1		1		1
1. Downstream water storage *		<u> </u>		1		A**
	1	1	1	1	I	
2. Sediment removal *						
	Į.	1	1	1]
3. Fish habitat *		<u> </u>	<u> </u>			<u> </u>
	ļ	!	ļ ·	ļ.		ļ
4. Water quality *		<u> </u>			<u> </u>	1
II. Flood Water		1//////		<u> </u>	1//////	\/////////////////////////////////////
W.	!	!	!		l	1
1. Land *		1	<u> </u>	<u> </u>	<u> </u>	<u> </u>
	l !	1	į ,	1	 	!
2. Water Improvements *	1,,,,,,,,	1	<u> </u>	1,,,,,,	<u> </u>	1
2 Outhors Hotomaked	\/////////////////////////////////////		-	\////// \//////		1
3. Subtotal, Watershed *			<u> </u>			1//////////////////////////////////////
III. Resource Related Impacts	1//////////////////////////////////////	1///////	<i>1//////////</i> 1	/ <i>////////////////////////////////////</i>	1 <i>/ / / / / / / /</i> /	1
1. Range *	-	1	! 	1	1	1
1. Range		<u> </u>	<u> </u>	1	<u> </u>	1
2. Wildlife and recreation *	WFUDS	142	 \$13,464	-472	ı 1-\$44.755	\$58,219
z. Wilding did 100102010.	1	1	1	1	<u> </u>	1
3. Timber *	i	i	i	i	i	
	1////////	1//////		1//////	1	
4. Subtotal, Resource Related *	1///////		•		•	\$58,219
IV. Other Impacts				/\/////	1///////	1//////////////////////////////////////
		1		1		1
1. SOIL FERTILITY	TONS	9659	\$44,447	3,133	\$15,521	\$28,926
	1///////	1//////	1	1//////	1	1
2. Subtotal, Other *	1////////	4//////	\$44,447	1//////	\$15,521	\$28,926
	1///////	1//////	1	1/////	•	1
V. TOTAL DOLLARS *	1////////	11//////	\$57,911	1//////	-\$29,234	\$ \$87,145
	E. REMAI	RKS				

Wildlife values represent the dollar value of WFUDS expected as a result of the increased availability of forage in the first year following the fire. It is assumed that forage is limiting in this area and an increase in forage will result in an increase in big game populations. A value of 1.35 WFUDS/1000 pounds of forage was used based on Forest TSPIRS calculations. Values in the "with treatment" columns are displayed as negative values to reflect "negative damage", ie positive benefits, over pre-burn conditions. The negative values are used to make the mathematical difference (column d minus column f) between the without and with treatment options reflect the expected benefits to wildlife from the increase in forage production. Soil erosion values were based on erosion losses over a 9 year period and discounted to present values.

USDA-Forest Service

ON-SITE AND OFF-SITE DEVELOPMENTS SUBJECT TO HAZARDS

(Reference FSH 2509.13)

Fire Name			Date of Report
Shirttail			4/10/91
Line Itcms	Type of	Number of	Estimated
	Units	Units	Value \$
(a)	(b)	(c)	(d)
	i		A Things
1. Community and urban development	People	0	0
	People		1
2. Municipal and domestic water supply	Served	0	0
	- I	•	1
3. Transportation systems	Miles	0	0
	ļ	ļ	1
4. Water distribution system (irrigation)	Miles	0	0
	1	1	1
5. Agricultural development (crops, facilities)	Acres	0	0
	1	1	1
6. Industrial development (dams, power, manufacturing)	Number		0
2	1	I	1
7. Power and communication lines	Miles	0	10
	1		1
8. Recreation development	PAOT	0	
	1	1	1
9. Fish habitat	Miles	0	0
	1	1	1
10. Other (specify)		1 0	0
2	XXXXXXXX	XXXXXXXX	1
11. Total Hazard Potential	XXXXXXXX	XXXXXXXXX	0

[12. Narrative (Optional- if additional space is needed, attach another sheet).

No developments on or off site subject to flooding or other damage as a result of the fire.

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 reported on FS-5100-29.)

 $^{^{\}rm 2}$ Indicates values threatened by design storm. Does not enter into the B/C.

SUMMARY OF EMERGENCY REHABILITATION NEEDS BY LANDOWNERSHIP (Reference FSH 2509.13)

Fire Name Shirttail |Date of Report

							. 4	/10/91						
	1			Ι		B. Emergency Rehabilitation Needs								
	ļ	A. A	cres	[(1)) Land	(2)	Channel	(3) R	oad &	(4) Ot	her			
Landownership	1	Burr	ed	(a	cres)	(mi	les)	Tra	il	1				
	1			<u> </u>		stru	ctures	(mil	es)					
	1			1		!								
Federal (NFS) *		2,50	10	<u> </u>	661	1		<u> </u>						
Other (specify) *				<u> </u>				<u> </u>						
Subtotal (NFS) *	!	2,50	00	 	661	<u> </u>		<u> </u> 		i 				
Non-Federal (State & County) *	 !			 	·	<u> </u>				 				
Indian reservation *		,		1		<u> </u>		<u> </u>		<u> </u>				
Private *		60	00	1 	31	1					:			
Subtotal (Non-Federal) *		60	00	 	31	 								
TOTAL *	1	 3,10	00	1	692	1		1		· -				
C. Source of I	Emerger			tati		s for	Needed Wor	k (\$)						
	1	1. 1					3. FR & 1		ner	5. Non-	6.	Total		
	i			i	Floo		1			Federal	1			
	1			1	Prev	ention	ļ	(E	nter	(Enter				
Landownership	(a)	092	(b) 1	102			1	f	ınd)	fund)	1	* * * * * *		
	1			1				1		State	1			
	1			1			<u> </u>	1		& Pvt	1			
	1		1	1			1	1		1 (2)	1			
Federal (NFS) *	[\$24,0	025	L	1	•		<u> </u>	1			\$24,	025		
Other (specify) *	<u> </u> 		<u> </u> 	 			<u> </u>	<u> </u> _1						
Subtotal (NFS) *	 \$24.0	025		1			· 	1	i .	1 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	 \$24,	025		
Non-Federal (State & County) *			 					1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1			
	Ì		1	$\overline{}$			1	Ī		1	1 "			
Indian reservation *	!		<u> </u>	i			1	1		<u> </u>	<u> </u>			
Produce to the	1		 -	1			1	1		 \$775	Is	775		
Private *	<u> </u>		<u> </u>				1	_ <u></u> 		1 3117 -	1	<u> </u>		
Subtotal (Non-Federal) *	1		i İ				<u> </u>	<u> </u>		\$775	İs	775		
							1	1		1	 \$24,	800		
TOTAL *			!	1			.1			1	1324,	000		

D. Remarks

