

Date of Report: 07/23/2010

BURNED-AREA REPORT
(Reference FSH 2509.13)**PART I - TYPE OF REQUEST****A. Type of Report**

- ☒ 1. Funding request for estimated emergency stabilization funds
☐ 2. Accomplishment Report
☐ 3. No Treatment Recommendation

B. Type of Action

- ☒ 1. Initial Request (Best estimate of funds needed to complete eligible stabilization measures)

☐ 2. Interim Report #_____
 ☐ Updating the initial funding request based on more accurate site data or design analysis
 ☐ Status of accomplishments to date

☐ 3. Final Report (Following completion of work)

PART II - BURNED-AREA DESCRIPTION

- A. Fire Name:** Lakeside Fire **B. Fire Number:** MT-HNF-000023
C. State: Montana **D. County:** Lewis and Clark
E. Region: 1 **F. Forest:** Helena NF
G. District: Helena RD **H. Fire Incident Job Code:** P1FLS4
I. Date Fire Started: 07/16/2010 **J. Date Fire Contained:** 07/20/2010
K. Suppression Cost: \$ 588,000 (as of 07/23/2010)
L. Fire Suppression Damages Repaired with Suppression Funds
 1. Fireline waterbarred (miles): Handline: 0 miles
 2. Fireline seeded (miles):
 3. Other (identify):
M. Watershed Number: Missouri River-Hauser Lake (100301011607), Oregon Gulch (100301011601)
N. Total Acres Burned:
 [160] NFS Acres [600] Other Federal [] State [100] Private
O. Vegetation Types: The fire area is predominantly Douglas Fir/Pine/Grass

P. Dominant Soils: Lithic Ustochrepts

Q. Geologic Types: Soft sedimentary rock of the Greyson and Spokane formations, unconsolidated Quaternary deposits

R. Miles of Stream Channels by Order or Class: no streams in burn perimeter; ephemeral streams adjacent to the burn perimeter.

S. Transportation System (NFS)

Trails: none

Roads: none within burn perimeter; 0.9 miles of FS road downslope of burned NFS land (no stream culverts)

PART III - WATERSHED CONDITION

A. Burn Severity (acres): 90 (**low**) 60 (**moderate**) 10 (**high**)

B. Water-Repellent Soil (acres): 70 acres (areas of moderate and high burn severity)

C. Soil Erosion Hazard Rating (acres): 70 (moderate-high burn severity)

D. Erosion Potential: 10.4 tons/acre the first year (based on calculations in ERMiT)

E. Sediment Potential: N/A

PART IV - HYDROLOGIC DESIGN FACTORS

A. Estimated Vegetative Recovery Period, (years): N/A

B. Design Chance of Success, (percent): N/A

C. Equivalent Design Recurrence Interval, (years): N/A

D. Design Storm Duration, (hours): N/A

E. Design Storm Magnitude, (inches): N/A

F. Design Flow, (cubic feet / second/ square mile): N/A

G. Estimated Reduction in Infiltration, (percent): N/A

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

PART V - SUMMARY OF ANALYSIS**A. Describe Critical Values/Resources and Threats:**

The primary values at risk in this burned area are native vegetation communities and soil productivity. These communities are under threat from rapid expansion of noxious weeds from existing populations in the burn area vicinity. Roads encircle the burn perimeter, and a powerline traverses the burn—these corridors and most of the interior of the burn are heavily infested with noxious weeds. Known weed species include: Spotted knapweed, Dalmatian Toadflax, Canada thistle, and Musk Thistle.

B. Emergency Treatment Objectives:

The emergency treatment objective is to prevent the expansion of noxious weeds in areas burned in the fire.

C. Probability of Completing Treatment Prior to Damaging Storm or Event:

Land 50% Channel N/A Roads/Trails N/A Protection/Safety N/A

D. Probability of Treatment Success

	Years after Treatment		
	1	3	5
Land	80%	70%	50%
Channel	N/A		
Roads/Trails	N/A		
Protection/Safety	N/A		

E. Cost of No-Action (Including Loss): The value of protecting the ecological integrity and soil productivity of the burned area from noxious weed infestation likely exceeds the cost of treatment and monitoring, although this was not quantified.

F. Cost of Selected Alternative (Including Loss): \$45,350

G. Skills Represented on Burned-Area Survey Team:

<input checked="" type="checkbox"/> Hydrology	<input checked="" type="checkbox"/> Soils	<input type="checkbox"/> Geology	<input type="checkbox"/> Range
<input type="checkbox"/> Forestry	<input type="checkbox"/> Wildlife	<input type="checkbox"/> Fire Mgmt.	<input type="checkbox"/> Engineering
<input type="checkbox"/> Contracting	<input type="checkbox"/> Ecology	<input type="checkbox"/> Botany	<input type="checkbox"/> Archaeology
<input type="checkbox"/> Fisheries	<input type="checkbox"/> Research	<input type="checkbox"/> Landscape Arch	<input type="checkbox"/> GIS
<input checked="" type="checkbox"/> Weeds			

Team Leader: Dave Callery

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H. Treatment Narrative:

(Describe the emergency treatments, where and how they will be applied, and what they are intended to do. This information helps to determine qualifying treatments for the appropriate funding authorities. For seeding treatments, include species, application rates and species selection rationale.)

Land Treatments:

Areas infested with noxious weeds will be treated within the burn perimeter, and on roads used for suppression purposes. Follow-up treatments should probably be done in outyears following the fire. In 2010-11, existing weed populations will be treated. If subsequent monitoring identifies weeds populations not effectively removed with initial treatment, additional treatment will be planned, and funds requested in an interim request. Treatment will include the following:

- Spraying in summer 2010 to control existing populations not burned in fire
- Spraying in the spring before weeds begin to seed
- Using approved herbicides and application techniques based on weed species, topography and environmental factors

Adjacent BLM-managed land will also be treated for weeds through the BLM BAER program in conjunction with the FS effort.

Channel Treatments: No channel treatment prescribed at this time.

Roads and Trail Treatments: No roads or trail treatments prescribed at this time.

Protection/Safety Treatments: No protection/safety treatments prescribed at this time.

I. Monitoring Narrative:

(Describe the monitoring needs, what treatments will be monitored, how they will be monitored, and when monitoring will occur. A detailed monitoring plan must be submitted as a separate document to the Regional BAER coordinator.)

In 2011 all of the known areas of infestation will be re-surveyed by HNF Weeds staff. Any noxious weed populations not effectively treated during initial treatment efforts will be targeted for additional herbicide application in the spring of 2011. Watershed monitoring will also be done simultaneously to determine if hillslope stability above roads becomes an issue.

Part VI – Emergency Stabilization Treatments and Source of Funds**Interim #**

Part IV - Emergency Stabilization Treatments and Control of Invasive Plant Species										
			NFS Lands			Other Lands				All
		Unit	# of		Other	# of	Fed	# of	Non Fed	Total
Line Items	Units	Cost	Units	BAER \$	\$	units	\$	Units	\$	\$
A. Land Treatments										
herbicide application	Acre	130	120	\$15,600	\$0		\$0		\$0	\$15,600
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
Insert new items above this line!				\$0	\$0		\$0		\$0	\$0
Subtotal Land Treatments				\$15,600	\$0		\$0		\$0	\$15,600
B. Channel Treatments										
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
Insert new items above this line!				\$0	\$0		\$0		\$0	\$0
Subtotal Channel Treat.				\$0	\$0		\$0		\$0	\$0
C. Road and Trails										
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
Insert new items above this line!				\$0	\$0		\$0		\$0	\$0
Subtotal Road & Trails				\$0	\$0		\$0		\$0	\$0
D. Protection/Safety										
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
Insert new items above this line!				\$0	\$0		\$0		\$0	\$0
Subtotal Structures				\$0	\$0		\$0		\$0	\$0
E. BAER Evaluation										
Assessment	lump	3000	1		\$3,000		\$0		\$0	\$3,000
Insert new items above this line!				---	\$0		\$0		\$0	\$0
Subtotal Evaluation				\$0	\$3,000		\$0		\$0	\$3,000
F. Monitoring										
weed monitoring	Acre	15	160	\$2,400	\$0		\$0		\$0	\$2,400
Insert new items above this line!				\$0	\$0		\$0		\$0	\$0
Subtotal Monitoring				\$2,400	\$0		\$0		\$0	\$2,400
G. Totals				\$18,000	\$3,000		\$0		\$0	\$21,000
Previously approved				\$0						
Total for this request				\$18,000	3,000					

PART VII - APPROVALS

1. _____
Forest Supervisor (signature) _____
Date _____
2. _____
Regional Forester (signature) _____
Date _____