

**BUREAU OF LAND MANAGEMENT
ELKO FIELD OFFICE
BURNED AREA EMERGENCY REHABILITATION PLAN AND ACCOMPLISHMENT REPORT**

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	RESEED BURNED-OVER RANGE USING DRILL OR AERIAL METHODS	AGENCY:	BLM, Elko F.O.
PART E LINE ITEM:	N-3b Ecological Stabilization - Planting/Seeding (BLM 98-148 III. Q)	FISCAL YEAR(S) (list each year):	2001 - 2003

I. WORK TO BE DONE

Number and Describe Each Task:	
<p>A. General Description: Fires within the Elko 14 Fire Complex have negatively impacted mid to late seral plant communities and increased the potential for erosion, loss of ecological integrity through the invasion of non-native species, and the spread of known populations of noxious weeds. Range sites within the 14 fires covered under this plan have been analyzed and prioritized for treatment to prevent site degradation, maintain ecological stability, and prevent spread of non-native, invasive weeds along roads by reseeding using species adapted to the sites.</p> <p>B. Location (Suitable) Sites: Egbert and Upper Clover Fires. See Map Index, Treatment Section</p> <p>Site Preparation:</p> <ol style="list-style-type: none"> a. Seed mixtures as identified for each treatment area b. Seeding areas have been pre-identified for treatment c. Appropriate clearances (NEPA and Archaeological) are obtained d. Equipment is calibrated to project specifications established and administered by the local BLM Office e. Seed to be applied at specified rates using rangeland drills or aerially (helicopter) f. Monitoring conducted on seed application rates, treatment sites, and contractual specification compliance during seeding operations. <p>Seed: See attached Seed Mix</p> <ol style="list-style-type: none"> 1. Seed should be tested for purity and germination rates. Before accepting delivery of seed shipment the contractor must provide written 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 Analysts</i> will be acceptable for determining the germination rate. Seed designated without a purity or germination rate shall be labeled to include the name, date (month and year) collected, and the name and address of the seed supplier. 2. Delivery: Deliver pre-mixed certified weed-free seed sold on a pure live seed basis. Deliver to Contract Specified Location. 3. Storage: Seed should be applied as soon as possible after delivery. If immediate application is not possible the seed should be stored as follows: On-site stored seed must be protected from dew and rain. Seed must be stored under cover near a selected helibase site or near sites appropriate for basing ground (drilling operations) and protected from livestock and wildlife, etc. 4. Application Rate: Seed should be applied according to Agency Project Specifications. 5. Application Method: Pilot will apply according to line of sight and personal discretion, will utilize visible markers as necessary for swath continuity within the high to moderate fire severity areas. Tractor and drill operator will apply seed as flagged and at specified rates. <p>D. Purpose of Treatment Specifications: Stabilize soils in high to moderate burn intensity areas; protect the ecological integrity of native plant communities; and provide competing vegetation (cultural control methods) to prevent further spread of non-native, invasive weeds within the fire area.</p>	

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
Survey, design, & flagging for drill seeding GS-11 @ \$25.00/hr X 10 hrs/day X 10 days X Year 1	\$2,500.00
Project Inspector for drill seeding GS-11 @ \$25.00/hr X 10 hrs/day X 10 days X Year 1	\$2,500.00
Survey, design, & flagging for Aerial seeding GS-11 @ \$25.00/hr X 10 hrs/day X 2 days X Year 1	\$500.00
Project Inspector for Aerial seeding GS-11 @ \$25.00/hr X 10hrs/day X 2 days X Year 1	\$500.00
Air Support Personnel @ \$1000.00/day x 2 days (Helitack seasonals) x 1 year	\$2,000.00
TOTAL PERSONNEL SERVICE COST	\$8,000.00
▶ EQUIPMENT PURCHASE, LEASE AND /OR RENT (Item @ Cost/Hour X # of Hours X # Fiscal Years = Cost/Item): Note: Purchase require written justification that demonstrates cost benefits over leasing or renting.	COST/ITEM
Helicopter Seed Bucket Rental: 2 buckets @ \$500/ day per bucket x 2 days x 1 year	\$2,000.00
Vehicle cost @ \$33.00per day x 12 days x 2 vehicles x 1 year	\$792.00
Vehicle costs @ .17 per mile x 3000 miles x 2 vehicles x 1 year	\$1,020.00
Vehicle fuel costs @ \$40.00 per day x 12 days x 2 vehicles x 1 year	\$960.00
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	\$4,772.00
▶ MATERIALS AND SUPPLIES: (Item @ Cost/Each X Quantity X # Fiscal Years = Cost/Item:	COST/ITEM
Drill Seed Mix Average Seed Costs @ \$ 8.18/avg price/b X 8100 lbs (bulk) X 1 Year	\$66,258.00
Aerial Seed Mix Average Seed Costs @ \$ 32.54/avg price/lb X 780 lbs X 1Year	\$25,381.00
TOTAL MATERIALS AND SUPPLY COST	\$91,639.00
▶ TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item:	COST/ITEM
Seed transport vehicle for drill seeding @ \$.50/mile x 250 miles per day x 10 days X Year 1	\$1,250.00
Seed transport vehicle for aerial seeding @ \$.50/mile x 250 miles per day x 2 days X Year 1	\$250.00
Support Vehicle for aerial seeding @ \$2.00/mile X 250 miles/day X 12 days X Year 1	\$6,000.00
Per Diem for pilot and mechanic @ \$168/day X 2 days X 1 Year	\$336.00
Fuel truck milage @ \$1.00/mile X250/mile X 2days X 1 Year	\$500.00
TOTAL TRAVEL COST	\$8,336.00
▶ CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	COST/ITEM
Seed Storage 300/wk x 26 weeks x 1 year	\$7,800.00
Seed mixing cost for drill seeding mix @ \$0.10/lb. X 8100 lbs x 1 Year	\$810.00
Seed mixing cost for aerial seeding mix @ \$0.10/lb. X 780 lbs x 1 Year	\$78.00
Fertilizer coating for drill seeding mix @ \$0.30/lb. X 8100 lbs x 1 Year	\$2,430.00
Fertilizer coating for aerial seeding mix @ \$0.30/lb. X 780 lbs x 1 Year	\$234.00
Contracted Aerial Application @ \$7.25/acre X 254 acres x 1 year	\$1,841.00
Rangeland drill application @ \$13.50 /acre x 805 Acres X 1 Year	\$10,868.00
4% Contract Administration and oversight to agency @ 04%	\$962.00
TOTAL CONTRACT COST	\$25,023.00

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNIT COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 1	acres drill	\$117.29	805	\$94,416.00	ESR	C
FY 1	acres aerial	\$170.69	254	\$43,354.00	ESR	C
FY 2						
FY 3						
TOTAL:	acres	\$130.09	1059	\$137,770.00	ESR	C

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.	M, C
3. Estimate supported by cost guides from independent sources or other federal agencies.	
4. Estimates based upon government wage rates and material cost.	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). Seeding mixtures are attached.
 Seed mixtures are listed and discussed in the Vegetation Assessment and seed cost prices were obtained from the following: Grassland West:1-888-456-7712, Granite Seed Co.,801-531-1456, Blm Seed Warehouse:208-384-3417.

IV. TOTAL COST BY FIRE

FIRE NAME	UNITS TREATED	TREATMENT METHOD	COST
Egbert	551 acres	Drill	\$64,625.00
Upper Clover	254 acres	Drill	\$29,791.00
Upper Clover	254 acres	Aerial	\$43,354.00
TOTAL COST	1059 acres		\$137,770.00

ELKO 14 FIRE COMPLEX 2001

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.)

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Reseed Burned-Over Range Using Drill or Aerial or Broadcast Methods

Drill Seed Mixes							
Rangeland Seed Mix	Rate/ac lbs.	Min % PLS	Cost/lb. PLS	Cost/lb. Bulk	Acres	Bulk lbs.	Total Cost
Egbert							
Native Drill Mix					334		
Secar Snake River Wheatgrass	3.0	80%	10.66			1250	\$ 13,325
Inidan Ricegrass	3.0	80%	25.72			1250	\$ 32,150
Critana Thickspike Wheatgrass	3.0	80%	7.55			1250	\$ 9,438
Total						3750	\$ 54,913
Egbert							
Crested Wheat Mix					218		
Siberian Crested Wheatgrass	3.0	80%	3.05			850	\$ 2,593
Hycrest Crested Wheatgrass	3.0	80%	2.03			850	\$1,726
Total						1700	\$ 4319
Upper Clover							
					254		
Hycrest Crested Wheatgrass	2.0	80%	2.03			650	\$ 1320
Siberian Wheatgrass - Vavilov	2.0	80%	3.05			650	\$ 1983
Nordan Wheatgrass	2.0	80%	2.22			650	\$ 1443
Russian Wild Rye - Bozoiisky	2.0	75%	3.20			700	\$ 2240
Total						2650	\$ 6986

Aerial Seed Mixes							
Rangeland Seed Mix	Rate/ac lbs.	Min % PLS	Cost/lb. PLS	Cost/lb. Bulk	Acres	Bulk lbs.	Total Cost
Upper Clover							
Immigrant Forage Kochia	2.3	75%	32.54		254	780	\$ 8265
Total						780	\$ 8265