

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

**PART F - SPECIFICATIONS**

<b>SPECIFICATION TITLE:</b>	<b>RESEED CRITICAL WILDLIFE WINTER RANGE &amp; SAGE GROUSE HABITAT (AERIAL OR BROADCAST) - 2001 Elko 14 Fire Complex</b>	<b>AGENCY:</b>	<b>BLM Elko F.O.</b>
<b>PART E LINE ITEM:</b>	<b>N-3a Ecological Stabilization - Planting/Seeding (BLM 98-148 III. E)</b>	<b>FISCAL YEAR(S) (list each year):</b>	<b>2001-2004</b>

**I. WORK TO BE DONE**

<b>Number and Describe Each Task:</b>	
<b>A. General Description:</b>	Aerially seed crucial big game winter range and sage grouse habitat to reestablish shrub, grass and forb species important for cover, nesting, and forage.
<b>B. Location (Suitable) Sites:</b>	Wildlife aerial seeding will be completed in designated areas for the _ <b>See Map Index, Treatment Section and Attached Map.</b>
<b>C. Design/Construction Specifications:</b>	Aerial seeding application will be completed with Office of Aircraft (OAS) carded helicopter and pilot. The wildlife seed mixes were selected by BLM, BAER, NDOW, and other local representatives, and were based on policy, regulations, and mandates. Seed mixtures 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 Analyst</i> will be accepted for determining the germination rate. Seed designated without a purity or germination rate shall be labeled to include month and year collected, and the name and address of the seed supplier.
<b>D. Purpose of Treatment Specifications:</b>	Reestablish shrub, grass and forb species in critical big game winter ranges and sage grouse habitat to provide cover, and nesting and foraging areas. By seeding these species, perennial vegetation can be reestablished to help restore range site dynamics and help outcompete exotic annual plant species that are prone to frequent fires.

**II. LABOR, MATERIALS AND OTHER COST:**

<b>PERSONNEL SERVICES: (Grade @ Cost/Hours X # Hours X # Fiscal Years = Cost/Item Do not include contract personnel costs here (see contractor services below).</b>	<b>COST/ITEM</b>
Project Inspector GS-11 @ \$25.00/hr x 10 hrs/day x 14 days x 1 Year	\$3,500.00
Seasonal Wildlife Biologist GS-7 @ \$17.00/hr x 10 hrs/day x 14 days x 1 years	\$2,380.00
GIS Specialist GS-11 @ 25.00/hr x 10 hrs/day x 10 days x 1 year	\$2,500.00
Air Support Personnel (Helitack seasonals or AD hires) @ \$1000/day X10 day X 1 Year	\$10,000.00
<b>TOTAL PERSONNEL SERVICE COST</b>	<b>\$18,380.00</b>
<b>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.</b>	<b>COST/ITEM</b>
Helicopter Seed Bucket Rental: 2 buckets @ \$500/day per bucket X 10 days X 1 Year	\$10,000.00
Vehicle Cost @ \$33.00 per day x 10 days x 2 vehicles x 1 year	\$660.00
Vehicle Cost @ .17 per mile x 250 miles/day x 10 days x 2 vehicle x 1 year	\$850.00
Vehicle Cost @ \$40 per day x 10 days x 2 vehicles x 1 year	\$800.00
<b>TOTAL EQUIPMENT PURCHASE, LEASE OR RENTAL COST</b>	<b>\$12,310.00</b>

<b>MATERIALS AND SUPPLIES: (Item @ Cost/Each X Quantity X # Fiscal Years = Cost/Item):</b>	<b>COST/ITEM</b>
Aerial Seed Mix Seed Costs @ \$12.70 (avg price)/ lb x 27,050 lbs (bulk) x 1 year	\$343,535.00
Bitterbrush tublings @ \$0.85 each x 80,000 tublings x 1 years	\$68,000.00
Bitterbrush seed Costs @ \$10.94/lb x 1800 lbs (bulk) x 1 year	\$19,692.00
<b>TOTAL MATERIALS AND SUPPLY COST</b>	<b>\$431,227.00</b>
<b>► TRAVEL COST (Personnel or Equipment @ Rate X Round Trips X #Fiscal Years = Cost/Item):</b>	<b>COST/ITEM</b>
Seed transport vehicle @ \$.50/mile x 250 miles per day x 10 day x 1 Year	\$1,250.00
Support Vehicle @ \$2.00/mile X 250 miles/day X 10 days X 1Year	\$5,000.00
Per Diem for pilot and mechanic @ \$168/day X 10 day X 1 Year	\$1,680.00
Fuel truck mileage @ \$1.00/mile X 250 miles/day X 10 day X 1 Year	\$2,500.00
<b>TOTAL TRAVEL COST</b>	<b>\$10,430.00</b>
<b>► CONTRACT COST (Labor or Equipment @ Cost/Hour X #Hours X #Fiscal Years = Cost/Item):</b>	<b>COST/ITEM</b>
Seed Storage Cost @ 300/wk x 26 weeks x 1 years	\$7,800.00
Seed mixing costs @ \$0.10/lb x 27,050 lbs x 1 year	\$2,705.00
Seed fertilizer coating @ \$ 0.30/lb x 27,050 lbs x 1 year	\$8,115.00
Contracted Aerial Application @ \$7.25/acre X 4679 acres X 1 Year	\$33,923.00
Dribbler application of bitterbrush seed with dozer @ 21.63/acre x 332 acres x 1 years	\$7,182.00
Contracted Hand Planting Bitterbrush Seedlings @ \$500/acre x 200 acres x 1 years	\$100,000.00
4% Contract administration and oversight to agency	\$6,389.00
<b>TOTAL CONTRACT COST</b>	<b>\$166,114.00</b>

**SPECIFICATION COST SUMMARY**

<b>FISCAL YEAR</b>	<b>UNIT</b>	<b>UNIT COST</b>	<b># OF UNITS</b>	<b>COST</b>	<b>FUNDING SOURCE</b>	<b>METHOD</b>
FY 1	acres aerial	\$88.58	4679 acres	\$414,468.00	ESR	C / P
FY 1	acres dribble	\$168.65	332 acres	\$55,993.00	ESR	C
FY 1	acres hand plant	\$840.00	200 acres	\$168,000.00	ESR	C
FY 2						
FY 3						
<b>TOTAL:</b>	<b>acres</b>	<b>\$122.52</b>	<b>5211 acres</b>	<b>\$638,461.00</b>	<b>ESR</b>	<b>C</b>

**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.	M, C
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, T
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: See Map Index, Treatment sections.
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**IV. TOTAL COST BY FIRE**

FIRE NAME	UNITS TREATED	TREATMENT METHOD	COST
Bishop	360 Acres/720 acre block	Aerial	\$31,888.97
Bob's Flat	21 Acres	Aerial	\$1,860.19
Buckhorn	200 Acre/400 acre block	Aerial	\$17,716.09
Double Mountain	680 Acres/3400 acre block	Aerial	\$60,234.72
Egbert	100 Acres	Hand plant	\$84,000.00
Maggie Creek	1600 Acres/3200 acre block	Aerial	\$141,728.75
Maggie Creek	162 acres	Aerial	\$14,350.04
Mud Springs	273 Acres/546 acre block	Aerial	\$24,182.47
Upper Clover	387 Acres/774 acre block	Aerial	\$34,280.64
West Bullion	185 Acres	Aerial	\$16,387.38
Winecup	811 Acres/1621 acre block	Aerial	\$71,838.75
Winecup	100 Acres	Hand plant	\$84,000.00
Winecup	332 Acres	Dribble seed	\$55,993.00
<b>TOTAL COST</b>	<b>5211 ACRES</b>		<b>\$638,461.00</b>

**COST ESTIMATE FOR SEED  
2001 Elko 14 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 mountain and basin big sagebrush which was based on the estimated cost at the 2000 seed buy.

**N-3a (BLM 98-148 III. E)  
Reseed Critical Wildlife Winter Range (Aerial)**

Aerial Seed Mixes							
Wildlife Seed Mix	Rate/ac lbs.	Min % PLS	Cost/lb. PLS	Cost/lb. Bulk	Acres	Bulk lbs. (rounded)	Total Cost
<b>Double Mountain (X162)</b>							
Wyoming big sagebrush	0.125 PLS (1.0 bulk lb/ac)	12%		15.12	680	700	\$ 10,584
.....	.....	.....	.....	.....	.....	.....	.....
Basin Big Sagebrush	0.125 PLS (1.1 bulk lbs/ac)	12%		12.00		750	\$9,000
.....	.....	.....	.....	.....	.....	.....	.....
Delar Small Burnet	.....	80%	3.50			1,000	\$2,800
.....	1.5 bulk lbs/ac.	.....	.....	.....	.....	.....	.....
Western Yarrow	.....	95%	7.19			100	\$ 683
.....	0.15 bulk lb/ac.	.....	.....	.....	.....	.....	.....
Ladak upland alfalfa	.....	88%	1.30			1,000	\$1,144
.....	1.5 bulk lbs/ac	.....	.....	.....	.....	.....	.....
<b>Total Double Mountain (X162)</b>					<b>680</b>	<b>3,550</b>	<b>\$24,211.00</b>
<b>Bob's Flat (X-201) - Per Nevada Division of Wildlife cooperative agreement to apply this seed</b>							
Wyoming big sagebrush	0.25 PLS (2..1 bulk lb/ac)	12%		15.12	21	50	\$ 756
.....	.....	.....	.....	.....	.....	.....	.....
Forage kochia	1.0 PLS (1.3 bulk lbs/ac)	75%		32.54		30	\$976
.....	.....	.....	.....	.....	.....	.....	.....
Delar Small Burnet	.....	80%	3.50			30	\$84
.....	1.5 bulk lbs/ac.	.....	.....	.....	.....	.....	.....
Western Yarrow	.....	95%	7.19			3	\$22
.....	0.15 bulk lb/ac.	.....	.....	.....	.....	.....	.....
Ladak upland alfalfa	.....	88%	1.30			30	\$36
.....	1.5 bulk lbs/ac	.....	.....	.....	.....	.....	.....
Secar Snake River wheatgrass	.....	80%	10.66			50	\$426
.....	2.5 bulk lbs/ac	.....	.....	.....	.....	.....	.....
<b>Total Bob's Flat (X-201)</b>					<b>21</b>	<b>193</b>	<b>\$2,300</b>

Aerial Seed Mixes							
Wildlife Seed Mix	Rate/ac lbs.	Min % PLS	Cost/lb. PLS	Cost/lb. Bulk	Acres	Bulk lbs. (rounded)	Total Cost
<b>Maggie Creek(X170)</b>							
Forage kochia	1.0 PLS (1.3 bulk lbs/ac)	75%		32.54	162	250	\$8135
<b>Aerial Seed Mixes</b>							
Wildlife Seed Mix	Rate/ac lbs.	Min % PLS	Cost/lb. PLS	Cost/lb. Bulk	Acres	Bulk lbs. (rounded)	Total Cost
<b>Maggie Creek (X170)</b>							
Wyoming big sagebrush	0.125 PLS (1.04 bulk lbs/ac)	12%		15.12	1,600	1,700	\$ 25,704
Basin Big Sagebrush	0.125 PLS (1.04 bulk lbs/ac)	12%		12.00		1,700	\$20,400
Western Yarrow	0.15 bulk lb/ac.	95%	7.19			250	\$1,639
Forage kochia	1.0 PLS (1.3 bulk lbs/ac)	75%		32.54		2,100	\$68,334
<b>Total Maggie Creek (X170)</b>					<b>1,600</b>	<b>5,750</b>	<b>\$124212</b>
<b>Upper Clover (X181)</b>							
Wyoming big sagebrush	0.125 PLS (1.04 bulk lb/ac)	12%		15.12	387	400	\$ 6,048
Basin Big Sagebrush	0.125 PLS (1.04 bulk lbs/ac)	12%		12.00		400	\$4830
Forage kochia	1.0 PLS (1.3 bulk lbs/ac)	75%		32.54		500	\$16270
Western Yarrow	0.15 bulk lb/ac.	95%	7.19			60	\$431
<b>Total Upper Clover (X-181)</b>					<b>387</b>	<b>2,400</b>	<b>\$27579</b>

Aerial Seed Mixes							
Wildlife Seed Mix	Rate/ac lbs.	Min % PLS	Cost/lb. PLS	Cost/lb. Bulk	Acres	Bulk lbs. (rounded)	Total Cost
<b>West Bullion (X-185)</b>					185		
Nezpar Indian Ricegrass	2.5 bulk lbs/ac	80%	11.18			450	\$4,025
..... Critana Thickspike wheatgrass	2.5 bulk lbs/ac	80%	7.55			450	\$2,718
..... Secar Snake River wheatgrass	2.5 bulk lbs/ac	80%	10.66			450	\$3,838
..... Delar Small Burnet	1.5 bulk lbs/ac.	80%	3.50			300	\$840
..... Western Yarrow	0.15 bulk lb/ac.	95%	7.19			30	\$204
..... Ladak upland alfalfa	1.5 bulk lbs/ac	88%	1.30			300	\$343
..... Forage kochia	0.60 PLS (0.8 bulk lbs/ac)			32.54		150	\$4,881
<b>TOTAL West Bullion (X-185)</b>					185	2,130	\$16,849

Aerial Seed Mixes							
Wildlife Seed Mix	Rate/ac lbs.	Min % PLS	Cost/lb. PLS	Cost/lb. Bulk	Acres	Bulk lbs. (rounded)	Total Cost
<b>Mud Springs (X228)</b>							
Wyoming big sagebrush	0.25 PLS (2.1 bulk lbs/ac)	12%		15.12	273	600	\$ 9,072
..... Western Yarrow	0.2 bulk lb/ac.	95%	7.19			50	\$342
<b>Total Mud Springs (X228)</b>					273	650	\$9,414

Aerial Seed Mixes							
Wildlife Seed Mix	Rate/ac lbs.	Min % PLS	Cost/lb. PLS	Cost/lb. Bulk	Acres	Bulk lbs. (rounded)	Total Cost
<b>Buckhorn (X173)</b>							
Wyoming big sagebrush	0.25 PLS (2.1 bulk lbs/ac)	12%		15.12	200	400	\$ 6,048
..... Western Yarrow	0.2 bulk lb/ac.	95%	7.19			50	\$342
..... Forage kochia	0.75 PLS (1.0 bulk lb/ac)	75%		32.54		200	\$6,508
<b>Total Buckhorn (X173)</b>					200	650	\$12,898

Aerial Seed Mixes							
Wildlife Seed Mix	Rate/ac lbs.	Min % PLS	Cost/lb. PLS	Cost/lb. Bulk	Acres	Bulk lbs. (rounded)	Total Cost
Bishop ( )							
Wyoming big sagebrush	0.25 PLS (2.1 bulk lbs/ac)	12%		15.12	360	800	\$ 12096
Total Bishop ( )					360	800	\$ 12096

Aerial/Dribble Seed Mixes							
Wildlife Seed Mix	Rate/ac lbs.	Min % PLS	Cost/lb. PLS	Cost/lb. Bulk	Acres	Bulk lbs. (rounded)	Total Cost
Winecup ( )							
Basin Big Sage	0.25 PLS (2.1 bulk lbs/ac)	12%		12.00	811	1700	\$ 20,400
Western Yarrow	0.15 bulk lb/ac.	95%	7.19			150	\$ 1,078
Critana Thickspike wheatgrass	5.0 bulk lbs/ac	80%	7.55			4100	\$30956
Secar Snake River wheatgrass	2.5 bulk lbs/ac	80%	10.66			2050	\$ 21,853
Delar Small Burnet	1.5 bulk lbs/ac	80%	3.50			1200	\$ 3,360
Bitterbrush Seedlings	40,000 tublings			0.85			\$ 34,000
Bitterbrush seed	3.33 bulk lbs/ac			\$10.94	432	1450	\$ 15,863
Total Winecup ( )					1243	10,650	127,514

Aerial/Dribble Seed Mixes							
Wildlife Seed Mix	Rate/ac lbs.	Min % PLS	Cost/lb. PLS	Cost/lb. Bulk	Acres	Bulk lbs. (rounded)	Total Cost
<b>Snow Egbert ( )</b>							
Bitterbrush Seedlings .....	40,000 tublings .....			0.85 .....	100 .....		\$ 34,000
<b>Total Snow Egbert ( )</b>					<b>100</b>		<b>\$34,000</b>