

**AUGUST 2001 FIRE COMPLEX
BURNED AREA EMERGENCY STABILIZATION REHABILITATION PLAN**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	Directional Instream Tree Falling	AGENCY:	BLM, Elko Field Office
PART E LINE ITEM:	#5 F- 5 Directional Instream Tree Falling - Mile Marker 367	FISCAL YEAR(S) (list each year):	2002 -2004

I. WORK TO BE DONE

<p>A. General Description: Directional Tree Falling of Pinyon and Juniper trees within the stream channel.</p> <p>B. Location/(Suitable) Sites: Selected portions of the stream channel within the Mile Marker 367 fire (X-256), within channel gradients less than 10 percent.</p> <p>C. Design/Construction Specifications:</p> <ol style="list-style-type: none"> 1. Tree size: 6 to 14 inches (diameter at breast height) 2. Species: Any available Pinyon or Juniper that is fairly straight in form. 3. Construction process: First, the selected tree is fallen directly across the channel, at right angles to streamflow. A variation of up to 45 degrees from right angle to the streamflow is acceptable. Second, the underside of the tree is limbed, starting at the lowest limbs and ending when the tree is in contact with the ground (streambed), leaving as much as the crown intact as possible to help slow runoff and trap sediments. The length of the selected trees should be at least 10 to 20 feet. 4. Density: The target spacing is 2 trees per 100 feet of channel, with one tree on each side of the channel, to approximate 106 trees per mile. Tree tops may overlap, but is not required. 5. Safety: Standing dead trees that are a hazard to the chainsaw operator during the falling process should be avoided, or the hazard tree should be fallen first if it can be done safely. If the tree cannot be fallen safely then avoid the area affected by the hazard tree. 6. Equipment: Chainsaw with proper safety equipment, wedges, single bit ax, pulaskis, extra chains, saw gas and oil. <p>D. Purpose of Treatment Specifications: The primary purpose of the practice is to trap suspended sediments and floatable debris, add mechanical strength to the channel bedload, prevent downcutting, and moderate the energy release so that a destructive flood does not develop.</p> <p>E. Treatment Effectiveness Monitoring Proposed: Percent of fallen trees that trap sediment. Data collected to date indicates Excellent results 29% (of 35 tests), Good results 37%, Fair results 14%, Poor results 20%.</p>

II. LABOR, MATERIALS AND OTHER COST:

<p>► PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item): Do not include contract personnel costs here (see contractor services below).</p>	COST/ITEM
GS-11 Layout and supervision of specifications @ \$250/day X 2 days	\$500
20 person Type 1 fire crew with saws @ \$2840.20/12 hr day X 2 days	\$5,680
TOTAL PERSONNEL SERVICE COST	\$6,180
<p>► EQUIPMENT PURCHASE, LEASE AND/OR RENT (Item @ Cost/Hour X # of Hours X #Fiscal Years = Cost/Item): Note: Purchases require written justification that demonstrates cost benefits over leasing or renting.</p>	COST/ITEM
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	N/A
<p>► MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X #Fiscal Years = Cost/Item):</p>	COST/ITEM
Saw chains, gas, oil, wedges, safety equipment, etc.	\$200

TOTAL MATERIALS AND SUPPLY COST	\$200
▶ TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):	COST/ITEM
5 vehicles @ .20/mile X 142 miles roundtrip X 2 days	\$284
TOTAL TRAVEL COST	\$284
▶ CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	COST/ITEM
TOTAL CONTRACT COST	N/A

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNITS COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	Acre	\$222.13	30.0	\$6,664	EFR	FC,P
TOTAL						

FUNDING SOURCE

F - Suppression Operations
EFR - Emergency Fire Rehabilitation
EWP - Emergency Watershed Protection
OP/O - Agency Operations/Other

METHODS

P - Agency Personnel Services
C - Contract (long-term)
EFC - Emergency Fire Contract (short-term)
FC - Incident Management Crew Assignment

SOURCE OF COST ESTIMATE

1. Estimate obtained from 2-3 independent contractual sources.	
2. Documented cost figures from similar project work obtained from local agency sources.	
3. Estimate supported by cost guides from independent sources or other federal agencies	
4. Estimates based upon government wage rates and material cost.	P,M
5. No cost estimate required - cost charged to Fire Suppression Account	

P = Personnel Services, E = Equipment M = Materials/Supplies, T = Travel, C = Contract, F = Suppression

III. RELEVANT DETAILS, MAPS AND DOCUMENTATION INCLUDED IN THIS REPORT:

<p>List Relevant Documentation and Cross-Reference Location within ESR Plan Accomplishment Report (for Rehabilitation treatments quote (include page number, approving officials name, and date approved for review and auditing purposes) pertinent passages from approved land management plans:</p>
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