P. Geologic Types: Metasedimentary

Date of Report:

### **BURNED-AREA REPORT**

(Reference FSH 2509.13)

## PART I - TYPE OF REQUEST

A.	Type of Report								
	<ul><li>[X] 1. Funding request for estimated WFSU</li><li>[] 2. Accomplishment Report</li><li>[] 3. No Treatment Recommendation</li></ul>	I-SULT funds							
В.	3. Type of Action								
[X] 1. Initial Request (Best estimate of funds needed to complete eligible rehabilitat									
	<ul> <li>[] 2. Interim Report</li> <li>[] Updating the initial funding request based on more accurate site data or design analysis</li> <li>[] Status of accomplishments to date</li> </ul>								
	[] 3. Final Report (Following completion of work)								
	PARTII - BUR	RNED-AREA DESCRIPTION							
A.	Fire Name: Jimtown	B. Fire Number: MT-HNF-019							
C.	State: MT_	D. County: Lewis and Clark							
E.	Region: 1	F. Forest: Helena							
G.	District: Helena Ranger District								
Н.	Date Fire Started: July 13, 2003	I. Date Fire Controlled: Contained July 20th  Not yet Controlled							
J. :	Suppression Cost: \$1,271,746 estimated	·							
K.	Fire Suppression Damages Repaired with Suppression Funds  1. Fireline waterbarred (miles): 3.3 miles of dozer line, 2.2 miles of hand line  2. Fireline seeded (miles): 3.3 miles of dozer line  3. Other (identify):								
L.	Watershed Number: 100301011507B Horse Gulch and 100301011507A Oregon Gulch								
M.	. Total Acres Burned: 1,048 NFS Acres(998.4) Other Federal ( ) State ( ) Private (49.6)								
N.	Vegetation Types: Ponderosa Pine/bluebunch wheatgrass								
Ο.	Dominant Soils: Typic ustochrepts structural b	<u>penches</u>							

Q. Miles of Stream Channels by Order or Class: 2.04 miles of first and second order intermittent or dry ephemeral draws and gulches R. Transportation System Trails: miles Roads: 4.2 miles PART III - WATERSHED CONDITION A. Burn Severity (acres): 423.8 (low) 508.7 (moderate) 115.5 (high) B. Water-Repellent Soil (acres): Less than 5% (52 acres) C. Soil Erosion Hazard Rating (acres): (low) 524 (moderate) 524 (high) D. Erosion Potential: 10-50 tons/acre E. Sediment Potential: 700 cubic yards / square mile (Sediment potential low since there are no perennial streams in the area) PART IV - HYDROLOGIC DESIGN FACTORS A. Estimated Vegetative Recovery Period, (years): 90 B. Design Chance of Success, (percent): C. Equivalent Design Recurrence Interval, (years): 10 D. Design Storm Duration, (hours): \_1\_\_ 0.81 E. Design Storm Magnitude, (inches): F. Design Flow, (cubic feet / second/ square mile): 68 G. Estimated Reduction in Infiltration, (percent): 5

#### PART V - SUMMARY OF ANALYSIS

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H. Adjusted Design Flow, (cfs per square mile):

A. Describe Watershed Emergency: The Jimtown fire burned approximately 1048 acres on the Helena National Forest. Approximately 11% of the fire was of high severity, 40% low severity and the remaining 49% moderate severity. Very little hydrophobicity was noted in the burned area. There is one small catchment (12 acres) which has a high severity rating and is poised above private property. One small storage shed/out building is located at the mouth of this catchment. During a high intensity thunderstorm it is projected that water will once again start to flow in this draw and possibly flood the out building carrying with it a significant amount of debris/mud. While there are other draws that are expected to have accelerated erosion and runoff they are positioned in places where there will be no loss of life or property.

one small ca	atchment aw	ay from stoa		ouilding. In addition the	s to direct anticipated flood flows in objective is to reduce erosion and
C. Probabilit		J		Major Damage-Produci	
D. Probabilit	y of Treatme	nt Success			
	Yea	rs after Treat	tment		
	1	3	5		
Land	80	90	90		
Channel	100	100	100		
Roads					
Other					
E. Cost of N	No-Action (Inc	cluding Loss)	<u>: \$15,000</u>		
F. Cost of S	Selected Alter	rnative (Inclu	ding Loss) <u>: \$7</u>	000	
G. Skills Re	presented or	n Burned-Are	a Survey Tear	n:	
[X] For	restry [ htracting [X	X] Soils ] Wildlife (] Ecology   Research		[] Archaeology	[] [] []
Team Leade	er <u>: Bo Stuart</u>				
Email: bstua	ırt@fs.fed.us	<u> </u>	Р	hone: (406) 449-5201 e	xt. 245
FAX: 406 44	19 5436				

#### H. Treatment Narrative:

<u>Land Treatments</u>: Hydromulch small catchment area with native seed mix and remove hazard trees from high traffic roads in burned area. Place weed free straw mulch in catchment area adjacent to private land where hydromulcher can not get to.

<u>Channel Treatments</u>: treatment will consist of constructing small earthen berm at the bottom of a small catchment to direct any flood flows away from small outbuilding into adjacent field.

Roads and Trail Treatments: None

Structures: None

H. **Monitoring Narrative:** Monitoring will consist of no more than four site visits after major storms to determine if berm is properly functioning and to determine effectiveness of hydromulch and straw mulch.

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

			NFS La	nds	_	8		Other L	ands		All
		Unit	# of	WFSU	Other	8	# of	Fed	# of	Non Fed	Total
Line Items	Units	Cost	Units	SULT \$	\$	XXXXXX	units	\$	Units	\$	\$
						X					
A. Land Treatments						X					
Hydromulch w/native	acres	1500	1	\$1,500				\$0		\$0	\$1,500
Straw mulch	acres	1500	1	\$1,500		X		\$0			
Remove hazard trees	days	201	2	\$402		X		\$0		\$0	\$402
				\$0		X		\$0		\$0	\$0
Subtotal Land Treatments				\$3,402		8		\$0		\$0	\$1,902
B. Channel Treatmen	its					8					
Placement of berm	each	225	1	\$225		8		\$0		\$0	\$225
				\$0		8		\$0		\$0	\$0
				\$0		8		\$0		\$0	\$0
				\$0				\$0		\$0	\$0
Subtotal Channel Treat.				\$225		8		\$0		\$0	\$225
C. Road and Trails						X			•		
				\$0		X		\$0		\$0	\$0
				\$0		X		\$0		\$0	\$0
				\$0		X		\$0		\$0	\$0
				\$0		X		\$0		\$0	\$0
Subtotal Road & Trails				\$0		X		\$0		\$0	\$0
D. Structures						X					
				\$0		X		\$0		\$0	\$0
				\$0		X		\$0		\$0	\$0
				\$0		X		\$0		\$0	\$0
				\$0		X		\$0		\$0	\$0
Subtotal Structures				\$0		X		\$0		\$0	\$0
E. BAER Evaluation						X					
Team	days	281	7	\$1,967		8		\$0		\$0	\$1,967
				\$0		8		\$0		\$0	\$0
						8					
G. Monitoring Cost	days	281	4	\$1,124		8		\$0		\$0	\$1,124
						8					
H. Totals				\$6,718				\$0		\$0	\$5,218
						8					

# **PART VII - APPROVALS**

1.	/s/ Dwight Chambers for	07/25/2003			
	Forest Supervisor (signature)	Date			
2.					
	Regional Forester (signature)	Date			