USDA-FOREST SERVICE Date of Report: 2/27/95

Okanogan
Ken did

BURNED-AREA REPORT
(Reference FSH 2509.13, Report FS-2500-8)

PART I - TYPE OF REQUEST

A. Type of Report

[ ] 1. Funding request for estimated EFFS-FW22 funds
[X] 2. Accomplishment Report
[ ] 3. No Treatment Recommendation

B. Type of Action

[ ] 1. Initial Request (Best estimate of funds needed to complete eligible rehabilitation measures)

[ ] 2. Interim Report
[ ] Updating the initial funding request based on more accurate site data and design analysis
[ ] Status of accomplishments to-date

[X] 3. Final report - following completion of work

PART II - BURNED-AREA DESCRIPTION

A. Fire Name: **Poorman** B. Fire Number: **WA-OKF-053**

C. State: **WA** D. County: **Okanogan**
E. Region: **Pacific Northwest** F. Forest: **Okanogan**
G. District: **Methow Valley (Twisp)**

H. Date Fire Started: **7/25/94** I. Date Fire Controlled: **7/30/94**
J. Suppression Cost: **$ 300,000**

K. Fire Suppression Damages Repaired with EFFS-PF12 Funds:
1. Fireline waterbarred (miles) **7.4**
2. Fireline seeded (miles) **2**
3. Other (identify) **obliterate .2 miles**

L. Watershed Number: **170200081002000**

M. NFS Acres Burned: **813** Total Acres Burned: **813**
Ownership type:
(trace) State ( )BLM **(trace)**PVT ( )____ _____

N. Vegetation Types: **Ponderosa Pine, Douglas Fir, sagebrush, bunchgrass**

O. Dominant Soils: **Glacial tills covered with volcanic ash northern aspects Southern aspect soils are residual, shale derived.**

P. Geologic Types: **shale**

Q. Miles of Stream Channels by Order or Class:
0 **0** **.8** **.7**

R. Transportation System:
Trails: **0** (miles) Roads: **0** (miles)

PART III - WATERSHED CONDITION

A. Fire Intensity (Acres): 325 (low) 445 (moderate) 43 (high)

B. Water Repellant Soil (Acres): 20

C. Soil Erosion Hazard Rating (Acres):
100 (low) 463 (moderate) 250 (high)

D. Erosion Potential: .2 tons/acre
E. Sediment Potential: 125 cu. yds/sq. mile

PART IV - HYDROLOGIC DESIGN FACTORS

A. Estimated Vegetative Recovery Period: 3 years.
B. Design Chance of Success: 80 percent.
C. Equivalent Design Recurrence Interval: 14 years.
D. Design Storm Duration: 24 hours.
E. Design Storm Magnitude: 2.0 inches.
F. Design Flow: 8 cfsm.
G. Estimated Reduction in Infiltration: 5 percent.
H. Adjusted Design Flow: 9 cfsm.

PART V - SUMMARY OF ANALYSIS

A. Describe Emergency:
The Poorman fire severly burned an unnamed tributary to Poorman Creek destroying vegetation and exposing soils on slopes with gradients of 100% or more. With no vegetation to cover the slopes, probable fall or summer rains will wash significant amounts of sediment into the stream. This stream is a tributary to Poorman Creek where fish are present. Poorman Creek drains directly into the Twisp River, a Tier 1 Watershed in the President's Pacific Northwest Forest Plan.

B. Emergency Treatment Objectives:

- Maintain surface water flow in the stream channel
- Minimize sediment impact on Poorman Creek resident fisheries
- Maintain water quality of Poorman Creek
- Maintain soil productivity

C. Probability of Completing Treatment Prior to First Major Damage Producing Storm:
Land 100 % Channel _____ % Roads _____ % Other _____ %

D. Probability of Treatment Success

	<----Years after treatment----->		
	1	3	5
Land	60	80	100
Channel			
Roads			
Other			

E. Cost of No-Action (Including Loss): $ 11400

F. Cost of Selected Alternative (Including Loss): $ 7983

G. Skills Represented on Burned-Area Survey Team:

[X] Hydrology	[ ] Soils	[ ] Geology	[X] Range
[ ] Timber	[ ] Wildlife	[ ] Fire Mgmt.	[ ] Engineering
[ ] Contracting	[ ] Ecology	[ ] Research	[ ] Archaeology
[X] Fisheries	[X] Botanist	[ ] _____	[ ] _____

Team Leader: Mel Bennett
Phone: 509/826-3164 DG Address: :oka

H. Treatment Narrative:
Describe the emergency treatments, where and how they will be applied, and what they are intended to do. This information helps to determine qualifying treatments for the appropriate funding authorities. For seeding treatments, include species, application rates and species selection rationale.

Seed the intensely burned area along the unnamed tributary to Poorman Creek in sec 21, T33N, R21E.

Place and anchor logs horizonaly along the slope above the stream channel. Logs should be 6-10 inches or larger in diameter.

Install temporary fencing above and below the treatment area to protect the rehab investment from grazing livestock.

Seed mix:

Orchard grass	2 lbs/acre
Hard Fescue	3 lbs/acre
"Regreen"	2 lbs/acre

PART VI - EMERGENCY REHABILITATION TREATMENTS AND SOURCE OF FUNDS BY LAND OWNERSHIP

NOTE: Emergency rehabilitation is work done promptly following a wildfire and is not to solve watershed problems that existed prior to the wildfire.

Line Items	Units	Unit Cost $	NFS Lands Number of Units	NFS Lands EFFS-FW22 $	NFS Lands Other $ ident.	Other Lands Number of Units	Other Lands Fed $ ident.	Other Lands Non-Fed $ ident.	All Total $
A. LAND TREATMENTS									
Temporary Fence	miles	1000	.25	250					250
Seed Cost	Acres	20	10	200					200
Contour Felling	1000'	500	3.1	1550					1550
Seed Application	Acres	30	10	300					300
B. CHANNEL TREATMENTS									
None									
C. ROADS AND TRAILS									
None									
D. STRUCTURES									
None									
E. BAER EVALUATION/ ADMINISTRATIVE SUPPORT									
BAER Eval				300					300
Monitoring/Evaluation				100					100
F. TOTALS				2700					2700

PART VII - APPROVALS

1. /S/ JOE M. SANCHEZ (for) — 2/27/95
   Forest Supervisor (Signature) — Date

2. /s/ —
   Regional Forester (Signature) — Date