UNITED STATES DEPARTMENT OF AGRICULTURE | FOREST SERVICE | Shasta-Trinity NFs

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REPLY TO: 2500 Watershed (5150)

DATE: May 13, 1985

SUBJECT: Twelve Fire Burned Area Report

TO: Regional Forester, R-5
Attn: Watershed Management

Following is the Burned Area Report for the Twelve Fire, Weaverville Ranger District.

/S/WILLIAM V. CARPENTER, FOR
ROBERT R. TYRREL
Forest Supervisor

Enclosure

USDA-FOREST SERVICE Date of Report: 5-6-85

BURNED AREA REPORT
(Reference FSH 2509.13, Report FS-2500-A)

PART I - TYPE OF REQUEST

1. Type of Report

[X] A. Funding (Request for estimated FFF funds)
[ ] B. Accomplishment Report

2. Type of Action

[X] A. Initial (estimated funding is first requested)
[ ] B. Interim

[ ] Updating the initial funding request.
[ ] Supplying information for accomplishments to date on emergency work underway.

[ ] C. Final

[ ] Best estimate for funds needed to complete eligible rehabilitation measure.
[ ] Following completion of funded work.

PART II - FIRE LOCATION

1. Fire Name (from Form FS-5100-29): TWELVE
2. Forest Supervisor's Fire No. (from Form FS-5100-29): 13
3. State: California
4. County: Trinity
5. Region: 5
6. Forest: Shasta-Trinity
7. Ranger District: Weaverville
8. Date Fire Started: 5-2-85
9. Date Fire Controlled: 5-6-85
10. Estimated Suppression Costs: $250,000
11. Fire Suppression Damages Repaired with FFF 102 Funds:

__2.0__ miles (firelines waterbarred)
_____ acres (firelines seeded)
_____ Other (identify)

12. Fire Intensity: __10__ % (low) __30__ % (medium) __60__ % (high)

PART III - NATIONAL FOREST SYSTEM PROBLEM INVENTORY

1. Watershed No.: 01 02 11 05 (Rancheria, tributary to Swift Creek)
2. NFS Acres Burned: 150
3. Water Repellant Soil: __15__ % of NFS acres burned

4. Vegetation Types: Mixed Conifer (P. Pine, Douglas Fir, Incense Cedar)
5. Geologic Types: Copley Greenstone, Meta-sediments
6. Soil Erosion Hazard Rating:

   20 % (low) 20 % (medium) 40 % (high)

7. Erosion Potential: 10,240 cu. yds/sq. miles
8. Miles of Stream Channels by Regional Order or Classes: 2.0 miles, Class 2
9. Miles of Forest Service Trails: 0
10. Miles of Forest Service Roads by Maintenance Levels:

    0 miles (Level I) 4.0 miles (Level II)
    0.5 miles (Levels III, IV, V)

PART IV - CALCULATED RISK AND CLIMATIC EVALUATION

1. Estimated Vegetative Recovery Period: 5 years.
2. Chance of Success Desired by Management: 80 percent.
3. Equivalent Design Recurrence Period: 25 years.
4. Related Design Storm Duration: 6 hours.
5. Related Design Storm Magnitude: 2.16 inches.
6. Related Design Flow: 181 cfsm.
7. Estimated Reduction in Infiltration: 20 percent.
8. Adjusted Related Design Flow: 217 cfsm.

PART V - SUMMARY OF SURVEY AND ANALYSIS

1. Skills Represented on Burned Area Survey Team ("x" appropriate boxes):

[X] Hydrology	[X] Soils	[X] Geology	[ ] Range
[X] Timber	[X] Wildlife	[X] Fire Mgmt.	[ ] Engineering
[ ] Contracting	[ ] Local Mgmt.	[ ] Research	[ ] Other (identify)

2. Describe Emergency: Fire burned with high intensity through Class 2 Stream
3. Emergency Rehabilitation Objective: Control erosion in riparian area
4. Probability of Completing Treatment Prior to First Major Damage Producing Storm:

   Land 80 % Channel 85 % Roads 90 % Other _____ %

5. Net Environmental Quality Benefit Index:

   [X] Significant [ ] Not Significant

6. Net Social Well Being Benefit Index:

   [ ] Significant [X] Not Significant

7. Benefit/Cost Ratio: 1.17
8. Net Benefits: $ 4,315
9. Cost Effectiveness Index: [ ] I. [X] II. [ ] III. [ ] IV.