USDA-FOREST SERVICE FS-2500-8 (6/06)

Date of Report: 12/11/2007

BURNED-AREA REPORT

(Reference FSH 2509.13)

PART I - TYPE OF REQUEST

| Type of Report | | | | | |
|---|---|--|--|--|--|
| [] 1. Funding request for estimated emerge[] 2. Accomplishment Report[X] 3. No Treatment Recommendation | ncy stabilization funds | | | | |
| Type of Action | | | | | |
| [] 1. Initial Request (Best estimate of funds | needed to complete eligible stabilization measures) | | | | |
| [] 2. Interim Report # | pased on more accurate site data or design analysis | | | | |
| [] 3. Final Report (Following completion of work) | | | | | |
| <u>PART II - BUR</u> | NED-AREA DESCRIPTION | | | | |
| Fire Name <u>: Wilkins</u> | B. Fire Number: AZ-ASF-070537 | | | | |
| State: Arizona (04) | D. County: Coconino | | | | |
| Region: Southwest (03) | F. Forest: Apache-Sitgreaves (01) | | | | |
| District: Black Mesa (02) | H. Fire Incident Job Code: P3DOZO | | | | |
| ate Fire Started: Sept 12, 2007 | J. Date Fire Contained: Nov 16, 2007 | | | | |
| Suppression Cost: \$60,000 | | | | | |
| Fire Suppression Damages Repaired with Sup 1. Fireline waterbarred (miles): 2 m 2. Fireline seeded (miles): 0 3. Other (identify): 0 | | | | | |
| Watershed Number: 1502000803 Upper Cle | ear Creek | | | | |
| Total Acres Burned: <u>7,762</u> NFS Acres (7,762) Other Federal () Stat | e () Private () | | | | |
| Vegetation Types: Ponderosa Pine | | | | | |
| Dominant Soils: TES MU 179, 189, 192, 196, | 199 | | | | |
| | [] 1. Funding request for estimated emerge [] 2. Accomplishment Report [X] 3. No Treatment Recommendation Type of Action [] 1. Initial Request (Best estimate of funds [] 2. Interim Report # [] Updating the initial funding request [] Status of accomplishments to date [] 3. Final Report (Following completion of PART II - BUR Fire Name: Wilkins State: Arizona (04) Region: Southwest (03) District: Black Mesa (02) ate Fire Started: Sept 12, 2007 uppression Cost: \$60,000 Fire Suppression Damages Repaired with Sup 1. Fireline waterbarred (miles): 2 m 2. Fireline seeded (miles): 0 3. Other (identify): 0 Watershed Number: 1502000803 Upper Clear (1502000803) Uppe | | | | |

Q. Geologic Types: Coconino Sandstone, Kaibab Limestone

| R. | Miles of Stream Channels by Order or Class: 24 miles intermittant, 16 miles ephemeral | | | | | | | |
|----|---|--|--|--|--|--|--|--|
| S. | Transportation System | | | | | | | |
| | Trails: 0 miles Roads: 110 miles open and closed | | | | | | | |
| | PART III - WATERSHED CONDITION | | | | | | | |
| Α. | Burn Severity (acres): 5919 (low) 373 (moderate) 0 (high) 1470 (unburned) | | | | | | | |
| В. | Water-Repellent Soil (acres): None found | | | | | | | |
| C. | Soil Erosion Hazard Rating (acres): (low) (moderate)(high) | | | | | | | |
| D. | . Erosion Potential: <u>10.0</u> tons/acre | | | | | | | |
| E. | Sediment Potential: 6,425 cubic yards / square mile | | | | | | | |
| | PART IV - HYDROLOGIC DESIGN FACTORS | | | | | | | |
| Α. | Estimated Vegetative Recovery Period, (years): 1-2 yrs. | | | | | | | |
| В. | Design Chance of Success, (percent): | | | | | | | |
| C. | Equivalent Design Recurrence Interval, (years): | | | | | | | |
| D. | Design Storm Duration, (hours): | | | | | | | |
| E. | Design Storm Magnitude, (inches): | | | | | | | |
| F. | Design Flow, (cubic feet / second/ square mile): | | | | | | | |
| G. | Estimated Reduction in Infiltration, (percent): > 5% | | | | | | | |
| Η. | Adjusted Design Flow, (cfs per square mile): | | | | | | | |
| | PART V - SUMMARY OF ANALYSIS | | | | | | | |
| A. | Describe Critical Values/Resources and Threats: | | | | | | | |

Soil Burn Severity was provided by RSAC and verified in the field December 4, 2007. Risk to all of the following values are considered to be low due to the limited amount of moderate soil burn severity acres, and with no high soil burn severity acres. Those resource values at low risk include loss of soil productivity, downstream values to streamside vegetation and fish habitat, sediment input to Clear Creek Reservoir, damage to road and stream structures and dam downstream from high flows, loss of spotted owl habitat. There was an estimated total of 2 to 3 inch of rain on December 1st and 2nd that did not result in accelerated soil loss, or show evidence of unusual runoff within tributaries of Wilkins Canyon, the main drainage within the fire. Soil moisture infiltration was deep in upland sites (up to 12 inches in the sampled areas). Litter and duff was only partially consumed under the tree canopies, fire killed trees still have needles that will eventually fall and provide additional protective litter. Emergency consultation was completed for MSO and available for review

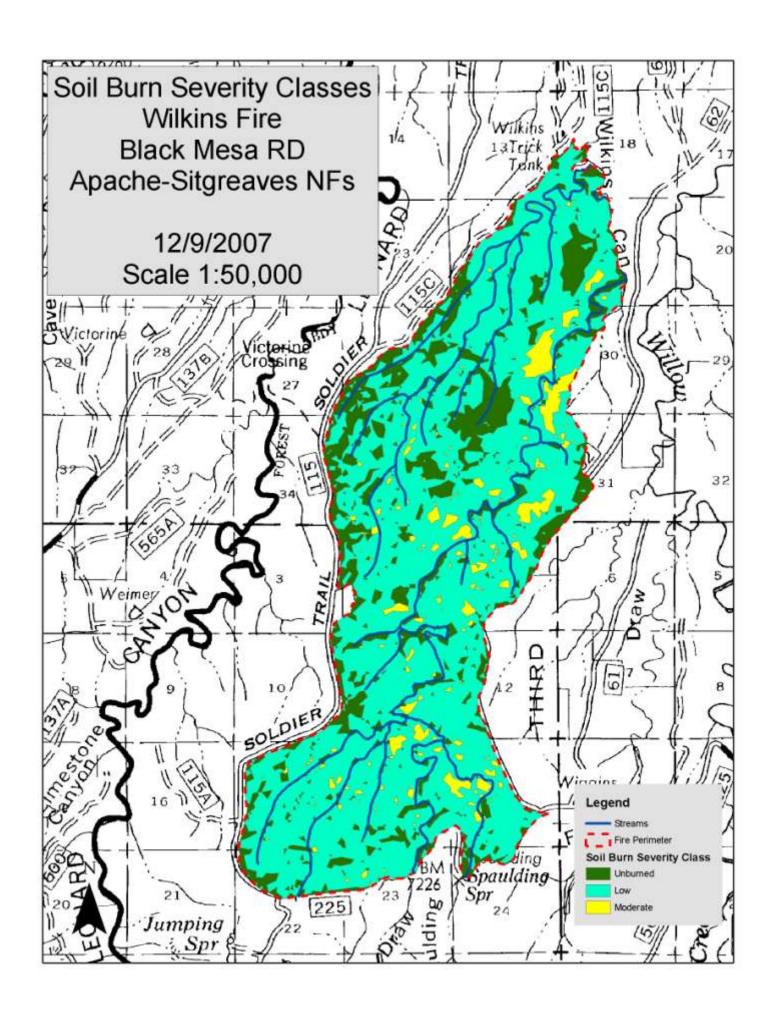
on request. It is the BAER team's recommendation that no treatments be prescribed and implemented on this burned area as soil cover was not significantly reduced and soil infiltration was not affected.



Typical ground cover conditions under low to moderate soil burn severity.



Fire killed trees, however some duff and litter remains on the soil surface. Needle cast as well as grass reestablishment will contribute to ground cover to protect soils.



B. Emergency Treatment Objectives: None Recommended. C. Probability of Completing Treatment Prior to Damaging Storm or Event: N/A 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 G. Skills Represented on Burned-Area Survey Team: [X] Hydrology [X] Soils [x] Range [] Geology [] Fire Mgmt. [] Engineering [] Forestry [X] Wildlife [] Contracting [] Botany [x] Archaeology (para) [] Ecology [] Fisheries [] Research [] Landscape Arch [X] GIS RSAC Team Leader: Chris A. Nelson Email: canelson@fs.fed.us Phone: 928-333-6303 FAX:928-333-5966

H. Treatment Narrative: N/A

I. Monitoring Narrative: N/A

Part VI – Emergency Stabilization Treatments and Source of Funds Interim #

| | | | Ø | | | Other Lands | | | All | | |
|-----------------------------------|-------|------|-------|---------|-------------|-------------|-------|-----|-------|-------------|----------|
| | | Unit | # of | | | â | # of | Fed | # of | Non Fed | Total |
| Line Items | Units | Cost | Units | BAER \$ | | Ŕ | units | \$ | Units | \$ | \$ |
| | | | | · | - | X | | | | | · |
| A. Land Treatments | | | | | | Š | | | | | |
| | | | | \$0 | \$0 | 8 | | \$0 | | \$0 | \$0 |
| | | | | \$0 | \$0 | | | \$0 | | \$0 | \$0 |
| | | | | \$0 | \$0 | 8 | | \$0 | | \$0 | \$0 |
| Insert new items above this line! | | | | \$0 | \$0 | X | | \$0 | | \$0 | \$0 |
| Subtotal Land Treatments | | | | \$0 | \$0 | X | | \$0 | | \$ 0 | \$0 |
| B. Channel Treatmen | ts | | | | | X | | | • | • | |
| | | | | \$0 | \$0 | X | | \$0 | | \$0 | \$0 |
| | | | | \$0 | \$0 | X | | \$0 | | \$0 | \$0 |
| | | | | \$0 | \$0 | X | | \$0 | | \$0 | \$0 |
| Insert new items above this line! | | | | \$0 | \$0 | X | | \$0 | | \$0 | \$0 |
| Subtotal Channel Treat. | | | | \$0 | \$0 | 8 | | \$0 | | \$ 0 | \$0 |
| C. Road and Trails | | | | | | 8 | | • | | | |
| | | | | \$0 | \$0 | 8 | | \$0 | | \$0 | \$0 |
| | | | | \$0 | \$0 | 8 | | \$0 | | \$0 | \$0 |
| | | | | \$0 | \$0 | 8 | | \$0 | | \$0 | \$0 |
| Insert new items above this line! | | | | \$0 | \$0 | 8 | | \$0 | | \$0 | \$0 |
| Subtotal Road & Trails | | | | \$0 | \$0 | 8 | | \$0 | | \$ 0 | \$0 |
| D. Protection/Safety | | | | | | X | | | | | |
| | | | | \$0 | \$0 | X | | \$0 | | \$0 | \$0 |
| | | | | \$0 | \$0 | X | | \$0 | | \$0 | \$0 |
| | | | | \$0 | \$0 | _ | | \$0 | | \$0 | \$0 |
| Insert new items above this line! | | | | \$0 | \$0 | X | | \$0 | | \$0 | \$0 |
| Subtotal Structures | | | | \$0 | \$ 0 | X | | \$0 | | \$ 0 | \$0 |
| E. BAER Evaluation | | | | | | X | | | | | |
| | | | | | | X | | \$0 | | \$0 | \$0 |
| Insert new items above this line! | | | | | \$2,200 | X | | \$0 | | \$0 | \$2,200 |
| Subtotal Evaluation | | | | | \$2,200 | Š | | \$0 | | \$ 0 | \$2,200 |
| F. Monitoring | | | | | | 8 | | | | | |
| | | | | \$0 | \$0 | | | \$0 | | \$0 | \$0 |
| Insert new items above this line! | | | | \$0 | \$0 | | | \$0 | | \$0 | \$0 |
| Subtotal Monitoring | | | | \$0 | \$0 | 8 | | \$0 | | \$0 | \$0 |
| | | | | _ | A | X | | | | | A |
| G. Totals | | | | \$0 | \$2,200 | X | | \$0 | | \$0 | \$2,200 |
| Previously approved | | | | | | X | | | | | |
| Total for this request | | | | \$0 | | X | | | | | |

PART VII - APPROVALS

| Forest Supervisor (signature) | Date |
|-------------------------------|------|
| | |
| Regional Forester (signature) | Date |