

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

PART F - SPECIFICATIONS

SPECIFICATION TITLE:	SUPPRESSION - DOZER LINE	AGENCY:	BLM, Elko Field Office
PART E LINE ITEM:	#9 0 - 4 DOZER LINE STABILIZATION	FISCAL YEAR(S) (list each year):	2002 - 2004

I. WORK TO BE DONE (describe or attach exact specifications of work to be done):

<p>Number and Describe Each Task:</p> <p>A. General Description: Seeding is to be completed via rangeland drill or helicopter. The District staff and equipment, primarily transport vehicles, will be used to move seed to and load seed from strategic staging points in close proximity to each fire. The need for seeding, seed selection and application rates were determined in consultation with local area resource management staff. Seeding will serve as an immediate, temporary ground cover to decrease surface erosion and help prevent invasion of exotic plants.</p> <p>B. Location/(Suitable) Sites: All designated interior and exterior dozer and fire lines. (See Appendix III, Treatment Map for fire line locations).</p> <p>C. Design/Construction Specifications:</p> <p>SEE ATTACHED SEED MIX</p> <p>1. SEED MIXTURE SELECTION AND CERTIFICATION: The seed mixture for the Elko Field Office fire lines was selected by the BAER Team Vegetation Specialist, Soil Scientist and Hydrologist in consultation with local agency staff based on agency staff policies, regulations and mandates. Seeds 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 Rules for Testing Seeds, Proceedings of the Association of Official Seed Analyst 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.</p> <p style="padding-left: 40px;">1. Equipment Requirements: Scales for weighing, buckets.</p> <p style="padding-left: 40px;">2. Application Rate: Seed will be applied at approximately 12.5 pounds per acre.</p> <p style="padding-left: 40px;">3. Seed Mixing: When mixing seeds of very different sizes and weights care must be taken to ensure that seeds are evenly distributed in the mixture to insure even on-ground distribution. Since smaller and heavier seeds will settle to the bottom of the mix it may be necessary to periodically shake the transportation containers to redistribute seeds.</p> <p style="padding-left: 40px;">4. Reseeding: Seed is to be applied as soon as the seed is available. Seeds must be spread as uniformly as possible over the entire rehabilitated area. Helicopter and rangeland seeding rates should be calibrated by test trials in accordance with spread ("seed throw") calculations prior to the initiation of operations. As operations are initiated, correct seeding rates must be verified on the ground from calculations made by assigned field observers.</p> <p>D. Purpose of Treatment Specifications: For rapid establishment of ground cover to prevent erosion on fire line.</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
Tractor/Dozer Boss GS 7 @ \$17.00 per hour x 10 hr/day x 50 days x 2 people x 1 year	\$17,000.00
Project Inspector GS 11 @ \$25.00 per hour x 10hr/day x 50 days x 1 people x 1 year	\$12,500.00

Helicopter Loading crew (inc. premium pay) GS-5 @ \$225 day x 3 people x 12 days x 1 Year	\$8,100.00
Helicopter Manager (inc. premium pay) GS-9 @ \$350 day x 14 days x 1 Year	\$4,900.00
TOTAL PERSONNEL SERVICE COST	\$42,500.00
► 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.	COST/ITEM
Helicopter @ \$700/hr x 8 hours/day x 12days x 1 year	\$67,200.00
Helicopter bucket rental: 2 buckets @ \$150/day per bucket x 12 days x 1 year	\$3,600.00
Ag/NAV GPS mapping system @ \$40/hour x 8 hours x 12 days x 1 year	\$3,840.00
Seed mixer @ \$200/day x 12 days x 1 year	\$2,400.00
Vehicle Rental Cost @ \$33.00/day x 50 days x 2 vehicles x 1 year	\$3,300.00
Vehicle Maintenance cost @ \$0.17/mile x 250/mile day x 50 days x 2 vehicles x1 year	\$4,250.00
Vehicle fuel cost @ \$40.00/day x 50 days x 2 vehicles x 1 year	\$4,000.00
Four Wheeler rental @ \$75.00/day x 50 days x 2 four wheelers	\$7,500.00
TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST	\$96,090.00
► MATERIALS AND SUPPLIES (Item @ Cost/Each X Quantity X #Fiscal Years = Cost/Item):	COST/ITEM
Dozer line native seed mixture cost: \$9.00 / lb x 2400 lbs x 1 year	\$21,600.00
Dozer line seed mixture cost: \$3.95 / lb x 11900 lbs x 1 year	\$47,005.00
Rangeland drill parts, Misc Equipment and Support Costs \$2000 x 1 Year	\$2,000.00
TOTAL MATERIALS AND SUPPLY COST	\$70,605.00
► TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):	COST/ITEM
Seed transport, staging and loading/operation support by District personnel:	
Flat bed trucks for seed movement: 50days @ \$ 125/day x 1 Year	\$6,250.00
Fuel for Support Vehicles \$40 / day x 50 days x 1 Year	\$2,000.00
Per diem @ \$85.00/day x 50 days x 2 personnel x 1 year	\$8,500.00
TOTAL TRAVEL COST	\$16,750.00
CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):	COST/ITEM
% .07 program administration	\$21,832.00
Seed storage facility (rental) @ \$150/wk x 12 weeks x 1 Year	\$1,800.00
Transport @ 2.55 per mile x 3600 miles x 6 transports x 1 year	\$55,080.00
D5 Dozer With Seeder \$1250 per day x 50 days/10hr days x 3 dozers x 1 year	\$187,500.00
Tractor 160hp 4WD \$750 per day x 30 days/10hr days x 3 tractors x 1 year	\$67,500.00
TOTAL CONTRACT COST	\$333,712.00

SPECIFICATION COST SUMMARY

FISCAL YEAR	UNIT	UNITS COST	# OF UNITS	COST	FUNDING SOURCE	METHOD
FY 2002	acres	\$497.92	1124	\$559,657.00	F	P/C
FY 2003						
FY 2004						

TOTAL	acres	\$497.92	1124	\$559,657.00	F	P/C
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FUNDING SOURCES:

F = Fire Suppression
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.	P, M
3. Estimate supported by cost guides from independent sources or other federal agencies	
4. Estimates based upon government wage rates and material cost.	
5. No cost estimate required - cost charged to Fire Suppression Account	F

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:
 See treatment map, Appendix III, Elko August Fire Complex BAER Plan

IV. TOTAL COST BY FIRE

FIRE NAME	UNITS TREATED	COST
Bailey	3.69 miles (17.89 acres)	\$8,907.71
Buffalo	42.66 miles (206.84 acres)	\$102,988.84
Coyote	8.47 miles (41.06 acres)	\$20,444.41
Dee Gold	2.0 miles (9.70 acres)	\$4,829.78
Dunphy	8.44 miles (40.92 acres)	\$20,374.70
Hot Lakes	56.10 miles (272.00 acres)	\$135,433.01
Mile Marker 367	1.0 mile (4.85 acres)	\$2,414.89
North Delano	26.75 mile (129.70 acres)	\$64,579.64
Ranch	15.89 mile (77.04 acres)	\$38,359.41
Sheep	29.26 miles (141.87 acres)	\$70,639.27
Stag	26.45 miles (128.23 acres)	\$63,847.70
Tabor Creek	11.13 miles (53.90 acres)	\$26,837.64
TOTAL COST	231.84 miles (1124 acres)	\$559,657.00

DOZER LINE SEED MIX LISTING

(seed cost estimated from 2000 seed purchases)

Dozer Line Seed Mix						

Siberian	5.0 lbs	80%	3.05		40.92	250	\$762.50
Nordan	5.0 lbs	80%	2.22			250	\$555.00
Total Dunphy						500	\$1,317.50

Dozer Line Seed Mix							
Seed Mix	Rate/ac lbs	Min % PLS	Cost/lb PLS	Cost/lb Bulk	Acres	Bulk lbs. Rounded	Total Cost
Hot Lakes							
Intermediate	5.0 lbs	80%	3.26		272.00	1700	\$5,542.00
Nordan	5.0 lbs	80%	2.22			1700	\$3,774.00
Total Hot Lakes						3400	\$9,316.00

Dozer Line Seed Mix							
Seed Mix	Rate/ac lbs	Min % PLS	Cost/lb PLS	Cost/lb Bulk	Acres	Bulk lbs. Rounded	Total Cost
Mile Marker 367							
Secar	10.0 lbs	80%	9.00		4.85	100	\$900.00
Total Mile Marker 367						100	\$900.00

Dozer Line Seed Mix							
Seed Mix	Rate/ac lbs	Min % PLS	Cost/lb PLS	Cost/lb Bulk	Acres	Bulk lbs. Rounded	Total Cost
North Delano							
Hycrest	10.0 lbs	80%	1.80		129.70	1600	\$2,880.00
Total North Delano						1600	\$2,880.00

Dozer Line Seed Mix							
Seed Mix	Rate/ac lbs	Min % PLS	Cost/lb PLS	Cost/lb Bulk	Acres	Bulk lbs. Rounded	Total Cost
Ranch							
Siberian	5.0 lbs	80%	3.05		77.04	500	\$1,525.00
Nordan	5.0 lbs	80%	2.22			500	\$1,110.00

Total Ranch			1000	\$2,635.00
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Dozer Line Seed Mix							
Seed Mix	Rate/ac lbs	Min % PLS	Cost/lb PLS	Cost/lb Bulk	Acres	Bulk lbs. Rounded	Total Cost
Sheep							
Intermediate	5.0 lbs	80%	3.26		141.87	900	\$2,934.00
Nordan	5.0 lbs	80%	2.22			900	\$1,998.00
Total Sheep						1800	\$4,932.00

Dozer Line Seed Mix							
Seed Mix	Rate/ac lbs	Min % PLS	Cost/lb PLS	Cost/lb Bulk	Acres	Bulk lbs. Rounded	Total Cost
Stag							
Secar	10.0 lbs	80%	9.00		128.24	1600	\$14,400.00
Total Stag						1600	\$14,400.00

Dozer Line Seed Mix							
Seed Mix	Rate/ac lbs	Min % PLS	Cost/lb PLS	Cost/lb Bulk	Acres	Bulk lbs. Rounded	Total Cost
Tabor Creek							
Secar	10.0 lbs	80%	9.00		53.96	700	\$6,300.00
Total Tabor Creek						700	\$6,300.00