

BURNED-AREA REPORT
(Reference FSH 2509.13, Report FS-2500-8)

PART I - TYPE OF REQUEST

A. Type of Report

- ☐ 1. Funding request for estimated EFFE-FW22 funds
☒ 2. Accomplishment Report
☐ 3. No Treatment Recommendation

B. Type of Action

- ☐ 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 and design analysis
 ☐ Status of accomplishments to-date
☒ 3. Final report - following completion of work

PART II - BURNED-AREA DESCRIPTION

- A. Fire Name: BURGETT B. Fire Number: P37253
C. State: NEW MEXICO D. County: OTERO
E. Region: R-3 F. Forest: LINCOLN
G. District: MAYHILL
H. Date Fire Started: 4/19/93 I. Date Fire Controlled: EST 4/27/93
J. Suppression Cost: \$1,100,000
K. Fire Suppression Damages Repaired with EFFE-PF12 Funds:
 1. Fireline waterbarred (miles) _____
 2. Fireline seeded (miles) 8
 3. Other (identify) _____
L. Watershed Number: 13060010 081 (13060010 083)
M. NFS Acres Burned: 4,650 Total Acres Burned: 5,350
 Ownership type:
 () State () BLM (700) PVT () _____
N. Vegetation Types: MIXED CONIFER, PINYON-JUNIPER
O. Dominant Soils: TYPIC ARGIBOROLLS, UDIC ARGIUUSTOLLS, LITHIC ARGIUUSTOLLS,
 LITHIC ARGIUUSTOLLS
P. Geologic Types: YESO FORMATION; SILTSTONE, SANDSTONE, LIMESTONE
Q. Miles of Stream Channels by Order or Class: _____
R. Transportation System:
 Trails: 0 (miles) Roads: 19.6 (miles)

PART III - WATERSHED CONDITION

- A. Fire Intensity (Acres): 1650 (low) 1500 (moderate) 1500 (high)
- B. Water Repellant Soil (Acres): 500
- C. Soil Erosion Hazard Rating (Acres):
3050 (low) 600 (moderate) 1000 (high)
- D. Erosion Potential: 50 tons/acre
- E. Sediment Potential: 5,000 cu. yds/sq. mile

PART IV - HYDROLOGIC DESIGN FACTORS

- A. Estimated Vegetative Recovery Period: 10 years.
- B. Design Chance of Success: 70 percent.
- C. Equivalent Design Recurrence Interval: 25 years.
- D. Design Storm Duration: 24 hours.
- E. Design Storm Magnitude: 1.6 inches.
- F. Design Flow: 10 cfs.
- G. Estimated Reduction in Infiltration: 50 percent.
- H. Adjusted Design Flow: 30 cfs.

PART V - SUMMARY OF ANALYSIS

A. Describe Emergency:

HOT FAST MOVING FIRE CARRIED BY 50 MPH WINDS BURNED EXTREMELY HOT IN 1000 AC OF PONDEROSA PINE, MIXED CONIFER AND 600 AC OF PINYON-JUNIPER. EFFECTIVE GROUND COVER REMOVAL IN THESE AREAS IS ESTIMATED TO BE 75 TO 100%. LOSS OF SOIL IS LIKELY WITHOUT STABILIZATION.

B. Emergency Treatment Objectives:

STABILIZE STEEP SLOPES AND REDUCE IRREPAIRABLE SOIL LOSS.

USE LAYING LOGS HORIZONTALLY ON THE CONTOUR IN ORDER TO HOLD SOIL IN PLACE AND REDUCE SLOPE LENGTH, ALSO TO DISPERSE OVERLAND FLOW IN SELECTED AREAS OF DEEPER STEEP SOILS. WATERBARRING OF ROADS WHERE DIRECTLY AFFECTED BY THE FIRE.

C. Probability of Completing Treatment Prior to First Major Damage Producing Storm:

Land 80 % Channel 80 % Roads _____ % Other _____ %

D. Probability of Treatment Success

	<----Years after treatment----->		
	1	3	5
Land	60	70	80
Channel	60	70	80
Roads			
Other			

E. Cost of No-Action (Including Loss): \$150,000

F. Cost of Selected Alternative (Including Loss): \$ 86,520

G. Skills Represented on Burned-Area Survey Team:

<input checked="" type="checkbox"/> Hydrology	<input checked="" type="checkbox"/> Soils	<input checked="" type="checkbox"/> Geology	<input checked="" type="checkbox"/> Range
<input checked="" type="checkbox"/> Timber	<input checked="" type="checkbox"/> Wildlife	<input checked="" type="checkbox"/> Fire Mgmt.	<input checked="" type="checkbox"/> Engineering
<input checked="" type="checkbox"/> Contracting	<input checked="" type="checkbox"/> Ecology	<input type="checkbox"/> Research	<input checked="" type="checkbox"/> Archaeology
<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____	<input type="checkbox"/> _____

Team Leader: ROBERT DANCKER

Phone: 505-434-7250 DG Address: R03F08A

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.

AERIAL APPLICATION OF SEED ON SEVERE AND MODERATELY BURNED AREAS TO STABILIZE STEEP SLOPES AND PREVENT IRREPAIRABLE SOIL LOSS. IN PROPOSING THIS ACTION WE ARE REQUESTING EXPEDITED APPROVAL IN ORDER TO COORDINATE REHAB (SEEDING) ACTIVITIES WITH THE AVAILABILITY OF FIRE CREWS AND HELICOPTER. QUICK ACTION WILL CAUSE LITTLE DOWN TIME AND ELIMINATE THE NEED FOR FUTURE HELICOPTER TIME TO CONDUCT SEEDING THIS BURNED AREA.

SEED MIX APPLICATION AT 3-4 LBS PER ACRE ON SEVERE AND MODERATE EROSION HAZARD AREAS. TWO MIXES ONE FOR PJ AND ONE FOR PINE.

PJ MIX

20% PERENNIAL RYE
20% BLUE GRAMMA
60% WESTERN WHEAT GRASS

PINE MIX

20% ORCHARD GRASS
30% SMOOTH BROME
10% PERENNIAL RYE
40% INTERMEDIATE WHEAT

75LBS OF YELLOW SWEET CLOVEER TO BE MIXED IN WITH BOTH MIXES

UNIT COSTS BASED ON THE FOLLOWING RATES

HELICOPTER SUPPORT CREW 325/DAY 2 DAYS = 650
SEED BUCKET 125/DAY 2 DAYS = 250
HELICOPTER 500/HR 12 HRS = 6,000

COSTS OF LAYING LOGS ON CONTOUR TO STABILIZE SOILS AND DISPERSE OVERLAND FLOW.
500 ACRES TO BE TREATED
\$1,500/ DAY FOR THE CREW AND 5 DAYS TO COMPLETE = \$7,500

COST TO WATER BAR AFFECTED ROADS
20 HOURS CAT TIME AT \$110 PER HOUR = \$2,200

PART VI - EMERGENCY REHABILITATION TREATMENTS AND SOURCE OF FUNDS BY LAND OWNERSHIP

NOTE: Emergency rehabilitation is work done promptly following a wildfire and is not to solve watershed problems that existed prior to the wildfire.

Line Items	Units	Unit Cost \$	NFS Lands			Other Lands			All Total \$
			Number of Units	EFFS- FW22 \$	Other \$	Number of Units	Fed \$	Non-Fed \$	
					ident.		ident.	ident.	
A. LAND TREATMENTS									
SEED GRASS MIXES&LEGUME	AC	9.43	1600	15,080					\$15,080
HELICOPTER	AC	4.00	1600	6,400					6,400
SUPPORT CREW	AC	.36	1600	682					682
SEED BUCKET	AC	.19	1600	303					303
LAY LOGS ON CONTOUR	AC	12.75	510	6,500					6,500
B. CHANNEL TREATMENTS									
C. ROADS AND TRAILS									
D. STRUCTURES									
E. BAER EVALUATION/ ADMINISTRATIVE SUPPORT									
F. TOTALS		26.73							28,965

PART VII - APPROVALS

1. /s/ _____
Forest Supervisor (Signature) _____
Date
2. /s/ _____
Regional Forester (Signature) _____
Date