USDA-FOREST SERVICE FS-2500-8 (7/00)

Date of Report: 7/15/05

WIDE CANYON BURNED-AREA REPORT

(Reference FSH 2509.13)

PART I - TYPE OF REQUEST

[X] 1.	Funding request for estimated WFSU-SULT funds
[]2.	Accomplishment Report
[]3.	No Treatment Recommendation

[] 3. Final Report (Following completion of work)

B. Type of Action

A. Type of Report

- [X] 1. Initial Request (Best estimate of funds needed to complete eligible rehabilitation measures)
 [] 2. Interim Report
 [] Updating the initial funding request based on more accurate site data or design analysis
 [] Status of accomplishments to date

PART II - BURNED-AREA DESCRIPTION

- A. Fire Name: Wide Canyon B. Fire Number: PDBW46
- C. State: <u>Utah</u> D. County: <u>Washington</u>
- E. Region: Intermountain F. Forest: Dixie
- G. District: Pine Valley
- H. Date Fire Started: June 29, 2005

 I. Date Fire Contained: July 5, 2005
- J. Suppression Cost: \$1,000,000
- K. Fire Suppression Damages Repaired with Suppression Funds
 - 1. Fireline and Dozerline waterbarred and rehabilitated (miles): 2.5
 - 2. Fireline and Dozerline seeded (miles): 2.5
- L. Watershed Number:
- M. Total Acres Burned: 1,715 NFS Acres(1,032) BLM (633)
- N. Vegetation Types: Pinyon-Juniper
- O. Dominant Soils: The soil are dominanted by moderately deep and shallow soils with 25 to 40 or more precent rock fragments intermixed with rock outcrop.
- P. Geologic Types: Basalt.

R.	Transportation System						
	Trails: 0 miles Roads: 2.7 miles						
	PART III - WATERSHED CONDITION						
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Α.	Burn Severity (acres): 658 (unburned) 1009 (low) 48 (moderate)						
B.	Water-Repellent Soil (acres): 0						
C.	Soil Erosion Hazard Rating (acres): 345_(low)1370 (moderate)0 (high)						
D.	Erosion Potential: 0.5 tons/acre						
E.	Sediment Potential:50_ cubic yards / square mile						
	PART IV - HYDROLOGIC DESIGN FACTORS						
A.	Estimated Vegetative Recovery Period, (years): 3-5						
B.	Design Chance of Success, (percent):						
C.	Equivalent Design Recurrence Interval, (years):						
D.	Design Storm Duration, (hours):						
E.	Design Storm Magnitude, (inches):						
F.	Design Flow, (cubic feet / second/ square mile):						
G.	Estimated Reduction in Infiltration, (percent):						
Н.	Adjusted Design Flow, (cfs per square mile):						
	PART V - SUMMARY OF ANALYSIS						
A.	Describe Watershed Emergency:						
Th Ro	reats to Property and Human Life: reats to Road Infrastructure ad drainage was evaluated on Forest Road 033 to determine if they can function with anticipated increased ws. 19 rolling dips will need to be re-enforced for anticipated post fire hydrologic events associated with the						

Q. Miles of Stream Channels by Order: 4.5 miles of Order 1 and 3.6 miles of Order 2 stream channels.

Threats to Unacceptable Resource Degradation:

BAER effort.

ATV encroachment and other off road travel is a concern to resource degradation and vegetative recovery; it is recommended that 5 signs be placed along critical resource areas along the FS Road 30033 to prevent

unacceptable degradation. The signage would keep ATV traffic away from sensitive resources and would help educate and notify forest users of potential excessive degradation to burned watersheds.

The vegetative recovery of the Wide Canyon fire is currently at risk along 1.4 miles of boundary between NFS and BLM. The NFS lands adjacent to BLM property have had their allotments retired but the BLM allotments are active. The threat of slow vegetative recovery on NFS lands with no barriers to prevent grazing on NFS land will restrict recovery on these burned watershed. It is recommended that 1.4 miles of temporary fence be built on the boundary to prevent the over utilization of the initial vegeative recovery. Currently this treatment is being addressed with the BLM to determine if they can fund this with their emergency stabilization program.

Threats of Noxious Weeds and Invasive Plant Invasion:

To determine the need for future treatments, monitoring will be conducted to document if increased noxious weed invasion is occurring within the wildfire perimeter. During the fire suppression activities fire transportation equipment and engines utilized areas near Wide Canyon area where noxious weeds are present. Monitoring will begin in fiscal year 2006.

B. Emergency Treatment Objectives:

The primary purpose of the proposed emergency rehabilitation is to take prompt actions deemed reasonable and necessary to effectively protect, reduce or minimize significant threats to unacceptable resource degradation, property and human life and noxious weeds and invasive plants. The emergency treatments being recommended by the Wide Canyon BAER Team are specifically designed to achieve the following results.

- 1) Provide for public safety (road and flood hazard identification) and promote fire recovery by communicating the post fire hazards to the public.
- 2) Limit colonization and/or expansion of noxious weeds and invasive plants species onto National Forest System lands.
- 3) To assist in the natural vegetative recovery of burned watersheds.

	C.	Probability	√ of	Comp	oletina	Treatment	Prior to	First Ma	aior Dama	ge-Producing	Storm:
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Land	%	Channel	%	Roads	75	%	Other	%
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D. Probability of Treatment Success

	Years after Treatment							
	1	5						
Roads	90%	95%	95%					

E. Cost of No-Action (Including Loss):

Value at Risk	Estimated Cost
Damage to Roads	\$60,000
Noxious Weed Encroachment	\$103,200
ATV damage to Watershed (rutting, vegetative trampling)	\$516,000
Total	\$679,200

F. Cost of Selected Alternative: (Including Loss); The treatment of the rolling dips drainage improvements has a 25% chance of failure from slow implementation or exceedingly high precipitation; The estimated possible loss would be \$15,000 for supplemental road repair plus the treatment cost of \$4,047. The signage to prevent potential ATV damage is estimated at 90% effective in deterring use on burned landscape. This would possibly

expose 100 acres of to rutting, compaction and vegetative trampling with a cost of \$500/acre to repair the damage. The potential total cost of ATV damge would be \$51,500 from damges plus \$500 for signage. The noxoius weed monitoring detects typically 70% of the initial weed locations; 30% of the burned areas has a potential of weed expansion. Typically it cost \$100 an acre to treat noxoius weeds and for the 310 acres at risk (1032 acres with 30% potential of noxoius weed expansion) would potentially cost \$31,000 plus \$900 for monitoring.

Treatments/Monitoring Selected	Estimated Cost
Rolling Dip Road Drainage Improvements	\$19,047
ATV signage for prevention of resource damage	\$52,000
Noxoius Weed Monitoring	\$31,900
Total	\$102,947

G. Skills Represented on Burned-Area Survey Team:

[X] Hydrology	[X] Soils	[] Geology	[X] Range
[] Forestry	[X] Wildlife	[] Fire Mgmt.	[X] Engineering
[] Contracting	[] Ecology	[X] Botany	[X] Archaeology
[X] Fisheries	[] Research	[] Landscape Arch	[X] GIS

Team Leader: Richard Jaros

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H. Treatment Narrative:

Roads and Trail Treatments:

ATV signage for prevention of resource damage.

Off-Road (ATV) encroachment and other off road travel is a concern in this area. Signage will be placed at critical resource areas to prevent unacceptable degradation to the watershed. The signage proposed would help educate and notify forest users of potential excessive degradation to burned watersheds.

Example of ATV (Off-Road) signs:

ATTENTION: OHV RIDERS

This OHV trail is open for your recreation pleasure. Please stay on the designated trial.

The immediate area off the trail is closed for burned area recovery.

Riding off the trail is a violation of Federal regulations and punishable by fine and/or imprisonment.

Road Drainage

2 miles of road was examined in the field by the road engineer to evaluate road drainage and considered within the observations were: burn severity, basin area, soil type, basin terrain, potential storm intensity, and vegetative type/composition. 17 road dips are needed to be rebuilt based upon expected flow and two additional dips will be needed were excessive erosion is predicted.

I. Monitoring Narrative:

A detailed monitoring plan will be submitted as a separate document to the Regional BAER coordinator.

Monitoring will begin in fiscal year 2006.

Noxious Weed and Invasive Plant Monitoring

Monitor the location of the known sites and likely sites for new infestations and implement control actions as specified in the Noxious Weed Amendment to the Dixie Forest Plan (2000). Randy Russell (Pine Valley Range Conservationist) will be responsible for this monitoring effort.

Wide Canyon BAER
Noxious Weed Monitoring

OBJECTIVE: Monitor noxious weeds the Wide Canyon fire perimeter to prevent an outbreak.

ITEM TO MONITOR: Presence and noxoius weed within the burn perimeter.

TYPE OF MONITORING: Site visit/occular

METHODS/PARAMETERS: Visit known location of noxoius weeds. Grid exam in burned areas and along road corridors.

FREQUENCY/DURATION: FY06.

PROJECTED COSTS: \$900.00

REPORTING PROCEDURES: Annual Wide Canyon BAER Monitoring Report

RESPONSIBILITY: Randy Russell, Range Conservationist

Part VI – Emergency Rehabilitation Treatments and Source of Funds by Land Ownership

_		Unit	# of	WFSU		X	# of	Fed	# of	Non Fed	Total
Line Items	Units	Cost	Units	SULT \$	\$	X	units	\$	Units	\$	\$
						8					
A. Land Treatments						8					
				\$0	\$0	Ž		\$0		\$0	\$0
				\$0	\$0	XI.		\$0		\$0	\$0
				\$0	\$0	,					
				\$0	\$0	7		\$0		\$0	\$0
Subtotal Land Treatments				\$0	\$0	X		\$0		\$0	\$0
B. Channel Treatmen	its					X			•		
				\$0	\$0	X		\$0		\$0	\$0
				\$0	\$0	X		\$0		\$0	\$0
Subtotal Channel Treat.				\$0	\$0	X		\$0		\$0	\$0
C. Road and Trails						X					
Signage	signs	100	5	\$500	\$0	X		\$0		\$0	\$500
Rolling Dip Drainage						X					
Improvements	each	213	19	\$4,047	\$0	×		\$0		\$0	\$4,047
				\$0	\$0	X		\$0		\$0	\$0
Subtotal Road & Trails				\$4,547	\$0	X		\$0		\$0	\$4,547
D. Structures						X			•	•	
				\$0	\$0	Ø		\$0		\$0	\$0
				\$0	\$0	X		\$0		\$0	\$0
Subtotal Structures				\$0	\$0	8		\$0		\$0	\$0
E. BAER Evaluation						8					
BAER Assesment	days	300	15	\$4,500	\$0	8		\$0		\$0	\$4,500
				\$0	\$0						
Subtotal Evaluation				\$4,500	\$0			\$0		\$0	\$4,500
F. Monitoring						8					
				\$0	\$0	8		\$0		\$0	\$0
				\$0	\$0	~					·
Subtotal Monitoring				\$0	\$0			\$0		\$0	\$0
<u> </u>				, -	, ,	X					, ,
G. Totals				\$9,047	\$0	Ø		\$0		\$0	\$9,047

PART VII - APPROVALS

1.	/s/ Robert A. Russell Forest Supervisor (signature)	7/18/2005 Date
2.	_/s/ William P.LeVere for Regional Forester (signature)	_07/20/2005 Date