

Date of Report: July 29,2021

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: Red Apple

B. Fire Number: WA-SES-000360

C. State: Washington

D. County: Chelan

E. Region: Pacific Northwest (R6)

F. Forest: Okanogan-Wenatchee

G. District: Wenatchee River RD and Entiat RD

H. Fire Incident Job Code:(1522) PNN5WF21

I. Date Fire Started: July 13, 2021

J. Date Fire Contained: 94% on July 23, 2021

K. Suppression Cost: \$4,700,000 as of 7/23/2021

L. Fire Suppression Damages Repaired with Suppression Funds (estimates): N/A

- 1. Fireline repaired (miles): None at this time, scheduled for suppression repair, Fall 2021
- 2. Other (identify): N/A

M. Watershed Numbers: (6th Code Watersheds)

Table 1: Acres Burned by Watershed

HUC #	Watershed Name	Total Acres	Acres Burned	% of Watershed Burned
170200110708	Nahahum Canyon-Wenatchee River	30275	7028	23
170200100307	Rainey Spring-Columbia River	21148	5155	24
170200100306	Spencer Canyon-Columbia River	25693	92	<1
170200100305	Swakane Creek	13260	8	<1

N. Total Acres Burned: 12,283

Table 2: Total Acres Burned by Ownership

OWNERSHIP	ACRES
NFS	785
OTHER FEDERAL (BLM)	1,824
STATE	4,511
PRIVATE	5,163
TOTAL	12,283

O. **Vegetation Types:** (NFS) Shrub steppe and grassland, dry ponderosa pine, riparian hardwoods

P. **Dominant Soils:** (NFS) mesic or frigid Lithic Ultic Haploxerolls

Q. **Geologic Types:** (NFS) Swakane Biotite Gneiss (Kswg)

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	38.9
INTERMITTENT	63.9
CANAL/DITCH	1.93
ARTIFICIAL PATH	0.04
TOTAL	104.8

S. **Transportation System:**

Trails: National Forest (miles): 0 Other (miles): Unknown
 Roads: National Forest (miles): 4.29 Other (miles): 18.92

PART III - WATERSHED CONDITION

A. **Burn Severity (acres):**

Table 4: Burn Severity Acres by Ownership

Soil Burn Severity	NFS	Other Federal (BLM)	State	Private	Total	% within the Fire Perimeter
Unburned	49	207	753	233	1241	10
Low	394	1172	2370	2778	6713	55
Moderate	329	443	1318	2134	4224	34
High	14	2	70	19	105	1
Total	786	1824	4511	5163	12283	100

B. **Water-Repellent Soil (acres):** NFS, Limited field evaluations found no areas of water repellency

C. **Soil Erosion Hazard Rating:** NFS; Acres, 42 low, 473 moderate, 268 high

D. **Erosion Potential:** 2 tons/acre from a five-year one-hour rainfall event (tolerance = 5 tons/acre)

E. **Sediment Potential:** 130 cubic yards/square mile from a five-year one-hour rainfall event

F. **Estimated Vegetative Recovery Period (years):** 1 (grasslands) to 5 years (sagebrush)

G. **Estimated Hydrologic Response (brief description):** substantial reduction in effective ground cover from moderate and high burn severity acres on NFS lands will result in increased runoff from occasional convective rainfall over the next two months. estimated runoff from NFS lands resulting from a 5 yr 1 hr event (0.49”) is estimated at 0.3 cfs/acre. This value applies in the first year on acres with moderate or high burn severity on National Forest System lands.

PART V - SUMMARY OF ANALYSIS

Introduction/Background

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):
2. Property (P):
3. Natural Resources (NR):
4. Cultural and Heritage Resources:

B. Emergency Treatment Objectives: None at this time. 4100 acres (NE quadrant) of the Red Apple Fire are within the perimeter of the 2010 Swakane Fire. No treatments were proposed for that area in 2010 and no reports of any post fire impacts were observed or reported within the reburned area. Within the Red Apple Fire perimeter, approximately 740 acres of predominantly grasslands and shrubs. were identified as burned with mostly low or moderate burn severity (see Part III A,) About 320 of those acres were also burned during the 2010 Swakane Fire and 75% of those acres (243) were identified as low burn severity. Given no reported post fire impacts in this area in 2010 and similar burn severities in 2021, this supports not proposing any BAER treatments. We anticipate that any concerns would be covered during suppression repair, scheduled this fall. If post-fire impacts occur that were not anticipated and still my qualify for BAER funding, we may submit an interim request for treatments that can be implemented later this fall.

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

Land: N/A
 Channel: N/A
 Roads/Trails: N/A
 Protection/Safety: N/A

D. Probability of Treatment Success N/A

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): N/A

F. Cost of Selected Alternative (Including Loss): N/A

G. Skills Represented on Burned-Area Survey Team:

- | | | | | |
|-------------------------------------------|-----------------------------------------------|--------------------------------------|-----------------------------------------|--------------------------------------|
| <input type="checkbox"/> Soils | <input checked="" type="checkbox"/> Hydrology | <input type="checkbox"/> Engineering | <input checked="" type="checkbox"/> GIS | <input type="checkbox"/> Archaeology |
| <input checked="" type="checkbox"/> Weeds | <input type="checkbox"/> Recreation | <input type="checkbox"/> Fisheries | <input type="checkbox"/> Wildlife | |

- Soils
 Hydrology
 Engineering
 GIS
 Archaeology
 Other:

Team Leader: Gregory A. Kuyumjian
Email: gregory.kuyumjian@usda.gov **Phone(s)** 509.293.3066

Forest BAER Coordinator: Molly Hanson
Email: molly.hanson@usda.gov **Phone(s):**509.306.5418

Team Members: *Table 7: BAER Team Members by Skill*

Skill	Team Member Name
<i>Team Lead(s)</i>	Greg Kuyumjian
<i>Soils</i>	
<i>Hydrology</i>	Molly Hanson
<i>Engineering</i>	
<i>GIS</i>	Robert Arlowe/Dolores Weisbaum
<i>Archaeology</i>	
<i>Weeds</i>	Brigitte Ranne
<i>Recreation</i>	
<i>Other</i>	

H. Treatment Narrative: N/A

Land Treatments:

Channel Treatments:

Roads and Trail Treatments:

Protection/Safety Treatments:

I. Monitoring Narrative: N/A

PART VI – EMERGENCY STABILIZATION TREATMENTS AND SOURCE OF FUNDS

Line Items	Units	Unit Cost	# of Units	BAER \$	Other \$	# of units	Fed \$	# of Units	Non Fed \$	Total \$
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			---	\$0		\$0		\$0	\$0
				---	\$0		\$0		\$0	\$0
<i>Insert new items above this line!</i>				---	\$0		\$0		\$0	\$0
<i>Subtotal Evaluation</i>				\$0	\$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										
Previously approved				\$0	\$0		\$0		\$0	\$0
Total for this request				\$0	\$0		\$0		\$0	\$0

PART VII - APPROVALS

1. _____
 Forest Supervisor Date