

Date of Report: August 7, 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: Hart****B. Fire Number: AZ-COF-000716****C. State: AZ****D. County: Coconino****E. Region: 3****F. Forest: Coconino National Forest****G. District: Mogollon Rim****H. Fire Incident Job Code: P3MFR2****I. Date Fire Started: July 12, 2019****J. Date Fire Contained: contained 8/1/19****K. Suppression Cost: \$310,000****L. Fire Suppression Damages Repaired with Suppression Funds (estimates): 1.18 miles of fireline****M. Watershed Numbers:***Table 1: Acres Burned by Watershed*

HUC #	Watershed Name	Total Acres	Acres Burned	% of Watershed Burned
150200080311	Barbershop Canyon	13,423.6	4,129.3	31
150200080311	Bear Canyon	14,595.4	707.9	5
150200080403	East Clear Creek-Clear Creek	39,178.5	154.6	<1

N. Total Acres Burned:*Table 2: Total Acres Burned by Ownership*

OWNERSHIP	ACRES
NFS	4,991.8
OTHER FEDERAL (LIST AGENCY AND ACRES)	0

OWNERSHIP	ACRES
STATE	0
PRIVATE	0
TOTAL	4,991.8

O. Vegetation Types: Ponderosa pine, Gambel oak, screwleaf muhly (3,045 ac.); Douglas fir (1,358 ac.); ponderosa pine, Gambel oak (577 ac.); bluegrass, Arizona fescue (9 ac.); White fir, Douglas fir, ponderosa pine, Gambel oak (577 ac.),

P. Dominant Soils: Typic Haplustalfs (5,352 ac.), Typic Argiborolls (4,848 ac.), Typic Paleboralfs (2,273 ac.), Typic Dystrochrepts (1,667 ac.), Typic Glossoboralfs (1,182 ac.), Udic Argiborolls (734 ac.), Cumulic Haploborolls (437 ac.), Eutric Glossoboralfs (167 ac.), Glossic Eutroboralfs (123 ac.), Pachic Argiborolls (2 ac.)

Q. Geologic Types: Gray to tan cherty limestone of the Kaibab and Toroweap formations and underlying white to tan fine-grained Coconino Sandstone (4,991.8 ac.)

R. Miles of Stream Channels by Order or Class:

Table 3: Miles of Stream Channels by Order or Class

STREAM TYPE	MILES OF STREAM
FIRST ORDER	11.8
SECOND ORDER	1.6

S. Transportation System:

Trails: National Forest (miles): 2.1 Other (miles):
Roads: National Forest (miles): 36.5 Other (miles):

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
Unknown (cloud cover)	815	0	0	0	815	16.3
Very low or unburned	1,457	0	0	0	1,457	29.2
Low	2,547	0	0	0	2,547	51.0
Moderate	171	0	0	0	171	3.4
High	1	0	0	0	1	0.02
Total	4,991	0	0	0	4,991	

B. Water-Repellent Soil (acres): Approximately 172 ac. Moderate and high soil burn severities exhibit greater than 15 seconds for water to infiltrate.

C. Soil Erosion Hazard Rating: Slight (9,016.15 ac.), Moderate (3,050.27 ac.), Severe (4,723.70 ac.)

D. Erosion Potential: 2.9 tons per acre per year. Significantly below soil tolerance loss thresholds. Sediment Potential: 1,467 cu. yds. per sq. mi.

F. Estimated Vegetative Recovery Period (years): 1-3 years

G. Estimated Hydrologic Response (brief description): Two HUC-6 watersheds (Barbershop Canyon and Bear Canyon) were analyzed for soil burn severity impacts and predicted impacts to surface runoff hydrology.

Bear Canyon was further analyzed at the sub-watershed level, since its fire impacts were contained within Houston Draw. See table below for results. Combined high and moderate soil burn severity was 1% or less in each location. Due to the low impacts to the soils from the fire, there are little to no anticipated increases in surface runoff hydrology from the pre-fire conditions.

HUC #	Watershed Name	Watershed Acres	High & Moderate Soil Burn Severity Acres	Low Soil Burn Severity Acres
150200080304	Barbershop Canyon	13,413	169 (1.3%)	1,919 (14.3%)
150200080302	Bear Canyon	14,584	2 (0.0%)	556 (3.8%)
	Sub-watersheds			
	Houston Draw	2,165	2 (0.1%)	556 (25.7%)

PART V - SUMMARY OF ANALYSIS

Introduction/Background

No BAER Emergency. This was a managed fire with limited moderate (171 ac.) and high (1 ac.) burn severity.

A. Describe Critical Values/Resources and Threats (narrative):

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
Unlikely	Intermediate	Low	Very Low

1. Human Life and Safety (HLS):

a. Click here to enter text.

2. Property (P):Click here to enter text.

3. Natural Resources (NR):Click here to enter text.

4. Cultural and Heritage Resources:Click here to enter text.

B. Emergency Treatment Objectives: N/A – No emergency

C. 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:

Email: micah.kiesow@usda.gov; christopher.macdonald@usda.gov **Phone(s)** 928-637-5652

Forest BAER Coordinator:

Email: christopher.macdonald@usda.gov **Phone(s):** 928-637-5652

Team Members: Table 7: BAER Team Members by Skill

Skill	Team Member Name
Team Lead(s)	Christopher MacDonald, Micah Kiesow
Soils	Rory Steinke (AD), Thomas Giambra
Hydrology	Thomas Runyon, Edwin Bone
Engineering	Sean Untalan
GIS	Ralph Falsetto, Alex Heeren
Archaeology	Dagmar Galvan
Weeds	Debra Crisp
Recreation	Patrick McGervey

H. Treatment Narrative: Land Treatments: None recommended

Channel Treatments: None recommended Roads and Trail Treatments: None recommended Protection/Safety Treatments: None recommended 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
Subtotal Land Treatments				\$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
Subtotal Channel Treatments				\$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
Subtotal Road and Trails				\$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
Subtotal Protection/Safety				\$0	\$0		\$0		\$0	\$0
E. BAER Evaluation										
Initial Assessment	Report	\$8,000	1	\$8,000.00	\$0		\$0		\$0	\$0
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				---	\$0		\$0		\$0	\$0
Subtotal Evaluation				\$8,000	\$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
Subtotal Monitoring				\$0	\$0		\$0		\$0	\$0
G. Totals				\$8,000	\$0		\$0		\$0	\$0
Previously approved										
Total for this request				\$8,000						

PART VII - APPROVALS

1. Saurag West
Forest Supervisor

8/8/19
Date

