USDA-FOREST SERVICE FS-2500-8 (6/06)

Date of Report:
11/5/2007

BURNED-AREA REPORT
(Reference FSH 2509.13)

PART I - TYPE OF REQUEST

A. Type of Report

[X] 1. Funding request for estimated emergency stabilization funds
[ ] 2. Accomplishment Report
[ ] 3. No Treatment Recommendation

B. Type of Action

[X] 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: Haigler

B. Fire Number: AZ-TNF-964

C. State: AZ

D. County: Gila

E. Region: 03

F. Forest: Tonto NF (12)

G. District: Pleasant Valley (05)

H. Fire Incident Job Code: P3DZ8M

I. Date Fire Started: 9-2-2007

J. Date Fire Contained: 10-28-2007

K. Suppression Cost: $210,000

L. Fire Suppression Damages Repaired with Suppression Funds
1. Fireline waterbarred (miles): 3.0
2. Fireline seeded (miles): 3.0
3. Other (identify):

M. Watershed Number: 1506010502

N. Total Acres Burned:
NFS Acres(662) Other Federal ( ) State ( ) Private ( )

O. Vegetation Types: Ponderosa Pine, chaparral, pinyon-juniper

P. Dominant Soils: Udic Haplustlafs (TES MU 5650, 5651) and Udic Ustochrepts (TES MU 5352, 5368)

Q. Geologic Types: Sedimentary

R. Miles of Stream Channels by Order or Class:
Perennial - 0.3 miles
Intermittent - .75 miles

S. Transportation System

Trails: _ miles Roads: 2.7 miles

PART III - WATERSHED CONDITION

A. Burn Severity (acres): 512 (low) ___ (moderate) ___ (high) 150 (moderate – high)

B. Water-Repellent Soil (acres): 100

C. Soil Erosion Hazard Rating (acres):
130 (low) 130 (moderate) 402 (high)

D. Erosion Potential: 13 tons/acre

E. Sediment Potential: 3700 cubic yards / square mile

PART IV - HYDROLOGIC DESIGN FACTORS

A. Estimated Vegetative Recovery Period, (years): 3-5

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 Haigler Fire burned slightly more than one square mile of chaparral, pinyon juniper, and ponderosa pine covered National Forest system lands in the Haigler Creek watershed. Approximately 20 percent burned with moderate to high severity. The remainder was unburned or burned with low severity. The moderate to high severity burn was primarily restricted to the steep chaparral slopes above Forest Road 849.

One parcel of private land exists along Haigler Creek approximately 1.5 miles below the burned area. A second sudivided parcel of private land exists on Haigler Creek approximately 3 miles below the burned area.

At least one residence exists on the first parcel and several homes exist on the second parcel. The location of structures on these lands in relation to the floodplain of Haigler Creek is not known.

Watershed area of Haigler Creek above the uppermost parcel of private land is approximately 28 square miles. The watershed area within the perimeter of the fire represents less than 4 percent of the watershed and the area of moderate to high burn severity represents less than one percent of the watershed. Winter and spring precipitation occurs as a mixture of snow and rain and is generally of low intensity. Substantial resprouting of chaparral and germination of native grasses and forbs is expected before the higher intensity storms associated with the summer monsoon season arrive next July. Vegetative regrowth before the next summer rainy season is expected to provide some watershed protection by the time these rains arrive. The combination of small contibuting area and opportunity for some watershed recovery results in a low potential for increased flood risk to structures on private lands below the burned area.

Haigler Creek is a perennial stream that supports a marginally reproducing trout fishery. The stream is also planted with trout by the Arizona Game and Fish Department. Erosion of ash and soil from the burned area is expected to have adverse effects to water quality in Hagler Creek during periods of rainfall or snowmelt runoff. Adverse water quality effects may affect the existing trout in the creek. Water quality effects are unavoidable but expected to be of short duration. Needle cast in areas of low and moderate severity burn and rapid resprouting of chaparral in areas of moderate and high severity burn should allow rapid recovery of watershed conditions and reduce water quality impacts.

The potential for noxious weeds to be introduced or to spread in the burned area has increased due to mechanical equipment that was brought in to construct fire line around the fire. Approximately 1.5 miles of dozer line were constructed by dozers brought in from above the Mogollon Rim.

An abandoned mine shaft was exposed in T10NR14E Sec 6 SENW as a result of the fire. This shaft represents a safety hazard to the public.

B. Emergency Treatment Objectives:

Detect and remove noxious weeds

Reduce the safety hazard represented by the exposed mine shaft.

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

Land 80 % Channel ___ % Roads/Trails ___ % Protection/Safety 90 %

D. Probability of Treatment Success

	Years after Treatment		
	1	3	5
Land	80	90	90
Channel			
Roads/Trails			
Protection/Safety	90	80	70

E. Cost of No-Action (Including Loss): $10,000

F. Cost of Selected Alternative (Including Loss): $4000

G. Skills Represented on Burned-Area Survey Team:

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

Team Leader: Grant Loomis

Email: gjloomis@fs>fed.us Phone: 602 225-5253 FAX: 602 225-5295

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 disturbed by mechanical equipment will be inspected in the spring to investigate whether noxious weeds have germinated, and will be removed if detected.

Channel Treatments:

Roads and Trail Treatments:

Protection/Safety Treatments:

A fence will be constructed around the mine shaft.

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.)

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

			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										
Weed detection	1	1500	1	$1,500	$0		$0		$0	$1,500
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Land Treatments				$1,500	$0		$0		$0	$1,500
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										
mine shaft fence	1	500	1	$500	$0		$0		$0	$500
				$0	$0		$0		$0	$0
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Structures				$500	$0		$0		$0	$500
E. BAER Evaluation										
assessment	1	1000	1	---	$1,000		$0		$0	$1,000
Insert new items above this line!				---	$0		$0		$0	$0
Subtotal Evaluation				---	$1,000		$0		$0	$1,000
F. Monitoring										
				$0	$0		$0		$0	$0
Insert new items above this line!				$0	$0		$0		$0	$0
Subtotal Monitoring				$0	$0		$0		$0	$0
G. Totals				$2,000	$1,000		**$0**		**$0**	**$3,000**
Previously approved										
Total for this request				**$2,000**						

PART VII - APPROVALS

1. /s/ *Thomas J Klabunde* *11/16/2007*
   for Forest Supervisor (signature) Date

2. /s/ *Lucia M. Turner (for)* 11/20/2007
   Regional Forester (signature) Date