

Date of Report: 6/9/2011

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: Pine Lawn B. Fire Number: NM-GNF-2011-295
C. State: NM D. County: Catron, Grant
E. Region: 03 F. Forest: Gila
G. District: Reserve H. Fire Incident Job Code: P3F2MG
I. Date Fire Started: 4/16/2011 J. Date Fire Contained: 4/26/2011
K. Suppression Cost: _____
L. Fire Suppression Damages Repaired with Suppression Funds
 1. Fireline waterbarred and brush brought back on line (miles): 5
 2. Fireline seeded (miles): 5
 3. Other (identify): 0
M. Watershed Number: 150400040401 (Headwaters Saliz Canyon)
N. Total Acres Burned: 500
 NFS Acres (500) Other Federal () State () Private ()
O. Vegetation Types: Ponderosa Pine, Gray Oak, Pinyon-Juniper
P. Dominant Soils: Typic Haplustalfs, mesic
Q. Geologic Types: residuum, sandstone, shale

R. Miles of Stream Channels by Order or Class:

1st order

2nd order

3rd order

4th order

5th order

6th order

7th order

Total perennial stream miles miles

S. Transportation System

Trails: _ miles

Roads: _ miles

PART III - WATERSHED CONDITION

A. Burn Severity (acres): 400 (low) 50 (moderate) 50 (high)

B. Water-Repellent Soil (acres): 0

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

D. Erosion Potential: tons/acre

E. Sediment Potential: cubic yards / square mile

PART IV - HYDROLOGIC DESIGN FACTORS

A. Estimated Vegetative Recovery Period, (years):

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):

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

PART V - SUMMARY OF ANALYSIS

A. Describe Critical Values/Resources and Threats:

The human-caused Pine Lawn Fire started on April 16, 2011 adjacent to the Pine Lawn Road Side Park (State), southwest of the Village of Reserve, New Mexico. This small park is located off of State Highway 180 approximately 2.5 miles south of the junction of State Highway 180 and State Highway 12. The fire size was 100% contained at 500 acres. The fire burned in a mosaic across its perimeter, with mostly low severity impacts. A few pockets of moderate and high severity were observed within the burned area along Highway 180 and several forest roads that provide access to Tuscon Electric

powerlines. Some of the areas of moderate and high severity along Highway 180 have considerable trees to be felled. These areas were neither large nor contiguous. Across the landscape the soils tend to be fairly stable with parent material being comprised of sandstone and shale. Erosion hazard is characterized as slight. Pockets of high and moderate burn severity occurred on flatter slopes with little soil movement anticipated across the majority of the burn area. Potential for needle cast is high in these pockets of higher burn severity as it occurred primarily in Ponderosa pine. No T&E concerns are found within the fire perimeter. Values at risk were determined to be human life and safety within the road corridor of State Highway 180 and Forest Roads 4180F, 4040M, 4317, and 4317K due to high probability of hazard trees falling into the roadways in the next 0-3 years.

Critical Values Identified

Critical Values identified (FSM 2523.1 Exhibit 01) during the BAER assesment are: human life and safety. The BAER team evaluated the risk to those critical values using the BAER Risk Assessment (FSM 23235.1 Exhibit 02). The risk matrix below, Exhibit 2 of Interim Directive No.: **2520-2010-1**, was used to evaluate the Risk Level for each value at risk identified during Assessment:

Probability of Damage or Loss	Magnitude of Consequences		
	Major	Moderate	Minor
	Loss of life or injury to humans; substantial property damage; irreversible damage to critical natural or cultural resources.	Injury or illness to humans; moderate property damage; damage to critical natural or cultural resources resulting in considerable or long term effects	Property damage is limited in economic value and/or to few investments; damage to natural or cultural resources resulting in minimal, recoverable or localized effects
	RISK		
Very Likely (>90%)	Very High	Very High	Low
Likely (>50% to <90%)	Very High	High	Low
Possible (>10% to <50%)	High	Intermediate	Low
Unlikely (<10%)	Intermediate	Low	Very Low

The Very High and High Risk are unacceptable risk levels due to threats to public health and safety; therefore treatments should be applied.

1. Removal of all hazard trees that have the propensity to fall within the road corridor of State Highway 180 and Forest Roads 4180F, 4040M, 4317, and 4317K.

B. Emergency Treatment Objectives:

Treatment objectives are to prevent loss of human life and protect traveler safety along State Highway 180 and Forest Roads 4180F, 4040M, 4317, and 4317K .

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

Land N/A % Channel NA % Roads/Trails 0 % Protection/Safety 100 %

D. Probability of Treatment Success

	Years after Treatment		
	1	3	5
Land	---	---	---
Channel	---	---	---
Roads/Trails	---	---	---
Protection/Safety	100	100	100

E. Cost of No-Action (Including Loss):\$1,000,000**F. Cost of Selected Alternative (Including Loss):\$9,000****G. Skills Represented on Burned-Area Survey Team:**

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

Team Leader:Michael Natharius

Email: mnatharius@fs.fed.us

Phone: 575-388-8246

FAX: 575-388-8204

H. Treatment Narrative:

Land Treatments: No Land treatments recommended.

Channel Treatments: No channel treatments recommended

Roads and Trail Treatments: No channel treatments recommended

Protection/Safety Treatments:

Fall Hazard trees created by the Pine Lawn Fire along State Highway 180 for approximately 1.5 miles and along Forest Roads 4180F, 4040M, 4317, and 4317K .

I. Monitoring Narrative:

None Recommended

Part VI – Emergency Stabilization Treatments and Source of Funds

Interim #

Line Items	Units	Unit Cost	NFS Lands		Other \$	Other Lands				All Total \$
			# of Units	BAER \$		# of units	Fed \$	# of Units	Non Fed \$	
A. Land Treatments										
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
Subtotal Land Treatments				\$0	\$0		\$0		\$0	\$0
B. Channel Treatments										
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
Subtotal Channel Treat.				\$0	\$0		\$0		\$0	\$0
C. Road and Trails										
Trail Drainage	miles	0	0	\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
Subtotal Road & Trails				\$0	\$0		\$0		\$0	\$0
D. Protection/Safety										
hazard tree NM180	miles	3,000	3	\$9,000	\$0		\$0		\$0	\$9,000
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
Subtotal Structures				\$9,000	\$0		\$0		\$0	\$9,000
E. BAER Evaluation										
	1			---	\$500		\$0		\$0	\$500
<i>Insert new items above this line!</i>				---	\$0		\$0		\$0	\$0
Subtotal Evaluation				---			\$0		\$0	\$500
F. Monitoring										
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
Subtotal Monitoring				\$0	\$0		\$0		\$0	\$0
G. Totals				\$9,000			\$0		\$0	\$9,500
Previously approved										
Total for this request				\$9,000						

PART VII - APPROVALS

 1. /s/ Rhonda S. Helzner (for)
 Forest Supervisor (signature)

7/21/2011
 Date

 2. /s/ C. L. Newman, Jr.
 Regional Forester (signature)

7/22/2011
 Date