

Date of Report: 06/25/2019**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: Deer Fire****B. Fire Number: P3L9T8****C. State: Arizona****D. County: Greenlee****E. Region: R03****F. Forest: Apache-Sitgreaves NF's****G. District: Alpine****H. Fire Incident Job Code: P3L9T819****I. Date Fire Started: May 28, 2019****J. Date Fire Contained: July 19, 2019****K. Suppression Cost: Approx. \$250,000****L. Fire Suppression Damages Repaired with Suppression Funds (estimates):** Click here to enter text.

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
150400040504	Centerfire Creek-Blue River	17,311.1	11.3	0.065
150400040503	Campbell Blue Creek	34,218.3	1,894.5	5.5

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

OWNERSHIP	ACRES
NFS	1,905.8
OTHER FEDERAL (LIST AGENCY AND ACRES)	0
STATE	0

OWNERSHIP	ACRES
PRIVATE	0
TOTAL	1,905.8

O. Vegetation Types: Ponderosa Pine, Gambel Oak, Dry Mixed Conifer

P. Dominant Soils: Udic Haplusalfs (1,033 ac), Typic Glossudalfs (506 ac), Lithic Ustorthents (490 ac)

Q. Geologic Types: Basalt Colluvium and Residuum

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	1.46
INTERMITTENT	6.7
EPHEMERAL	0.3
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	397	0	0	0	397	100
Low	1,358	0	0	0	1,358	100
Moderate	113	0	0	0	113	100
High	0	0	0	0	0	100
Total	1,905.8	0	0	0	1,905.8	100

B. Water-Repellent Soil (acres): 123

C. Soil Erosion Hazard Rating: 616 (Slight), 268 (Moderate), 1,023 (Severe)

D. Erosion Potential: Estimated 0.01 tones/acreSediment Potential: 0.5 cubic yard/square mile

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

G. Estimated Hydrologic Response (brief description): We used Wildcat 5 to model a 25-year rainfall event with a 1-hour duration within the HUC6 Campbell Blue Creek watershed to estimate the impact of the Deer fire on watershed hydrology. Pre-fire hydrologic response was 3,467 cfs, and post-fire response was 3,536 cfs. The estimated post-fire response resulted in a 2% increase over the pre-fire conditions.

PART V - SUMMARY OF ANALYSIS

Introduction/Background

No roads or other infrastructure are threatened by post-fire conditions. The catchment area surrounding lower Castle Creek sustaining most of the burning. Castle Creek is tributary to the Campbell Blue River where T & E aquatics critical habitat occurs. Approximately a mile downstream of the confluence private property (Luce Ranch) is located adjacent to the stream. Based on the hydrologic modelings, structures located within the private property are not likely to be effected from the design storm. An input of sediment and ash through this area is likely to be flushed downstream of the burned area from the first few rainstorms occurring in the area. This may result in short-term impacts to water quality which could effect downstream T&E aquatic species, however the risk remains low.

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. Very Low

2. Property (P):Very Low

3. Natural Resources (NR):Low

4. Cultural and Heritage Resources:Very Low

B. Emergency Treatment Objectives: N/A. No burned area emergency identified. Given pre-fire stand densities and fuel loads, terrain and weather patterns during fire management, soil burn severities are within the anticipated range of variability in areas where fire has recently occurred (Wallow Fire, 2011). Observed erosion and sediment delivery from these sub-watersheds burned during the much larger Wallow Fire suggest that response to storms will have little negative effect, especially given the complete lack of high severity (0%) and only 113 acres of Moderate (6%).

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

N/A. No BAER treatments recommended.

D. Probability of Treatment Success: N/A

E. Cost of No-Action (Including Loss): N/A

F. Cost of Selected Alternative (Including Loss): N/A Skills Represented on Burned-Area Survey Team:

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

Team Leader:

Email:pabrown@fs.fed.us

Phone(s)928-333-6308

Forest BAER Coordinator:

Email:pabrown@fs.fed.us

Phone(s):928-333-6308

Team Members:Table 6: BAER Team Members by Skill

Skill	Team Member Name
Team Lead(s)	Paul Brown
Soils	Eric Robertson, Dan Bone
Hydrology	John Rihs, Dan Bone

Skill	Team Member Name
Engineering	Simon Cox
GIS	N/A
Archaeology	Aoife Kilmartin
Weeds	N/A
Recreation	Barbara Romero
Wildlife and FisheriesBios	Amanda Scott, Stephanie Coleman

H. Treatment Narrative:Land Treatments: None

Channel Treatments: NoneRoads and Trail Treatments: NoneProtection/Safety Treatments:
Nonel. Monitoring Narrative:
N/A

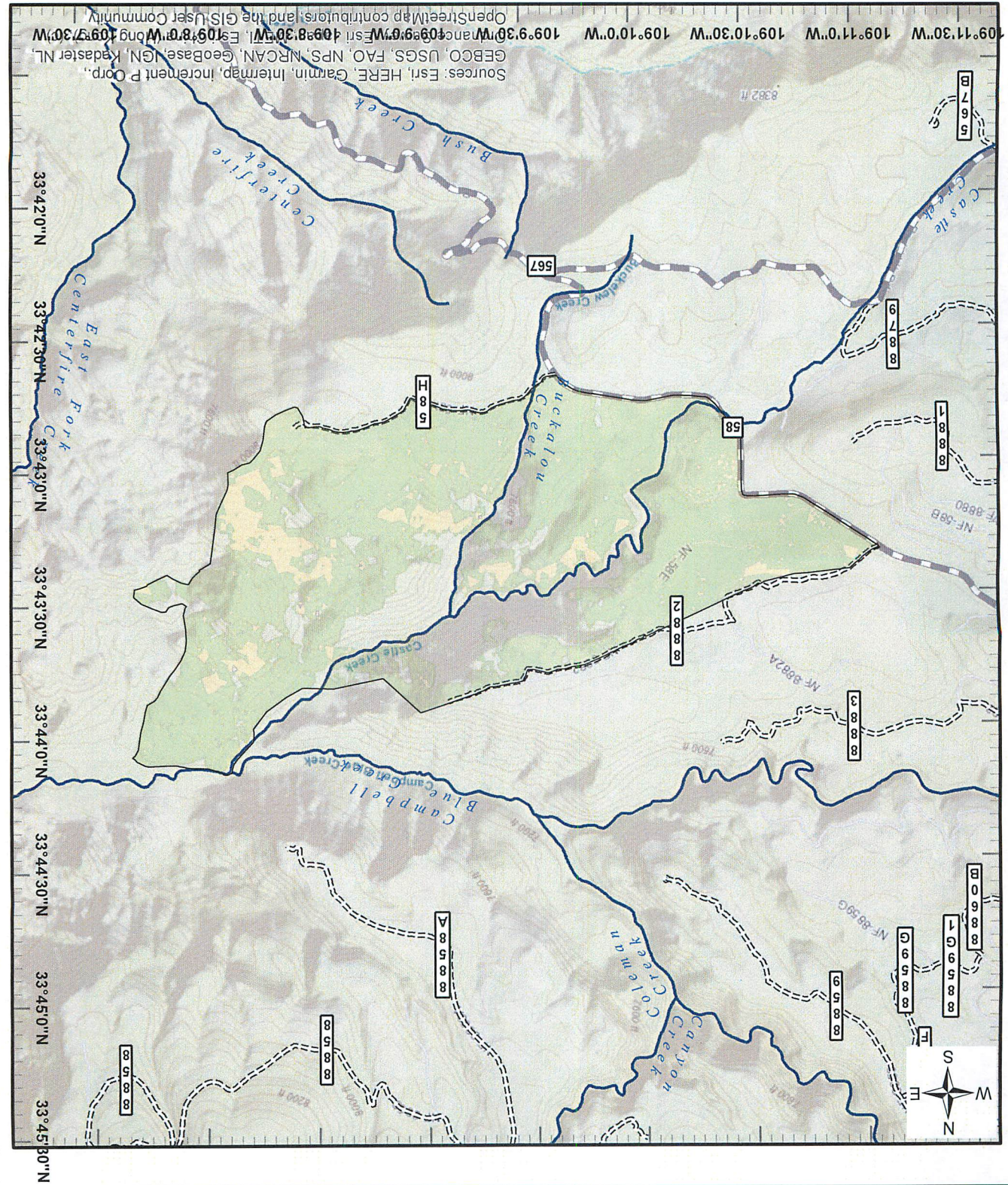
PART VI – EMERGENCY STABILIZATION TREATMENTS AND SOURCE OF FUNDS

				\$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			---	\$0	1	\$2,350		\$0	\$2,350
				\$0	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				---	\$0		\$0		\$0	\$0
<i>Subtotal Evaluation</i>				\$0	\$0		\$2,350		\$0	\$2,350
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										
				\$0	\$0		\$2,350		\$0	\$2,350
Previously approved										
Total for this request				\$0						

PART VII - APPROVALS

1. M. [Signature]
Forest Supervisor

6/25/19
Date



Deer Fire Map

Alpine Ranger District

Apache-Sitgreaves National Forests



1:40,000

- Legend**
- Forest Boundary
 - Proposed Seeding Areas for Cultural Sites
 - 5 - HIGH DEGREE OF USER COMFORT
 - 4 - MODERATE DEGREE OF USER COMFORT
 - 3 - SUITABLE FOR PASSENGER CARS
 - 2 - HIGH CLEARANCE LEVEL OF EXISTING ROAD
 - Open Road
 - Unburned - 397 Acres
 - Moderate - 113 Acres
 - Low - 158 Acres
 - High - Less than 1 Acre
 - Burn Severity
 - Dot, Burn boundary, 20150614

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Created on: 6/24/2019

Sources: Esri, HERE, Garmin, Intermap, increment P Corp., GEBCO, USGS, FAO, NPS, NRCAN, Geobase, IGN, Kadaster NL, OpenStreetMap contributors, and the GIS User Community