

**DEPARTMENT OF THE INTERIOR
ELKO FIELD OFFICE
BURNED AREA EMERGENCY REHABILITATION PLAN AND ACCOMPLISHMENT REPORT**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	WATERSHED PROTECTION SEEDING (AERIAL)	AGENCY:	BLM Elko F.O.
PART E LINE ITEM:	W-1a Grass Reseeding (BLM 98-148 III BB)	FISCAL YEAR(S) (list each year):	2001 -2003

I. WORK TO BE DONE

<p>Number and Describe Each Task:</p> <p>A. General Description: Aerially seed drainages on the Double Mountain, Isolation, and Maggie Creek Fires with perennial grasses and forbs to provide short-term (the first growing season) and long-term plant cover to reduce erosion and sedimentation into the drainages that would occur following a wildfire without treatment.</p> <p>B. Location (Suitable) Sites: Locations were mapped by BLM Resource Advisors in strategic locations based on burn intensity, slope, and extent of the watershed that burned.</p> <p>C. Design/Construction Specifications:</p> <ol style="list-style-type: none"> 1. SEED MIXTURE SELECTION: The seed mixture was developed to provide short-term (the first growing season) and long-term plant cover to reduce erosion and sedimentation into the drainages. Before accepting delivery of seed shipment the contractor must provide evidence (seed label and letter) to the Resource Advisor that the seed conforms to the purity and germination requirements in the specification. Test methods specified in <i>Rules for Testing Seeds, Proceedings of the Association of Official Seed Analyst</i> will be accepted for determining the germination rate. Seed designated without a purity or germination rate shall be labeled to include name, month and year collected, and the name and address of the seed supplier. 2. Delivery: Deliver certified weed-free seed sold on a pure live seed basis. 3. Application of Seed: The seed will be applied aerially by helicopter in the fall. Seed should be applied according to Agency Project Specifications. 4. Storage: Seed should be stored under cover to protect it from moisture, rodents, and livestock. <p>D. Purpose of Treatment Specifications: To provide short and long-term vegetative cover to important drainages to reduce erosion and sedimentation.</p>
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II. LABOR, MATERIALS AND OTHER COST:

▶ PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item Do not include contract personnel costs here (see contractor services below).	COST/ITEM
Project Inspector GS-11 @ \$25.00/hr X 10 hrs/day X 4 days x 1 Year	\$1,000.00
Survey, flag, and design aerial seeding @ 25.00/hr x 10 hrs/day x 4 days x 1 year	\$1,000.00
Air Support Personnel (Helitak seasonals orAD hires) @ \$ 1,000/day X 3 days X 1 Year	\$3,000.00
TOTAL PERSONNEL SERVICE COST	\$5,000.00
▶ EQUIPMENT PURCHASE, LEASE AND /OR RENT (Item @ Cost/Hour X # of House X # Fiscal Years = Cost/Item): Note: Purchase require written justification that demonstrates cost benefits over leasing or renting.	COST/ITEM
Helicopter Seed Buckets Rental: 2 buckets @ \$500/day per bucket X 3 days x 1 Year	\$1,500.00
Vehicle cost @ \$33.00 per day x 3 days x 2 Vehicles x 1 year	\$198.00
Vehicle cost @ .17 per mile x 250 miles day x 3 days x 2 vehicles x 1 year	\$255.00
Vehicle fuel cost @ \$40.00 per day x 3 days x 2 vehicles x 1 year	\$240.00
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	\$2,193.00

► MATERIALS AND SUPPLIES: (Item @ Cost/Each X Quantity X # Fiscal Years = Cost/Item):	COST/ITEM
Aerial Seed Mix Seed Costs @ \$5.50/avg price/lb X 15,867 lbs (bulk) X 1yr	\$87,269.00
TOTAL MATERIALS AND SUPPLY COST	\$87,269.00
► TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):	COST/ITEM
Seed transport vehicle x \$.50/mile x 250 miles per day x 3 days x 1 Year	\$375.00
Support Vehicle: \$1.00/mile X 250 miles/day X 3 days x 1 Year	\$750.00
Per Diem for pilot and mechanic @ \$168/day X 3 days x 1 year	\$504.00
Fuel truck milage @ \$1.00/mile X 250/mile X 3 days x 1 year	\$750.00
TOTAL TRAVEL COST	\$2,379.00
► CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	COST/ITEM
Seed Storage Cost @ 300wk x 26 weeks x 1 year	\$7,800.00
Seed mixing cost @ \$.10/lb. X 15,867 lbs x 1 Year	\$1,587.00
Seed fertilizer coating @ \$.30/lb. X 15,867 lbs X 1 Year	\$4,760.00
Seed application by helicopter @ \$7.25/ac X 1061 ac X 1 Year	\$7,692.00
4% Contract Administration and oversight to agency	\$874.00
TOTAL CONTRACT COST	\$22,713.00

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	acres	\$112.68	1061	\$119,554.00	ESR	C, P
FY 2						
FY 3						
TOTAL:	acres	\$112.68	1061	\$119,554.00	ESR	C, P

FUNDING SOURCES:

F = Fire Suppression Account
ESR = Emergency Stabilization Rehabilitation
OP = Agency Operating Fund
O = Other

METHODS:

P = Agency Personnel Services
C = Contract (Long-Term)
EFC = Emergency Fire Contract
FC = Crew Labor Assigned to Fire

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.	C
4. Estimates based upon government wage rates and material cost.	M, P
5. No cost estimate required - cost charged to Fire Suppression Account.	

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

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

List Relevant Documentation and Cross-Reference Location within BAER Report: Treatment areas located in Treatment Maps (see map index). Seed mixtures attached prices obtained from BLM Warehouse & 1999 seed price list.

IV. TOTAL COST BY FIRE

FIRE NAME	UNITS TREATED	COST
Double Mountain	165 Acres	\$18,592.28
Isolation	525 Acres	\$59,157.26
Maggie Creek	371 Acres	\$41,804.46
TOTAL COST	1061 aces	\$119,554.00

**COST ESTIMATE FOR SEED
2000 ELKO 21 FIRE COMPLEX**

Notes:

Estimates derived from either the actual 1999 cost to the Elko Field Office or the 8/11/99 seed list from Boise Seed Cache; prices were increased 20%. The exceptions are forage kochia and Basin big sagebrush which was based on the estimated cost at the 2000 seed buy. Where species were not listed, the next closest species was used (i.e., Mountain big sagebrush was not listed so used the price and germination for Basin big sagebrush.)

W-1 (BLM 98-148 III P)

Watershed Protection Seeding (aerial)

Aerial Watershed Protection Seed Mix							
Species	Rate/ac lbs.	Min % PLS	Cost/lb. PLS	Cost/lb. Bulk	Acres	Bulk lbs.	Total Cost
Double Mountain							
Critana Thickspike Wheatgrass	4.0	80%	7.55		165	850	\$ 6,418
Sodar Streambank Wheatgrass	6.0	80%	5.14			1250	\$ 6,425
Western Yarrow	0.1	95%	7.19			50	\$ 360
Small Burnet	1.0	75%	3.26			250	\$ 815
Total						2,400	\$ 14,018
Isolation							
Triticale	2.0	80%	5.14		525	1350	\$ 6,939
Critana Thickspike Wheatgrass	4.0	80%	7.55			2650	\$ 20,009
Oahe Intermediate Wheatgrass	6.0	92%	3.26			3450	\$ 11,247
Total						8,217	\$ 38,195
Maggie Creek							
Triticale	2.0	80%	5.14		371	950	\$ 4,883
Critana Thickspike Wheatgrass	4.0	80%	7.55			1850	\$ 13,968
Oahe Intermediate Wheatgrass	6.0	92%	3.26			2450	\$ 7,987
Total						5,250	\$ 26,838