

Date of Report: 09/12/2019**BURNED-AREA REPORT****PART I - TYPE OF REQUEST****A. Type of Report**

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

B. Type of Action

- ☐ 1. Initial Request (Best estimate of funds needed to complete eligible stabilization measures)
☐ 2. Interim Request #____
☐ Updating the initial funding request based on more accurate site data or design analysis

PART II - BURNED-AREA DESCRIPTION**A. Fire Name:** Montoya Springs**B. Fire Number:** NM-CAF-000466**C. State:** NM**D. County:** Rio Arriba**E. Region:** Southwestern (R3)**F. Forest:** Carson NF**G. District:** Canjilon RD**H. Fire Incident Job Code:** P3MP9A**I. Date Fire Started:** 08/29/2019**J. Date Fire Contained:** 100% contained as of 09/09/2019**K. Suppression Cost:** \$436,000 (as of 09/09/2019)**L. Fire Suppression Damages Repaired with Suppression Funds (estimates):** None

1. **Fireline repaired (miles):** Click here to enter text.
2. **Other (identify):** Click here to enter text.

M. Watershed Numbers:*Table 1: Acres Burned by Watershed*

HUC #	Watershed Name	Total Acres	Acres Burned	% of Watershed Burned
130201020901	Montoya Canyon-Canjilon Creek	22,996	317	1
130201020902	Lopez Canyon-Canjilon Creek	17,173	2339	14

N. Total Acres Burned:

Table 2: Total Acres Burned by Ownership

OWNERSHIP	ACRES
NFS	2,656
OTHER FEDERAL (LIST AGENCY AND ACRES)	0
STATE	0
PRIVATE	0
TOTAL	2,656

O. **Vegetation Types:** Oak brush, Ponderosa Pine, and Pinyon-juniper woodland

P. **Dominant Soils:** Pachic Haploborolls – Udic Ustochrepts (TEUI map unit 631)

Q. **Geologic Types:** Quaternary landslide deposits and colluvium

R. **Miles of Stream Channels by Order or Class:**

Table 3: Miles of Stream Channels by Order or Class

STREAM TYPE	MILES OF STREAM
PERENNIAL	
INTERMITTENT	1.7
EPHEMERAL	9.6
OTHER (DEFINE)	

S. **Transportation System:**

Trails: National Forest (miles): 0 Other (miles): 0
Roads: National Forest (miles): 5.5 Other (miles): 0

PART III - WATERSHED CONDITION

A. **Burn Severity (acres):** Table 4: Burn Severity Acres by Ownership

Soil Burn Severity	NFS	Other Federal (List Agency)	State	Private	Total	% within the Fire Perimeter
Unburned	2,140	0	0	0	2,140	80
Low	447	0	0	0	447	17
Moderate	68	0	0	0	68	3
High	0	0	0	0	0	0
Total	2,656				2,656	100

B. **Water-Repellent Soil (acres):** 0

C. **Soil Erosion Hazard Rating:** Click here to enter text.

D. **Erosion Potential:** Click here to enter text. **Sediment Potential:** Click here to enter text.

F. **Estimated Vegetative Recovery Period (years):** 1

G. **Estimated Hydrologic Response (brief description):** Hydrologic Response as a result of changed conditions from the Montoya Springs fire is not expected to be notable due to the limited extent and scattered spatial arrangement of Low and Moderate burn severity.

PART V - SUMMARY OF ANALYSIS

Introduction/Background



Figure 1 – Low Burn Severity typical of conditions observed over majority of Montoya Springs managed fire.

Describe Critical Values/Resources and Threats (narrative):

The overwhelming majority of the Montoya Springs Fire was either unburned (80%, 2,140 acres) or experienced low severity (17%, 447 acres) fire in a mosaic pattern. Moderate (3%, 68 acres) severity fire was experienced only in small isolated pockets, in proximity to areas of high fuel loading. For the most part, the oak brush areas of the Montoya Springs fire supported only spotty fire activity and did not carry across the landscape. As such, anticipated post-fire effects to values at risk (VARs) are considered minimal to non-existent. The following VARs were considered for the BAER assessment within, adjacent to, or downstream from the Montoya Springs Fire perimeter.

Table 5: Critical Value Matrix

Probability of Damage or Loss	Magnitude of Consequences		
	Major	Moderate	Minor
	RISK		
Very Likely	Very High	Very High	Low
Likely	Very High	High	Low
Possible	High	Intermediate	Low

Probability of Damage or Loss	Magnitude of Consequences		
	Major	Moderate	Minor
	RISK		
Unlikely	Intermediate	Low	Very Low

1. Human Life and Safety (HLS):

- a. No Human Life and Safety critical values were identified at risk as a result of the Montoya Springs Fire.

2. Property (P): Forest Road System – approximately 5.5 miles of forest roads lie within the Montoya Springs Fire perimeter. Ditch relief culverts were evaluated along FDR 724, which forms the perimeter along the northern and eastern edge of the fire. These culverts are currently functional and only at Low risk of damage. Risk of post fire damage to this value is not greatly increased over normal stream discharge due to the effects of the Montoya Springs Fire.

3. Natural Resources (NR): There is Low to Very Low Risk of unacceptable loss to Natural Resources (site productivity/hydrologic function/critical habitat or suitable occupied habitat for T&E species) as a result of the Montoya Springs Fire. The mosaic of low burn severity and unburned conditions within the fire perimeter is not expected to cause a noticeable increase in runoff, erosion rates, and sediment delivery. Areas of moderate burn severity are small in area and scattered across the burned area, and while hydrologic response is expected in these small areas, no significant increase is expected beyond the local areas immediately downslope. Ninety seven percent of the 2,656-acre Montoya Springs fire severity was unburned, very low, or low so the chance of impacting any species negatively is minimal. Additionally there is no critical, suitable, or occupied habitat for any of the Federally threatened, endangered, or proposed terrestrial, fish, or plant species that could occur within the Montoya fire footprint: Mexican spotted owl, Southwestern willow flycatcher, Western yellow-billed cuckoo, Canada lynx, Black-footed ferret, or New Mexico meadow jumping mouse. Thus, there are no post-fire effects anticipated to these values as a result of the Montoya Springs Fire.

4. Cultural and Heritage Resources: There is Low to Very Low Risk of unacceptable loss of Cultural and Heritage Resources as a result of the Montoya Springs Fire. The West Zone archaeologist reported the majority of the area (80%) is un-surveyed. As indicated by adjacent surveys, the majority of sites are prehistoric lithic scatters. The fire is within the previous burn scare of the 2002 Montoya Wildfire which indicates that the area has already been burned over and lowers the likelihood for burnable sites. None of the identified values are anticipated to experience post-fire effects as a result of the Montoya springs Fire, as fire effects were predominantly in the unburned-low severity class with a mosaic landscape patterning. No areas of affiliated Tribal concern were identified within the fire perimeter. Neither are heritage resources, archaeological sites, or areas of affiliated Tribal concern adjacent to, or downstream from the Montoya Springs Fire anticipated to experience post-fire effects.

Very Low and Low Risk exists from post-fire effects to **Human Life and Safety, Natural Resources, or Cultural and Heritage Resources** within, adjacent to, or downstream from the Montoya Springs Fire.

Low to Intermediate Risk exists to Property (Forest Developed Roads and related infrastructure) within, adjacent to, and downstream from the Montoya Springs Fire.

A. Emergency Treatment Objectives: Click here to enter text.

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

Land Click here to enter text.

Channel Click here to enter text.

Roads/Trails Click here to enter text.

Protection/Safety Click here to enter text.

D. Probability of Treatment Success

Table 6: Probability of Treatment Success

	1 year after treatment	3 years after treatment	5 years after treatment
Land			
Channel			
Roads/Trails			
Protection/Safety			

E. Cost of No-Action (Including Loss): Click here to enter text.

F. Cost of Selected Alternative (Including Loss): Click here to enter text. Skills Represented on Burned-Area Survey Team:

- ☐ Soils
- ☒ Hydrology
- ☐ Engineering
- ☐ GIS
- ☐ Archaeology
- ☐ Weeds
- ☐ Recreation
- ☐ Fisheries
- ☒ Wildlife
- ☒ Other:

Team Leader: John Littlefield
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Forest BAER Coordinator: Greg Miller
Email: gregory.miller@usda.gov Phone(s): 575-758-6251

Team Members:Table 7: BAER Team Members by Skill

Skill	Team Member Name
Team Lead(s)	John Littlefield
Soils	
Hydrology	John Littlefield
Engineering	
GIS	Elaine Elliot
Archaeology	
Wildlife	Cheron Ferland
Recreation	
Other	Katherine Cahill

H. Treatment Narrative:Land Treatments: No treatments

Channel Treatments: Click here to enter text.Roads and Trail Treatments: Click here to enter text.Protection/Safety Treatments: Click here to enter text.I. Monitoring Narrative: Click here to enter text.

PART VI – EMERGENCY STABILIZATION TREATMENTS AND SOURCE OF FUNDS

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
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Land Treatments</i>				\$0	\$0		\$0		\$0	\$0
B. Channel Treatments										
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Channel Treatments</i>				\$0	\$0		\$0		\$0	\$0
C. Road and Trails										
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Road and Trails</i>				\$0	\$0		\$0		\$0	\$0
D. Protection/Safety										
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Protection/Safety</i>				\$0	\$0		\$0		\$0	\$0
E. BAER Evaluation										
Initial Assessment	Report	\$922	ea	\$922	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				---	\$0		\$0		\$0	\$0
<i>Subtotal Evaluation</i>				\$922	\$0		\$0		\$0	\$0
F. Monitoring										
				\$0	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				\$0	\$0		\$0		\$0	\$0
<i>Subtotal Monitoring</i>				\$0	\$0		\$0		\$0	\$0
G. Totals				\$922	\$0		\$0		\$0	\$0
Previously approved										
Total for this request				\$922						

PART VII - APPROVALS

1. James P. Puri
Forest Supervisor

Sept 30/2019
Date