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Rio Blanco Oil Shale Company

REVEGETATION PROGRAM 1978 ANNUAL REPORT March 9, 1979

VOLUME 3 OF 3-APPENDIX 'B'

Gulf Oil Corporation / Standard Oil Company (Indiana)
A General Partnership

9725 East Hampden Avenue, Denver, Colorado 80231

U.S. DEPARTMENT OF INTERIOR
OIL SHALE
ENVIRONMENTAL ADVISORY PANEL
Denver Federal Center

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APPENDIX B. DATA AND ASSOCIATED ANALYSIS OF VARIANCE FOR THE
REVEGETATION EXPERIMENTS INITIATED IN 1976 LOCATION
R₃

U. S. DEPARTMENT OF INTERIOR
OIL SHALE
ENVIRONMENTAL ADVISORY PANEL
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LIST OF COMPUTER CODES FOR THE PLANT SPECIES INCLUDED IN THE ANALYSIS OF VARIANCE

<u>Computer Code</u>	<u>Scientific Name</u>
AGR TRI	<u>Agropyron trichophorum</u>
AGR SMI	<u>Agropyron smithii</u>
AGR RIP	<u>Agropyron riparium</u>
AGR SPP	<u>Agropyron spp.</u>
ORY HYM	<u>Oryzopsis hymenoides</u>
STI VIR	<u>Stipa viridula</u>
BRO INE	<u>Bromus inermis</u>
BRO TEC	<u>Bromus tectorum</u>
BRO SP	<u>Bromus sp.</u>
SIT HYS	<u>Sitanion hystrix</u>
AGR CRI	<u>Agropyron cristatum</u>
UNK GRA	Unknown grass
PHL PRA	<u>Phleum pratense</u>
POA SP	<u>Poa sp.</u>
KOE SP	<u>Koeleria sp.</u>
LIN LEW	<u>Linum lewisii</u>
AST CIC	<u>Astragalus cicer</u>
HED UTA	<u>Hedysarum utahensis</u>
MEL OFF	<u>Melilotus officinalis</u>
PEN STR	<u>Penstemon strictus</u>
SPH COC	<u>Sphaeralcea coccinea</u>
SAL KAL	<u>Salsola kali</u>
CHE SP	<u>Chenopodium sp.</u>
SEN MUL	<u>Senecio multilobatus</u>
PHY FLO	<u>Physaria floribunda</u>
CHA DOU	<u>Chaenactis douglasii</u>
KOC SCO	<u>Kochia scoparia</u>
TAR OFF	<u>Taraxacum officinale</u>
AST SP	<u>Astragalus sp.</u>
AST TEG	<u>Astragalus tegetarius</u>
CRY SER	<u>Cryptantha sericea</u>
HAL GLO	<u>Halogeton glomeratus</u>
HAP NUT	<u>Haplopappus nuttali</u>
UNK SPP	Unknown forbs
ART TRI	<u>Artemisia tridentata</u>
CHR SPP	<u>Chrysothamnus spp.</u>
PUR TRI	<u>Purshia tridentata</u>
CER MON	<u>Cercocarpus montanus</u>
ATR CAN	<u>Atriplex canescens</u>
EUR LAN	<u>Eurotia lanata</u>
CHR VIS	<u>Chrysothamnus viscidiflorus</u>
KOC PRO	<u>Kochia prostrata</u>
ATR BON	<u>Atriplex bonnevillensis</u>
CAM MON	<u>Camphorosma monospeliaca</u>
ATR GAR	<u>Atriplex gardneri</u>
CHR NAU	<u>Chrysothamnus nauseosus</u>
GRASS P	Grasses - Planted
GRASS I	Grasses - Invaded

LIST OF COMPUTER CODES (Continued)

<u>Computer Code</u>	<u>Scientific Name</u>
FORBS P	Forbs - Planted
FORBS I	Forbs - Invaded
Shrubs P	Shrubs - Planted
TOTAL	Total plant species
PLANTED	Planted species
INVADED	Invaded species

NOTE: Data is rounded off to whole numbers and a rounding error may be reflected in the total.

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES OCCURRING ON THE RBOSC
REVEGETATION PLOT R₃ DURING SEPTEMBER, 1978

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
OCCURRING ON THE RBOSP REVEGETATION PLOTS DURING SEPTEMBER, 1978

SPECIES	SUBPLOT						TREATMENT PLOT AVERAGE
	1	2	3	4	5	6	
LOCATION - R3 SUBSTRATE 1 NO PROCESS SHALE TREATMENT -- MULCH - NONE SEDED LOW							
GRASSES - PLANTED							
AGROPYRON TRICHOPOHORUM	5.0	0.0	2.0	2.0	3.0	4.0	2.7
AGROPYRON SPP.	5.0	7.0	3.0	6.0	4.0	13.0	6.3
DKYZCPSIS HYMENIOTOPIS	1.0	1.0	2.0	1.0	0.0	1.0	1.0
STIPA VIRIDULA	0.0	1.0	0.0	0.0	0.0	0.0	0.2
PROMLS INERMIS	1.0	5.0	2.0	1.0	2.0	3.0	2.3
SUBTOTAL							12.5
FORPS - PLANTED							
LINUM LEWISII	0.0	1.0	0.0	0.0	0.0	0.0	0.2
ASTRAGALUS CICER	1.0	0.0	1.0	2.0	0.0	0.0	0.7
MELILOTUS OFFICINALIS	6.0	4.0	8.0	2.0	4.0	0.0	4.0
PENSTEMUN STRICTUS	1.0	0.0	1.0	0.0	0.0	0.0	0.3
SUBTOTAL							5.2
FORPS - INVADDED							
SALSOLA KALI	0.0	0.0	0.1	2.0	2.0	0.0	0.7
PHYSARIA FLORIBUNDA	0.0	0.0	2.0	0.0	0.0	0.0	0.3
SUBTOTAL							1.0
SHRUBS - PLANTED							
KUCHIA PRUSTRATA	4.0	0.0	0.0	0.0	0.0	0.0	0.7
ATRIPLEX BONNEVILLENSIS	0.0	4.0	0.0	0.0	0.0	0.0	0.7
ATRIPLEX CANESCENS	2.0	2.0	3.0	3.0	0.0	1.0	1.8
EUROTTIA LANATA	2.0	3.0	3.0	6.0	1.0	3.0	3.0
SUBTOTAL							6.2
PLANTED							
INVADDED							23.8
GRAND TOTAL							1.0
							24.6

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
 OCCURRING ON THE RBOSP REVEGETATION PLOTS DURING SEPTEMBER, 1978

SPECIES	TREATMENT PLOT AVERAGE					
	1	2	3	4	5	6
LOCATION - R3 SUBSTRATE 2 PROCESS SHALE TREATMENT -- MULCH - NONE SEEDED LOW						
GRASSES - PLANTED						
AGROPYRON TRICHOPOHORUM	3.0	0.0	3.0	0.0	2.0	0.0
AGROPYRON SPP.	6.0	7.0	3.0	7.0	10.0	3.0
ORYZOPSIS HYMENOIDES	2.0	1.0	0.0	6.0	4.0	1.0
STIPA VIRIDULA	0.0	0.0	1.0	0.0	0.0	0.0
PROMUS INERMIS	2.0	3.0	0.0	0.0	2.0	5.0
SUBTOTAL						11.8
GRASSES - INVADED						
BROMUS TECTORUM	0.0	0.0	0.0	0.0	0.0	1.0
AGROPYRON CRISTATUM	3.0	0.0	2.0	0.0	0.0	0.0
SUBTOTAL						1.0
FORBS - PLANTED						
ASTRAGALUS CICER	0.0	0.0	1.0	1.0	0.0	0.0
MELILLOTUS OFFICINALIS	2.0	12.0	6.0	2.0	2.0	0.0
PENSTEMON STRICTUS	0.0	0.0	0.0	0.0	0.0	1.0
SUBTOTAL						4.5
FORBS - INVADED						
ASTRAGALUS TEGETARIUS	0.0	0.0	3.0	0.0	0.0	0.0
SALSOLA KALI	0.1	0.0	0.0	7.0	1.0	1.0
PHYSARIA FLORIBUNDA	0.1	0.0	0.0	0.0	0.0	0.0
UNKMCHN FORB	0.0	2.0	0.0	0.0	0.0	0.0
SUBTOTAL						2.4
SHRUBS - PLANTED						
PURSHIA TRIDENTATA	0.0	0.1	0.0	0.0	0.0	0.0
ATRIFLX CANFSCENS	0.0	7.0	2.0	0.0	0.0	10.0
EURUTIA LANATA	9.0	3.0	4.0	0.0	7.0	0.0
SUBTOTAL						7.0
PLANTED						
INVADED						23.3
GRAND TOTAL						36.7

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
OCCURRING ON THE RBOSP REVEGETATION PLOTS DURING SEPTEMBER, 1978

LOCATION - R3 TREATMENT -- MULCH - NONE	SUBSTRATE J NO PROCESS SHALE		TREATMENT PLOT AVERAGE					
	1	2	3	4	5	6		
SPECIES								
GRASSES - PLANTEO								
AGROPYRON TRICHOPOURUM	2.0	4.0	6.0	1.0	4.0	0.0	2.8	
AGROPYRON SPP.	14.0	17.0	2.0	8.0	6.0	2.0	8.2	
ORYZOPSIS HYMENDIOES	0.0	1.0	0.0	0.0	0.0	2.0	0.5	
STIPA VIRIDULA	0.0	0.0	0.0	0.0	1.0	0.0	0.2	
BROMUS INERNIS	3.0	3.0	1.0	0.0	3.0	1.0	1.8	
SUBTOTAL							13.5	
GRASSES - INVAOEO								
SITANION HYSTRIX	0.0	0.0	0.0	0.0	0.0	2.0	0.3	
SUBTOTAL							0.3	
FORBS - PLANTEO								
LINUM LEWISII	0.0	0.0	0.0	0.0	1.0	1.0	0.3	
ASTRAGALUS CICER	1.0	1.0	0.0	3.0	1.0	2.0	1.3	
MELILOTUS OFFICINALIS	4.0	3.0	8.0	13.0	8.0	7.0	7.2	
SUBTOTAL							8.8	
FORBS - INVAOEO								
SALSCLA KALI	0.0	0.0	1.0	0.0	0.0	1.0	0.3	
PHYSARIA FLORIFUNOA	0.0	0.0	0.0	1.0	0.1	0.0	0.2	
CRYPTANTHA SERICEA	1.0	0.0	0.0	0.0	0.0	0.0	0.2	
SUBTOTAL							0.7	
SHRUBS - PLANTEO								
ARTEMISIA TRIOENTATA	0.0	1.0	0.0	0.0	0.0	0.0	0.2	
ATRIPLEX GARNERI	1.0	0.0	0.0	0.0	0.0	0.0	0.2	
PURSHIA TRIOENTATA	1.0	0.0	0.0	0.0	1.0	2.0	0.7	
CERCOCARPUS MONTANUS	0.0	0.0	0.0	0.0	0.1	0.0	0.0	
ATRIPLEX CANESCENS	3.0	1.0	2.0	0.0	5.0	0.0	1.8	
EUROTIA LANATA	6.0	3.0	4.0	8.0	3.0	1.0	4.2	
SUBTOTAL							7.0	
PLANTEO								
INVAOEO							29.3	
GRAND TOTAL							1.0	
							30.4	

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
 OCCURRING ON THE R60SP REVEGETATION PLOTS DURING SEPTEMBER, 1978

LOCATION - R3 TREATMENT -- MULCH - NONE	SUBSTRATE 2		PROCESS SHALE SEDED MEDIUM						TREATMENT PLOT AVERAGE
	1	2	3	4	5	6			
SPECIES									
GRASSES - PLANTED									
AGROPYRON TRICHOPOHORUM	3.0	4.0	0.0	0.0	1.0	3.0	1.8		
AGROPYRON SPP.	11.0	10.0	6.0	7.0	5.0	6.0	7.5		
CRYZCPSIS HYMENOIDES	3.0	2.0	8.0	4.0	7.0	15.0	6.5		
STIPA VIRIDULA	0.0	0.0	0.0	2.0	2.0	0.0	0.7		
BROMUS INERMIS	4.0	4.0	0.0	3.0	6.0	8.0	4.2		
SUBTOTAL							20.7		
FORBS - PLANTED									
LINUM LEWISII	0.0	1.0	0.0	1.0	1.0	1.0	0.7		
ASTRAGALUS CICER	0.1	0.0	1.0	1.0	2.0	0.0	0.7		
MELILOTUS OFFICINALIS	2.0	2.0	4.0	3.0	3.0	2.0	2.7		
SUBTOTAL							4.0		
FORBS - INVADDED									
ASTRAGALUS TEGETARIUS	0.0	1.0	0.0	1.0	0.0	0.0	0.3		
SALSOLA KALI	0.0	0.0	3.0	0.0	0.0	0.0	0.5		
SUBTOTAL							0.8		
SHRUBS - PLANTED									
CAMPORUSMA MONSPELJACA	0.0	0.0	3.0	0.0	0.0	0.0	0.5		
CHRYSOTHAMNUS SPP.	0.0	1.0	0.0	0.0	0.0	0.0	0.2		
PURSHIA TRIDENTATA	0.1	0.0	0.0	0.0	0.0	0.0	0.0		
ATRIPLEX CANESCENS	2.0	0.0	0.0	0.0	2.0	8.0	2.0		
EUROTTIA LANATA	5.0	7.0	0.0	4.0	6.0	2.0	4.0		
SUBTOTAL							6.7		
PLANTED								31.4	
INVADDED								0.8	
GRAND TOTAL								32.2	

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
OCCURRING ON THE RBOSP REVEGETATION PLOTS DURING SEPTEMBER, 1978

SPECIES	SUBPLOT						TREATMENT PLOT AVERAGE
	1	2	3	4	5	6	
LOCATION - R3 SUBSTRATE 1 NO PROCESS SHALE							
TREATMENT -- MULCH - NONE SEEDED HIGH							
GRASSES - PLANTED							
AGROPYRON TRICHOPOHORUM	3.0	7.0	4.0	4.0	0.1	2.0	3.3
AGROPYRON SPP.	5.0	8.0	6.0	9.0	5.0	6.0	6.5
ORYZOPSIS HYMENOIDES	5.0	4.0	5.0	3.0	2.0	2.0	3.5
STIPA VIRIDULA	0.0	0.0	0.0	0.1	0.0	0.0	0.0
BROMUS INERMIS	7.0	2.0	7.0	4.0	2.0	2.0	4.0
SUBTOTAL							17.4
GRASSES - INVADED							
BROMUS TECTORUM	0.0	0.0	0.0	0.0	0.0	2.0	0.3
SUBTOTAL							0.3
FORBS - PLANTED							
LINUM LEWISII	0.0	1.0	0.0	0.0	1.0	2.0	0.7
ASTRAGALUS CICER	0.0	0.1	0.0	1.0	0.1	0.1	0.2
MELILOTUS OFFICINALIS	2.0	3.0	2.0	1.0	0.0	0.0	1.3
PENSTEMON STRICTUS	0.0	0.0	0.0	0.1	0.0	0.0	0.0
SUBTOTAL							2.2
FORBS - INVADED							
SALSCLA KALI	0.0	0.0	0.0	1.0	0.1	0.0	0.2
SUBTOTAL							0.2
SHRUBS - PLANTED							
PURSHIA TRIOENTATA	0.0	0.0	0.1	0.1	0.0	0.0	0.0
ATRIPLEX CANESCENS	2.0	3.0	3.0	3.0	2.0	4.0	2.8
EUROTTIA LANATA	4.0	5.0	8.0	7.0	8.0	8.0	6.7
SUBTOTAL							9.5
PLANTED							
INVADED							
GRAND TOTAL							29.1
							0.5
							29.6

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
OCCURRING ON THE RBOSP REVEGETATION PLOTS DURING SEPTEMBER, 1978

LOCATION - R3 TREATMENT -- MULCH - NONE	SUBSTRATE 2 PROCESS SHALE SEDED HIGH	SUBPLOT				TREATMENT PLOT AVERAGE
SPECIES	1	2	3	4	5	6
GRASSES - PLANTED						
AGROFYRON TRICHOPOHRUM	2.0	1.0	0.0	2.0	3.0	4.0
AGROFYRON SPP.	5.0	4.0	10.0	10.0	10.0	6.0
ORYZOPSIS HYMENOIDES	5.0	6.0	7.0	5.0	6.0	8.0
BROMUS INERMIS	4.0	2.0	5.0	6.0	4.0	4.0
SUBTOTAL						19.8
FORBS - PLANTED						
LINUM LEWISII	2.0	0.0	0.0	0.0	0.0	0.0
ASTRAGALUS CICER	1.0	0.1	0.0	0.0	0.0	0.0
MELILOTUS OFFICINALIS	1.0	0.1	1.0	0.0	0.0	0.1
SUBTOTAL						0.3
FORBS - INVADDED						
ASTRAGALUS TEGETARIUS	0.0	0.0	0.0	1.0	0.0	0.0
SALSOLA KALI	0.0	0.0	0.1	0.0	0.0	0.0
SUBTOTAL						0.2
SHRUBS - PLANTED						
PURSHIA TRIDENTATA	0.1	0.0	0.1	0.1	0.0	1.0
ATRIPLEX CANESCENS	5.0	3.0	2.0	1.0	2.0	2.0
EUROTTIA LANATA	4.0	6.0	8.0	5.0	4.0	5.0
SUBTOTAL						8.0
PLANTED						
INVADDED						28.8
GRAND TOTAL						0.2
						28.9

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
OCCURRING ON THE RBOESP REVEGETATION PLOTS DURING SEPTEMBER, 1978

LOCATION - R3 SUBSTRATE 1 NO PROCESS SHALE
TREATMENT -- MULCH - HYDRON SEEDED LOW

SPECIES	SUBPLOT						TREATMENT PLOT AVERAGE
	1	2	3	4	5	6	
GRASSES - PLANTED							
AGROPYRON TRICHOPOPHORUM	1.0	2.0	3.0	0.0	1.0	5.0	2.0
AGROPYRON SPP.	5.0	0.0	0.0	2.0	3.0	2.0	2.0
ORYZOPSIS HYMENOIDES	1.0	0.0	4.0	1.0	0.0	0.0	1.0
STIPA VIRIDULA	0.0	2.0	3.0	1.0	1.0	3.0	1.7
BROMUS INERMIS	1.0	3.0	0.1	3.0	0.0	1.0	1.3
SUBTOTAL							8.0
GRASSES - INVADDED							
BROMUS TECTORUM	0.0	1.0	0.0	0.0	0.0	0.0	0.2
AGROPYRON CRISTATUM	0.0	0.0	0.0	2.0	0.0	1.0	0.5
SUBTOTAL							0.7
FORBS - PLANTED							
ASTRAGALUS CICER	0.1	1.0	0.0	0.0	0.0	3.0	0.7
MELILYTUS OFFICINALIS	6.0	6.0	1.0	5.0	5.0	2.0	4.2
SUBTOTAL							4.8
FORBS - INVADDED							
SALSCLA KALI	0.0	1.0	4.0	1.0	2.0	1.0	1.5
PHYSARIA FLORIBUNDA	0.1	0.0	0.0	0.0	0.0	0.0	0.0
CRYPTANTHA SERICEA	0.0	0.0	0.0	0.0	0.0	1.0	0.2
SUBTOTAL							1.7
SHRUBS - PLANTED							
ATRIPLEX BONNEVILLENIS	0.0	0.0	6.0	0.0	0.0	0.0	1.0
CHRYSOTHAMNUS SPP.	0.0	0.0	0.0	0.0	0.0	1.0	0.2
PURSHIA TRIOENTATA	1.0	0.0	0.0	0.0	1.0	0.0	0.3
ATRIPLEX CANESCENS	2.0	6.0	0.0	0.0	5.0	0.0	2.2
SUBTOTAL							3.7
PLANTED							16.5
INVADDED							2.3
GRAND TOTAL							18.9

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
OCCURRING ON THE RBDSP REVEGETATION PLOTS DURING SEPTEMBER, 1978

LOCATION - R3 TREATMENT --- MULCH - HYORD	SUBSTRATE 2 PROCESS SHALE SEEDED LOW	SUBPLOT				TREATMENT PLOT AVERAGE
SPECIES	1	2	3	4	5	6
GRASSES - PLANTEO						
AGROPYRON TRICHOPOHORUM	6.0	3.0	3.0	4.0	2.0	2.0
AGROPYRON SPP.	7.0	4.0	5.0	8.0	4.0	6.0
ORYZOPSIS HYMENOIDES	2.0	3.0	3.0	1.0	2.0	1.0
STIPA VIRIDULA	2.0	2.0	0.0	1.0	0.0	1.0
BROMUS INERMIS	2.0	3.0	1.0	3.0	2.0	1.0
SUBTOTAL						14.0
FORBS - PLANTEO						
ASTRAGALUS CICER	1.0	2.0	1.0	1.0	0.0	0.0
MELILOTUS OFFICINALIS	1.0	2.0	4.0	2.0	2.0	5.0
PENSTEMUM STRICTUS	0.0	1.0	0.0	0.0	0.0	0.0
SUBTOTAL						3.7
FORBS - INVADEO						
SALSCLA KALI	3.0	0.0	1.0	0.0	2.0	0.0
PHYSARIA FLORIBUNOA	0.0	0.0	0.0	0.0	0.1	0.0
UNKNOCN FORB	0.0	0.0	0.0	0.0	0.0	1.0
SUBTOTAL						1.2
SHRUBS - PLANTEO						
ARTEMISIA TRIOENTATA	0.0	0.0	3.0	0.0	0.0	0.0
KOCHIA PROSTRATA	0.0	0.0	0.0	6.0	0.0	0.0
CHRYSOTHAMNUS SPP.	0.0	0.0	0.0	0.0	0.0	2.0
ATRIPLEX CANESCENS	0.0	0.0	0.0	0.0	0.0	0.0
EUROTTIA LANATA	0.0	5.0	4.0	0.0	2.0	8.0
SUBTOTAL						5.3
PLANTED						23.0
INVADEO						1.2
GRAND TOTAL						24.2

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
OCCURRING ON THE RBOSP REVEGETATION PLOTS DURING SEPTEMBER, 1978

SPECIES	SUBPLOT						TREATMENT PLOT AVERAGE
	1	2	3	4	5	6	
LOCATION - R3 SUBSTRATE 1 NO PROCESS SHALE							
TREATMENT -- MULCH - HYDRO SEEDED MEDIUM							
GRASSES - PLANTED							
AGROPYRON TRICHOPOHORUM	6.0	2.0	3.0	0.0	1.0	0.0	2.0
AGROPYRON SPP.	10.0	4.0	5.0	5.0	7.0	3.0	5.7
ORYZOPSIS HYMENOIDES	1.0	1.0	1.0	1.0	1.0	1.0	1.0
STIPA VIRIOULA	0.0	0.0	0.1	1.0	0.0	0.0	0.2
BROMUS INERMIS	6.0	2.0	2.0	2.0	0.0	1.0	2.2
SUBTOTAL							11.0
FORBS - PLANTED							
LINUM LEWISII	0.0	1.0	0.0	1.0	0.0	0.0	0.3
ASTRAGALUS CICER	1.0	1.0	2.0	2.0	0.0	0.0	1.0
MELILOTUS OFFICINALIS	8.0	17.0	8.0	14.0	12.0	10.0	11.5
PENSTEMON STRICTUS	0.0	0.0	0.0	0.0	0.0	1.0	0.2
SUBTOTAL							13.0
FORBS - INVADDED							
ASTRAGALUS TEGETARIUS	0.0	0.0	3.0	0.0	0.0	0.0	0.5
SALSOLA KALI	0.0	0.1	0.0	0.0	1.0	0.0	0.2
CRYPTANTHA SERICEA	0.0	0.0	0.0	1.0	0.0	0.0	0.2
SUBTOTAL							0.8
SHRUBS - PLANTED							
KOCHIA PROSTRATA	0.0	0.0	0.0	0.0	0.0	3.0	0.5
CAMPOROSMA MONSPEIACA	0.0	0.0	0.0	0.0	1.0	0.0	0.2
PURSHIA TRIOENTATA	0.0	1.0	2.0	0.1	0.0	0.1	0.5
CERCCARPUS MONTANUS	0.0	0.0	0.0	0.1	0.1	0.0	0.0
ATRIPLEX CANESCENS	1.0	0.0	5.0	2.0	0.0	0.0	1.3
EUROTIA LANATA	6.0	6.0	5.0	7.0	14.0	6.0	7.3
SUBTOTAL							9.9
PLANTED							33.9
INVADDED							0.8
GRAND TOTAL							34.8

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
 OCCURRING ON THE RBOSP REVEGETATION PLOTS DURING SEPTEMBER, 1978

LOCATION - R3 TREATMENT -- MULCH - HYDRO SEEDING MEDIUM	SUBSTRATE 2 PROCESS SHALE		TREATMENT PLOT AVERAGE					
SPECIES	1	2	3	4	5	6		
GRASSES - PLANTED								
AGROPYRON TRICHOPOHORUM	2.0	3.0	0.0	6.0	3.0	3.0	2.8	
AGROPYRON SPP.	7.0	10.0	4.0	14.0	7.0	10.0	8.7	
ORYZOPSIS HYMENOIDES	3.0	2.0	1.0	1.0	3.0	4.0	2.3	
BROMUS INERHIS	4.0	4.0	8.0	5.0	3.0	3.0	4.5	
SUBTOTAL							18.3	
FORBS - PLANTED								
LINUM LEWISII	1.0	0.0	0.0	0.0	0.0	1.0	0.3	
ASTRAGALUS CICER	1.0	0.0	1.0	2.0	0.1	1.0	0.8	
MELILOTUS OFFICINALIS	3.0	3.0	4.0	5.0	6.0	4.0	4.2	
SUBTOTAL							5.3	
FORBS - INVADDED								
ASTRAGALUS TEGETARIUS	0.0	0.0	0.0	0.0	0.0	1.0	0.2	
SALSCLA KALI	0.0	0.0	0.1	0.0	0.0	0.0	0.0	
SUBTOTAL							0.2	
SHRUBS - PLANTED								
ATRIPLEX GARDNERI	0.0	0.0	0.0	0.0	0.1	0.0	0.0	
ATRIPLEX CANESCENS	4.0	1.0	3.0	0.0	0.0	4.0	2.0	
EURUTIA LANATA	7.0	0.0	5.0	2.0	4.0	3.0	3.5	
SUBTOTAL							5.5	
PLANTED							29.2	
INVADDED							0.2	
GRAND TOTAL							29.4	

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
OCCURRING ON THE REOSP REVEGETATION PLOTS DURING SEPTEMBER, 1978

SPECIES	SUBPLOT						TREATMENT PLOT AVERAGE
	1	2	3	4	5	6	
GRASSES - PLANTED							
AGROPYRON TRICHOPHORUM	2.0	2.0	2.0	4.0	2.0	4.0	2.7
AGROPYRON SPP.	7.0	5.0	8.0	16.0	14.0	10.0	10.0
ORYZOPSIS HYMENIOIDES	1.0	2.0	2.0	1.0	3.0	1.0	1.7
STIPA VIRIDULA	0.0	0.0	0.0	0.0	0.1	0.0	0.0
BROMUS INERMIS	2.0	5.0	3.0	4.0	6.0	6.0	4.3
SUBTOTAL							18.7
FORBS - PLANTED							
ASTRAGALUS CICER	0.1	0.0	0.0	0.0	2.0	1.0	0.5
MELILOTUS OFFICINALIS	4.0	3.0	2.0	4.0	1.0	6.0	3.3
SUBTOTAL							3.8
FORBS - INVADDED							
ASTRAGALUS TEGETARIUS	0.0	2.0	1.0	0.0	0.0	0.0	0.5
SALSCLA KALI	1.0	0.0	0.0	0.0	0.0	0.0	0.2
PHYSARIA FLORIBUNDA	0.0	0.0	1.0	0.0	0.0	1.0	0.3
SUBTOTAL							1.0
SHRUBS - PLANTED							
PURSHIA TRIDENTATA	2.0	1.0	1.0	1.0	0.0	0.0	0.8
CERCCARPUS MONTANUS	0.1	0.0	0.0	0.0	0.1	0.0	0.0
ATRIPLEX CANESCENS	5.0	2.0	5.0	3.0	4.0	2.0	3.5
EUROTTIA LANATA	6.0	5.0	5.0	5.0	7.0	12.0	6.7
SUBTOTAL							11.0
PLANTED							
INVADDED							33.6
GRAND TOTAL							1.0
							34.6

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
 OCCURRING ON THE RBOSP REVEGETATION PLOTS DURING SEPTEMBER, 1978

LOCATION - R3 SUBSTRATE 2 PROCESS SHALE
 TREATMENT -- MULCH - HYDRO SEEDED HIGH

SPECIES	SUBPLOT						TREATMENT PLOT AVERAGE
	1	2	3	4	5	6	
GRASSES - PLANTED							
AGROPYRON TRICHOPOHORUM	3.0	2.0	5.0	4.0	2.0	4.0	3.3
AGROPYRON SPP.	4.0	7.0	7.0	5.0	9.0	10.0	7.0
DRYZOPSIS HYMENOIDES	3.0	7.0	3.0	4.0	4.0	4.0	4.2
BROMUS INERMIS	3.0	8.0	3.0	4.0	5.0	1.0	4.0
SUBTOTAL							18.5
FORBS - PLANTED							
LINUM LEWISII	0.0	0.1	0.0	0.0	0.0	0.0	0.0
ASTRAGALUS CICER	2.0	0.1	0.0	1.0	0.1	0.1	0.5
MELILLOTUS OFFICINALIS	0.0	0.0	3.0	1.0	0.1	0.1	0.7
PENSTEMON STRICTUS	0.1	0.0	0.0	0.0	0.0	0.1	0.0
SUBTOTAL							1.3
SHRUBS - PLANTED							
KUCHIA PROSTRATA	0.0	5.0	0.0	0.0	0.0	0.0	0.8
PURSHIA TRIDENTATA	0.1	0.1	0.1	0.0	0.1	0.0	0.1
CERCOCARPUS MONTANUS	0.0	0.0	0.0	0.1	0.0	2.0	0.3
ATRIPLEX CANESCENS	4.0	4.0	13.0	6.0	2.0	3.0	5.3
EURDTIA LANATA	2.0	3.0	5.0	5.0	3.0	3.0	3.5
SUBTOTAL							10.1
PLANTED							
INVADED							29.9
GRAND TOTAL							0.0
							29.9

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
OCCURRING ON THE RBOSP REVEGETATION PLOTS DURING SEPTEMBER, 1978

SPECIES	SUBPLOT						TREATMENT PLOT AVERAGE
	1	2	3	4	5	6	
LOCATION - R3 SUBSTRATE 1 NO PROCESS SHALE TREATMENT -- MULCH - STRAW SEEDED LOW							
GRASSES - PLANTED							
AGROPYRON TRICHOPIHORUM	3.0	0.0	4.0	2.0	0.0	2.0	1.8
AGROPYRON SPP.	5.0	4.0	6.0	7.0	4.0	8.0	5.7
GRYZOPSIS HYMEMNIOIDES	0.0	1.0	6.0	2.0	0.0	2.0	1.8
BROMUS INERMIS	5.0	4.0	3.0	2.0	1.0	4.0	3.2
SUBTOTAL							12.5
GRASSES - INVADOED							
KOELERIA SP.	0.0	0.0	0.0	0.0	4.0	0.0	0.7
AGROPYRON CRISTATUM	0.0	0.1	0.0	0.0	0.0	0.0	0.0
SUBTOTAL							0.7
FORBS - PLANTED							
LINUM LEWISII	0.0	0.0	2.0	1.0	0.0	0.0	0.5
ASTRAGALUS CICER	0.0	1.0	0.0	2.0	3.0	1.0	1.2
MELILOTUS OFFICINALIS	5.0	7.0	6.0	7.0	8.0	6.0	6.5
PENSTEMON STRICTUS	0.0	0.0	0.0	1.0	1.0	0.0	0.3
SUBTOTAL							8.5
FORBS - INVADOED							
SALSOLA KALI	0.0	0.0	0.0	0.0	1.0	1.0	0.3
CRYPTANTHA SERICEA	0.0	0.0	1.0	0.0	0.0	0.0	0.2
SUBTOTAL							0.5
SHRUBS - PLANTED							
CAMPORUSMA MONSPELIACA	0.0	1.0	0.0	0.0	0.0	0.0	0.2
ATRIPLEX BONNEVILLENSIS	0.0	0.0	0.0	5.0	0.0	0.0	0.8
CHRYSOTHAMNUS SPP.	0.0	0.0	3.0	0.0	0.0	0.0	0.5
PURSHIA TRIDENTATA	0.0	0.1	0.0	0.0	0.0	0.0	0.0
ATRIPLEX CANESCENS	0.0	1.0	4.0	3.0	1.0	0.0	1.5
EUROTIA LANATA	2.0	1.0	0.0	1.0	0.0	4.0	1.3
SUBTOTAL							4.3
PLANTED							
INVADOED							25.3
GRAND TOTAL							1.2
							26.5

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
 OCCURRING ON THE RBOSP REVEGETATION PLOTS DURING SEPTEMBER, 1978

LOCATION - R3 SUBSTRATE 2 PROCESS SHALE
 TREATMENT -- MULCH - STRAW SEEDED LOW

SPECIES	SUBPLOT						TREATMENT PLOT AVERAGE
	1	2	3	4	5	6	
GRASSES - PLANTED							
AGROPYRON TRICHOPHORUM	0.0	1.0	2.0	0.0	4.0	0.0	1.2
AGROPYRON SPP.	3.0	6.0	5.0	16.0	5.0	5.0	6.7
ORYZOPSIS HYMENOIDES	0.0	4.0	3.0	3.0	3.0	1.0	2.3
STIPA VIRIDULA	2.0	0.0	2.0	1.0	0.0	0.0	0.8
BROMUS INERMIS	0.0	1.0	4.0	4.0	8.0	14.0	5.2
SUBTOTAL							16.2
GRASSES - INVADED							
KOeleria sp.	3.0	2.0	1.0	0.0	0.0	0.0	1.0
AGROPYRON CRISTATUM	1.0	1.0	0.0	1.0	2.0	0.0	0.8
SUBTOTAL							1.8
FORBS - PLANTED							
ASTRAGALUS CICER	1.0	0.0	0.0	1.0	2.0	1.0	0.8
MELILLOTUS OFFICINALIS	4.0	3.0	5.0	1.0	2.0	4.0	3.2
SUBTOTAL							4.0
FORBS - INVADED							
SALSCLA KALI	1.0	0.0	0.0	0.0	0.0	0.0	0.2
SUBTOTAL							0.2
SHRUBS - PLANTED							
CHRYSOTHAMNUS SPP.	0.0	0.0	6.0	0.0	0.0	0.0	1.0
PURSHIA TRIOENTATA	0.1	0.0	2.0	2.0	0.0	0.0	0.7
ATRIFLEX CANFESCENS	1.0	0.0	0.0	0.0	5.0	2.0	1.3
EUROTTIA LANATA	0.0	0.0	0.0	0.0	0.0	1.0	0.2
SUBTOTAL							3.2
PLANTED							
INVADED							23.3
GRAND TOTAL							25.3

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
 OCCURRING ON THE RBOSP REVEGETATION PLOTS DURING SEPTEMBER, 1978

LOCATION - R3 TREATMENT -- MULCH - STRAW SEEDED MEDIUM	SUBSTRATE 1 NO PROCESS SHALE					
	1	2	3	4	5	6
SPECIES						
GRASSES - PLANTED						
AGROPYRON TRICHOPHORUM	2.0	0.0	3.0	4.0	5.0	1.0
AGROPYRON SPP.	10.0	8.0	9.0	11.0	17.0	4.0
ORYZOPSIS HYMENDIOES	1.0	2.0	0.0	4.0	3.0	4.0
STIPA VIRIOULA	0.0	0.0	0.0	0.0	0.0	1.0
BROMUS INERMIS	5.0	2.0	2.0	7.0	3.0	5.0
SUBTOTAL						18.8
GRASSES - INVADED						
BROMUS TECTURUM	0.0	0.0	0.0	0.0	0.0	1.0
AGROPYRON CRISTATUM	0.0	2.0	0.0	0.0	0.0	0.0
SUBTOTAL						0.2 0.3 0.5
FORBS - PLANTED						
LINUM LEHESIT	0.0	0.0	1.0	0.0	0.0	2.0
ASTRAGALUS CJCER	1.0	0.0	2.0	1.0	2.0	2.0
MELILOTUS OFFICINALIS	3.0	3.0	3.0	4.0	6.0	10.0
SUBTOTAL						0.5 1.3 4.8 6.7
FORBS - INVADED						
SALSCLA KALI	0.0	0.1	0.0	0.0	0.0	0.0
CRYPTANTHA SERICEA	0.0	0.0	0.0	2.0	0.0	0.0
SUBTOTAL						0.0 0.3 0.3
SHRUBS - PLANTED						
CHRYSOTHAMNUS SPP.	0.0	0.0	0.0	0.0	2.0	0.0
PURSHIA TRIDENTATA	0.1	0.0	0.0	0.1	1.0	0.0
ATRIPLEX CANESCENS	1.0	3.0	0.0	3.0	4.0	0.0
EUROTTIA LANATA	3.0	7.0	3.0	4.0	2.0	5.0
SUBTOTAL						6.4
PLANTED						31.9
INVADED						0.8
GRAND TOTAL						32.7

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
OCCURRING ON THE RBOSP REVEGETATION PLOTS DURING SEPTEMBER, 1978

SPECIES	SUBPLOT						TREATMENT PLOT AVERAGE
	1	2	3	4	5	6	
LOCATION - R3 SUBSTRATE 2 PROCESS SHALE							
TREATMENT -- MULCH - STRAW SEEDED MEDIUM							
GRASSES - PLANTED							
AGROPYRON TRICHOPOHORUM	5.0	0.0	6.0	0.0	3.0	0.0	2.3
AGROPYRON SPP.	8.0	5.0	3.0	7.0	5.0	6.0	5.7
ORYZOPSIS HYMENOIDES	2.0	0.0	2.0	2.0	2.0	2.0	1.7
BROMUS INERMIS	6.0	4.0	2.0	2.0	6.0	4.0	4.0
SUBTOTAL							13.7
GRASSES - INVADED							
AGROPYRON CRISTATUM	0.0	7.0	3.0	0.0	0.0	0.0	1.7
SUBTOTAL							1.7
FORBS - PLANTED							
LINUM LEWISII	0.0	0.0	0.0	0.0	1.0	0.0	0.2
ASTRAGALUS CICER	0.0	0.0	0.0	0.1	2.0	1.0	0.5
MELILOTUS OFFICINALIS	2.0	1.0	8.0	7.0	10.0	5.0	5.5
PENSTEMON STRICTUS	0.0	1.0	0.0	0.0	0.0	0.0	0.2
SUBTOTAL							6.3
FORBS - INVADED							
SALSCLA KALI	0.0	0.0	1.0	0.0	0.0	0.0	0.2
SUBTOTAL							0.2
SHRUBS - PLANTED							
ARTEMISIA TRIDENTATA	0.0	1.0	0.0	0.0	0.0	0.0	0.2
KUCHIA PROSTRATA	0.0	0.0	0.0	0.0	3.0	0.0	0.5
PURSHIA TRIDENTATA	0.1	0.0	0.0	0.0	0.0	0.0	0.0
ATRIPLEX CANESCENS	0.0	3.0	0.0	1.0	4.0	9.0	2.8
EUROTIA LANATA	6.0	0.0	0.0	7.0	3.0	5.0	3.5
SUBTOTAL							7.0
PLANTED							27.0
INVADED							1.8
GRAND TOTAL							28.9

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES
 OCCURRING ON THE RBO SP REVEGETATION PLOTS DURING SEPTEMBER, 1978

SPECIES	SUBPLOT						TREATMENT PLOT AVERAGE
	1	2	3	4	5	6	
LOCATION - R3 SUBSTRATE 1 NO PROCESS SHALE							
TREATMENT -- MULCH - STRAW SEEDEO HIGH							
GRASSES - PLANTEO							
AGROPYRON TRICHOPOHORUM	4.0	2.0	1.0	8.0	3.0	3.0	3.5
AGROPYRON SPP.	8.0	6.0	8.0	12.0	10.0	8.0	8.7
DRYZOPSIS HYMENOIDES	4.0	4.0	3.0	1.0	4.0	2.0	3.0
BROMUS INERMIS	7.0	3.0	6.0	3.0	2.0	2.0	3.8
SUBTOTAL							19.0
GRASSES - INVADEO							
KOELERIA SP.	0.0	0.0	2.0	0.0	0.0	0.0	0.3
SUBTOTAL							0.3
FORBS - PLANTEO							
LINUM LEWISII	0.0	0.0	2.0	0.0	0.0	0.0	0.3
ASTRAGALUS CICER	0.0	1.0	0.0	0.0	0.0	1.0	0.3
HEOYSARUM UTAHENSIS	0.0	0.0	0.0	0.1	0.0	0.0	0.0
MELILLOTUS OFFICINALIS	2.0	1.0	3.0	2.0	4.0	5.0	2.8
SUBTOTAL							3.5
FORBS - INVADEO							
SALSCLA KALI	0.1	0.0	0.0	0.0	0.0	0.0	0.0
PHYSARIA FLORIBUNOA	0.0	1.0	0.0	0.0	0.0	0.0	0.2
SUBTOTAL							0.2
SHRUBS - PLANTED							
KOCHIA PROSTRATA	0.0	0.0	4.0	0.0	0.0	0.0	0.7
PURSHIA TRIIDENTATA	1.0	1.0	0.0	0.0	1.0	0.1	0.5
ATRIPLEX CANESCENS	9.0	3.0	4.0	2.0	3.0	3.0	4.0
EUROTTIA LANATA	5.0	3.0	1.0	3.0	7.0	7.0	4.3
SUBTOTAL							9.5
GRAND TOTAL							
PLANTEO							32.0
INVADEO							0.5
GRAND TOTAL							32.5

APPENDIX B-1. PERCENT COVER OF PLANT SPECIES OCCURRING ON THE RBOSP REVEGETATION PLOTS DURING SEPTEMBER, 1978

SPECIES	SUBPLOT						TREATMENT PLOT AVERAGE
	1	2	3	4	5	6	
LOCATION - R3 SUBSTRATE 2 PROCESS SHALE TREATMENT -- MULCH - STRAW SEEDED HIGH							
GRASSES - PLANTED							
AGROPYRON TRICHOPODUM	3.0	8.0	5.0	3.0	2.0	5.0	4.3
AGROPYRON SMITHII	2.0	0.0	2.0	0.0	0.0	0.0	0.7
AGROPYRON SPP.	7.0	10.0	12.0	6.0	16.0	5.0	9.3
ORYZOPSIS HYMENOIDES	6.0	7.0	7.0	6.0	3.0	3.0	5.3
BROMUS INERMIS	6.0	3.0	7.0	3.0	3.0	4.0	4.3
SUBTOTAL							24.0
GRASSES - INVADED							
UNKNKNW GRASS	0.0	0.0	0.0	0.0	1.0	0.0	0.2
SUBTOTAL							0.2
FORBS - PLANTED							
ASTRAGALUS CICER	0.1	0.0	1.0	1.0	1.0	2.0	0.8
HEDYSARUM UTAHENSIS	0.1	0.0	0.0	0.0	0.0	0.0	0.0
MELILLOTUS OFFICINALIS	0.0	0.1	2.0	0.0	1.0	7.0	1.7
SUBTOTAL							2.5
FORBS - INVADED							
PHYSARIA FLORIBUNDA	0.0	0.0	0.0	0.0	1.0	0.0	0.2
SUBTOTAL							0.2
SHRUBS - PLANTED							
PURSHIA TRIDENTATA	0.1	1.0	0.0	1.0	1.0	0.1	0.5
ATRIPEX CANESCENS	0.0	1.0	2.0	4.0	2.0	5.0	2.3
EURDTIA LANATA	3.0	3.0	3.0	6.0	4.0	8.0	4.5
SUBTOTAL							7.4
PLANTED INVADED GRAND TOTAL							
							33.9
							0.3
							34.2

APPENDIX B-2. COMPARISON OF PERCENT COVER OF PLANT SPECIES BETWEEN
THE TWO SUBSTRATE TREATMENTS.

APPENDIX B-2. COMPARISON OF PERCENT COVER OF PLANT SPECIES BETWEEN THE TWO SUBSTRATE TREATMENTS.

Treatment: No Mulch
Medium Seeding

<u>Plant Species</u>	<u>Processed Shale</u>	<u>No Processed Shale</u>
GRASSES		
<u>Agropyron trichophorum</u>	1.8	2.8
<u>Agropyron spp.</u>	7.5	8.2
<u>Oryzopsis hymenoides</u>	6.5	0.5
<u>Stipa viridula</u>	0.7	0.2
<u>Bromus inermis</u>	4.2	1.8
<u>Sitanion hystrix</u>	-	0.3
Subtotal	20.7	13.8
FORBS		
<u>Linum lewisii</u>	0.7	0.3
<u>Astragalus cicer</u>	0.7	1.3
<u>Melilotus officinalis</u>	2.7	7.2
<u>Astragalus tegetarius</u>	0.3	-
<u>Salsola kali</u>	0.5	0.3
<u>Physaria floribunda</u>	-	0.2
<u>Cryptantha sericea</u>	-	0.2
Subtotal	4.9	9.5
SHRUBS		
<u>Artemisia tridentata</u>	-	0.2
<u>Chrysothamnus spp.</u>	.2	-
<u>Purshia tridentata</u>	+	0.7
<u>Cercocarpus montanus</u>	-	+
<u>Atriplex canescens</u>	2.0	1.8
<u>Eurotia lanata</u>	4.0	4.2
Subtotal	6.2	6.9
TOTAL	31.8	30.2

+ Indicates Presence

APPENDIX B-2 COMPARISON OF PERCENT COVER OF PLANT SPECIES BETWEEN TWO SUBSTRATE TREATMENTS.

Treatment: No Mulch
Low Seeding

<u>Plant Species</u>	<u>Processed Shale</u>	<u>No Processed Shale</u>
GRASSES		
<u>Agropyron trichophorum</u>	1.3	2.7
<u>Agropyron spp.</u>	6.0	6.3
<u>Oryzopsis hymenoides</u>	2.3	1.0
<u>Stipa viridula</u>	0.2	0.2
<u>Bromus inermis</u>	2.0	2.3
<u>Bromus tectorum</u>	0.2	-
<u>Agropyron cristatum</u>	0.8	-
Subtotal	12.8	12.5
FORBS		
<u>Linum lewisii</u>	-	0.2
<u>Astragalus cicer</u>	0.3	0.7
<u>Melilotus officinalis</u>	4.0	4.0
<u>Penstemon strictus</u>	0.2	0.3
<u>Astragalus tegetarius</u>	0.5	-
<u>Salsola kali</u>	1.5	0.7
<u>Physaria floribunda</u>	+	0.3
Unknown forb	0.3	-
Subtotal	6.8	6.2
SHRUBS		
<u>Kochia prostrata</u>	-	0.7
<u>Atriplex bonnevillensis</u>	-	0.7
<u>Purshia tridentata</u>	+	-
<u>Atriplex canescens</u>	3.2	1.8
<u>Eurotia lanata</u>	3.8	3.0
Subtotal	7.0	6.2
TOTAL	26.6	24.9

+ Indicates presence

APPENDIX B-2. COMPARISON OF PERCENT COVER OF PLANT SPECIES BETWEEN TWO SUBSTRATE TREATMENTS.

Treatment: Hay
Low Seeding

<u>Plant Species</u>	<u>Processed Shale</u>	<u>No Processed Shale</u>
GRASSES		
<u>Agropyron trichophorum</u>	1.2	1.8
<u>Agropyron spp.</u>	6.7	5.7
<u>Oryzopsis hymenoides</u>	2.3	1.8
<u>Stipa viridula</u>	0.8	-
<u>Bromus inermis</u>	5.2	3.2
<u>Koeleria sp.</u>	1.0	0.7
<u>Agropyron cristatum</u>	0.8	+
Subtotal	18.0	13.2
FORBS		
<u>Linum lewisii</u>	-	0.5
<u>Astragalus cicer</u>	0.8	1.2
<u>Melilotus officinalis</u>	3.2	6.5
<u>Penstemon strictus</u>	-	0.3
<u>Salsola kali</u>	0.2	0.3
<u>Cryptantha sericea</u>	-	0.2
Subtotal	4.2	9.0
SHRUBS		
<u>Chrysothamnus spp.</u>	1.0	0.5
<u>Purshia tridentata</u>	0.7	+
<u>Atriplex canescens</u>	1.3	1.5
<u>Eurotia lanata</u>	0.2	1.3
Subtotal	3.2	3.3
TOTAL	25.4	25.5

+ Indicates Presence

APPENDIX B-2 . COMPARISON OF PERCENT COVER OF PLANT SPECIES BETWEEN TWO SUB-STRATE TREATMENTS.

Treatments: Hay
Medium Seeding

<u>Plant Species</u>	<u>Processed Shale</u>	<u>No Processed Shale</u>
GRASSES		
<u>Agropyron trichophorum</u>	2.3	2.5
<u>Agropyron spp.</u>	5.7	9.8
<u>Oryzopsis hymenoides</u>	1.7	2.3
<u>Stipa viridula</u>	-	0.2
<u>Bromus inermis</u>	4.0	4.0
<u>Bromus tectorum</u>	-	0.2
<u>Agropyron cristatum</u>	1.7	0.3
Subtotal	15.4	19.3
FORBS		
<u>Linum lewisii</u>	0.2	0.5
<u>Astragalus cicer</u>	0.5	1.3
<u>Melilotus officinalis</u>	5.5	4.8
<u>Penstemon strictus</u>	0.2	-
<u>Salsola kali</u>	0.2	+
<u>Cryptantha sericea</u>	-	0.3
Subtotal	6.6	6.9
SHRUBS		
<u>Artemisia tridentata</u>	0.2	-
<u>Chrysothamnus spp.</u>	-	0.3
<u>Purshia tridentata</u>	+	0.2
<u>Atriplex canescens</u>	2.8	1.8
<u>Eurotia lanata</u>	3.5	4.0
Subtotal	6.5	6.3
TOTAL	28.5	32.5

+ Indicates Presence

APPENDIX B-2 COMPARISON OF PERCENT COVER OF PLANT SPECIES BETWEEN THE TWO SUBSTRATE TREATMENTS.

Treatment: Hay
High Seeding

<u>Plant Species</u>	<u>Processed Shale</u>	<u>No Processed Shale</u>
GRASSES		
<u>Agropyron trichoporum</u>	4.3	3.5
<u>Agropyron smithii</u>	0.7	8.7
<u>Agropyron spp.</u>	9.3	-
<u>Oryzopsis hymenoides</u>	5.3	3.0
<u>Bromus inermis</u>	4.3	3.8
<u>Koeleria sp.</u>	-	0.3
<u>Unknown grass</u>	0.2	-
Subtotal	24.1	19.3
FORBS		
<u>Linum lewisii</u>	-	0.3
<u>Astragalus cicer</u>	0.8	0.3
<u>Hedysarum utahensis</u>	+	+
<u>Melilotus officinalis</u>	1.7	2.8
<u>Salsola kali</u>	-	+
<u>Physaria floribunda</u>	0.2	0.2
Subtotal	2.7	3.6
SHRUBS		
<u>Purshia tridentata</u>	0.5	0.5
<u>Atriplex canescens</u>	2.3	4.0
<u>Eurotia lanta</u>	4.5	4.3
Subtotal	7.3	8.3
TOTAL	34.1	31.7

+ Indicates Presence

APPENDIX B-2. COMPARISON OF PERCENT COVER OF PLANT SPECIES BETWEEN TWO SUBSTRATE TREATMENTS.

Treatment: Hydromulch
Low Seeding

<u>Plant Species</u>	<u>Processed Shale</u>	<u>No Processed Shale</u>
GRASSES		
<u>Agropyron trichophorum</u>	3.3	2.0
<u>Agropyron spp.</u>	5.7	2.0
<u>Oryzopsis hymenoides</u>	2.0	1.0
<u>Stipa viridula</u>	1.0	1.7
<u>Bromus inermis</u>	2.0	1.3
<u>Bromus tectorum</u>	-	0.2
<u>Agropyron cristatum</u>	-	0.5
Subtotal	14.0	8.7
FORBS		
<u>Astragalus cicer</u>	0.8	0.7
<u>Melilotus officinalis</u>	2.7	4.2
<u>Penstemon strictus</u>	0.2	-
<u>Salsola kali</u>	1.0	1.5
<u>Physaria floribunda</u>	+	+
<u>Cryptantha sericea</u>	-	0.2
Unknown forb	0.2	-
Subtotal	4.9	6.6
SHRUBS		
<u>Artemisia tridentata</u>	0.5	-
<u>Chrysothamnus spp.</u>	0.3	0.2
<u>Purshia tridentata</u>	-	0.3
<u>Atriplex canescens</u>	0.3	2.2
<u>Eurotia lanata</u>	3.2	-
Subtotal	4.3	2.7
TOTAL	23.2	18.0

+ Indicates Presence

APPENDIX B-2. COMPARISON OF PERCENT COVER OF PLANT SPECIES BETWEEN TWO SUBSTRATE TREATMENTS.

Treatment: Hydromulch
Medium Seeding

<u>Plant Species</u>	<u>Processed Shale</u>	<u>No Processed Shale</u>
GRASSES		
<u>Agropyron trichophorum</u>	2.8	2.0
<u>Agropyron spp.</u>	8.7	5.7
<u>Oryzopsis hymenoides</u>	2.3	1.0
<u>Stipa viridula</u>	-	0.2
<u>Bromus inermis</u>	4.5	2.2
Subtotal	18.3	11.1
FORBS		
<u>Linum lewisii</u>	0.3	0.3
<u>Astragalus cicer</u>	0.8	1.0
<u>Melilotus officinalis</u>	4.2	11.5
<u>Penstemon strictus</u>	-	0.2
<u>Astragalus tegetarius</u>	0.2	0.5
<u>Salsola kali</u>	+	0.2
<u>Cryptantha sericea</u>	-	0.2
Subtotal	5.5	13.9
SHRUBS		
<u>Purshia tridentata</u>	-	0.5
<u>Cercocarpus montanus</u>	-	+
<u>Atriplex canescens</u>	2.0	1.3
<u>Eurotia lanata</u>	3.5	7.3
Subtotal	5.5	9.1
TOTAL	29.3	34.1

+ Indicates Presence

APPENDIX B-2. COMPARISON OF PERCENT COVER OF PLANT SPECIES BETWEEN TWO SUB-STRATE TREATMENTS.

Treatment: Hydromulch
High Seeding

<u>Plant Species</u>	<u>Processed Shale</u>	<u>No Processed Shale</u>
GRASSES		
<u>Agropyron trichophorum</u>	3.3	2.7
<u>Agropyron spp.</u>	7.0	10.0
<u>Oryzopsis hymenoides</u>	4.2	1.7
<u>Stipa viridula</u>	-	+
<u>Bromus inermis</u>	4.0	4.3
Subtotal	18.5	18.7
FORBS		
<u>Linum lewisii</u>	+	-
<u>Astragalus cicer</u>	0.5	0.5
<u>Melilotus officinalis</u>	0.7	3.3
<u>Penstemon strictus</u>	+	-
<u>Astragalus tegetarius</u>	-	0.5
<u>Salsola kali</u>	-	0.2
<u>Physaria floribunda</u>	-	0.3
Subtotal	1.2	4.8
SHRUBS		
<u>Purshia tridentata</u>	0.1	0.8
<u>Cercocarpus montanus</u>	0.3	+
<u>Atriplex canescens</u>	5.3	3.5
<u>Eurotia lanata</u>	3.5	6.7
Subtotal	9.2	11.0
TOTAL	28.9	34.5

+ Indicates Presence

APPENDIX B-2 COMPARISON OF PERCENT COVER OF PLANT SPECIES BETWEEN TWO SUBSTRATE TREATMENTS.

Treatment: No Mulch
High Seeding

<u>Plant Species</u>	<u>Processed Shale</u>	<u>No Processed Shale</u>
GRASSES		
<u>Agropyron trichophorum</u>	2.0	3.3
<u>Agropyron spp.</u>	7.5	6.5
<u>Oryzopsis hymenoides</u>	6.2	3.5
<u>Stipa viridula</u>	-	+
<u>Bromus inermis</u>	4.2	4.0
<u>Bromus tectorum</u>	-	0.3
Subtotal	19.9	17.6
FORBS		
<u>Linum lewisii</u>	0.3	0.7
<u>Astragalus cicer</u>	0.2	0.2
<u>Melilotus officinalis</u>	0.4	1.3
<u>Penstemon strictus</u>	-	+
<u>Astragalus tegetarius</u>	0.2	-
<u>Salsola kali</u>	+	0.2
Subtotal	1.1	2.4
SHRUBS		
<u>Purshia tridentata</u>	0.2	+
<u>Atriplex canescens</u>	2.5	2.8
<u>Eurotia lanata</u>	5.3	6.7
Subtotal	8.0	9.5
TOTAL	29.0	29.5

+ Indicates Presence

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER AT THE RBOSC
REVEGETATION SITE R₃

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: GRASS_F									
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE			C.V.
MODEL	17	1706.47046296	100.37767429	3.73	0.0001	0.413078			32.3928
ERROR	90	2424.57166667	26.93968519		STD DEV				GRASS_P MEAN
CORRECTED TOTAL	107	4130.99212963			5.19034538				16.02314815

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	218.16898168	8.10	0.0055
MULCH	2	122.22907407	2.27	0.1093
SUBSTRAT*MULCH	2	46.52907407	0.86	0.4251
SEEDING	2	897.48962963	16.66	0.0001
SUBSTRAT*SEEDING	2	2.37851852	0.04	0.9568
SEEDING*MULCH	4	49.51259259	0.46	0.7653
SUBSTRAT*SEEDING*MULCH	4	370.11259259	3.43	0.0116

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	122.22907407	2.63	0.2757

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	897.48962963	377.33	0.0026

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	49.51259259	0.13	0.9615

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: FORBS_P

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
MODEL	17	884.97740741	52.05749455	6.73	0.0001	0.559834	56.0878
ERROR	90	695.80666667	7.73118519		STD DEV		FORBS_P MEAN
CORRECTED TOTAL	107	1580.78407407			2.78050089		4.95740741

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	192.00000000	24.83	0.0001
MULCH	2	25.44574074	1.65	0.1986
SUPSTRAT*MULCH	2	17.72166667	1.15	0.3225
SEEDING	2	447.82907407	28.96	0.0001
SUBSTRAT*SEEDING	2	35.42055556	2.29	0.1071
SEEDING*MULCH	4	72.17092593	2.33	0.0616
SUBSTRAT*SEEDING*MULCH	4	94.38944444	3.05	0.0208

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	25.44574074	1.44	0.4105

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	447.82907407	12.64	0.0733

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	72.17092593	0.76	0.5995

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R3.

DEPENDENT VARIABLE: FORBS_I	SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
	MODEL	17	40.42666667	2.37803922	2.61	0.0018	0.330526	146.7449
	ERROR	90	81.88333333	0.90981481		STD DEV		FORBS_I MEAN
	CORRECTED TOTAL	107	122.31000000			0.95384213		0.65000000

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	0.48000000	0.53	0.4695
MULCH	7	8.46888889	4.65	0.0119
SUBSTRAT*MULCH	2	6.74888889	3.71	0.0283
SEEDING	2	14.56166667	8.00	0.0006
SUBSTRAT*SEEDING	2	1.31055556	0.72	0.4894
SEEDING*MULCH	4	6.34277778	1.74	0.1475
SUBSTRAT*SEEDING*MULCH	4	2.51388889	0.69	0.6002

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	8.46888889	1.25	0.4435

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	14.56166667	11.11	0.0826

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	6.34277778	2.52	0.1960

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: SHRUB_P									
SOURCE	OF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.		
MODEL	17	521.2100000	30.65941176	2.73	0.0011	0.340611	47.1594	SHRUB_P MEAN	
ERROR	90	1009.0100000	11.21122222		STO DEV		7.10000000		
CORRECTED TOTAL	107	1530.22000000			3.34831633				
TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM									
SOURCE	OF	ANOVA SS	F VALUE	PR > F					
SUBSTRAT	1	17.76333333	1.58	0.2114					
MULCH	2	35.12888889	1.57	0.2144					
SUBSTRAT*MULCH	2	3.72666667	0.17	0.8471					
SEEDING	2	334.55722222	14.92	0.0001					
SUBSTRAT*SEEDING	2	21.60388889	0.96	0.3855					
SEEDING*MULCH	4	54.52222222	1.22	0.3097					
SUBSTRAT*SEEDING*MULCH	4	53.90777778	1.20	0.3155					

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM									
SOURCE	OF	ANOVA SS	F VALUE	PR > F					
MULCH	2	35.12888889	9.43	0.0959					

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM									
SOURCE	OF	ANOVA SS	F VALUE	PR > F					
SEEDING	2	334.55722222	15.49	0.0607					

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM									
SOURCE	OF	ANOVA SS	F VALUE	PR > F					
SEEDING*MULCH	4	54.52222222	1.01	0.4957					

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R3.

DEPENDENT VARIABLE: INVADDED	SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
	MODEL	17	74.53157407	4.38421024	2.36	0.0048	0.308675	127.5657
	ERROR	90	166.92500000	1.85472222		STO DEV		INVADDED MEAN
	CORRECTED TOTAL	107	241.45657407			1.36188187		1.06759259

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	0.12675926	0.07	0.7964
MULCH	2	1.07907407	0.29	0.7493
SUBSTRAT*MULCH	2	13.87574074	3.74	0.0275
SEEDING	2	37.60685185	10.14	0.0001
SUBSTRAT*SEEDING	2	6.19129630	1.67	0.1942
SEEDING*MULCH	4	5.42481481	0.73	0.5730
SUBSTRAT*SEEDING*MULCH	4	10.22703704	1.38	0.2477

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	1.07907407	0.08	0.9278

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	37.60685185	6.07	0.1414

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	5.42481481	0.53	0.7229

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: PLANTED	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
SOURCE	17	2263.00416667	133.11789216	3.38	0.00011	0.389533	22.3550
MODEL							
ERROR	90	3546.52500000	39.40583333		STD DEV		PLANTED MEAN
CORRECTED TOTAL	107	5809.52916667			6.27740658		28.08055556

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	10.89342593	0.28	0.6003
MULCH	2	38.55166667	0.49	0.6168
SUBSTRAT*MULCH	2	18.70796296	0.24	0.7892
SEEDING	2	1650.53388889	20.94	0.0001
SUBSTRAT*SEEDING	2	66.41907407	0.84	0.4339
SEEDING*MULCH	4	234.98444444	1.49	0.2116
SUBSTRAT*SEEDING*MULCH	4	242.90370370	1.54	0.1971

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	38.55166667	2.06	0.3267

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	1650.53388889	24.85	0.0397

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	234.98444444	0.97	0.5124

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOBP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: TOTAL							
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
MODEL	17	1792.16296296	105.42135076	3.23	0.0002	0.379027	19.5956
ERROR	90	2936.16666667	32.62407407		STD DEV		TOTAL MEAN
CORRECTED TOTAL	107	4728.37962963			5.71174878		29.14814815
TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM							
SOURCE	DF	ANOVA SS	F VALUE	PR > F			
SUBSTRAT	1	8.67000000	0.27	0.6075			
MULCH	2	43.94962963	0.67	0.5124			
SUBSTRAT*MULCH	2	36.16222222	0.52	0.5942			
SEEDING	2	1208.67574074	18.52	0.0001			
SUBSTRAT*SEEDING	2	95.45722222	1.46	0.2370			
SEEDING*MULCH	4	223.18092593	1.71	0.1566			
SUBSTRAT*SEEDING*MULCH	4	178.06722222	1.36	0.2526			

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM						
SOURCE	DF	ANOVA SS	F VALUE	PR > F		
MULCH	2	43.94962963	1.29	0.4374		

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM						
SOURCE	DF	ANOVA SS	F VALUE	PR > F		
SEEDING	2	1208.67574074	12.66	0.0732		

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM						
SOURCE	DF	ANOVA SS	F VALUE	PR > F		
SEEDING*MULCH	4	223.18092593	1.25	0.4160		

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R3.

DEPENDENT VARIABLE: AGR_TRI									
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.		
MODEL	17	69.09416667	4.06436275	1.14	0.3312	0.177042	74.1622		
ERROR	90	321.17500000	3.56861111		STO DEV		AGR_TRI MEAN		
CORRECTED TOTAL	107	390.26916667			1.88907679		2.54722222		

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	0.24083333	0.07	0.7956
MULCH	2	2.53166667	0.35	0.7024
SUBSTRAT*MULCH	2	21.35388889	2.99	0.0552
SEEDING	2	24.01500000	3.48	0.0351
SUBSTRAT*SEEDING	2	0.33722222	0.05	0.9539
SEEDING*MULCH	4	15.69666667	1.10	0.3617
SUBSTRAT*SEEDING*MULCH	4	4.11888889	0.29	0.8847

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM				
SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	2.53166667	0.12	0.8940

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM				
SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	24.01500000	73.59	0.0134

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM				
SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	15.69666667	3.81	0.1117

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: AGR_SPP

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
MODEL	17	382.60185185	22.50599129	2.13	0.0117	0.287073	46.1124
ERROR	90	950.16666667	10.55740741		STD DEV		AGR_SPP MEAN
CORRECTED TOTAL	107	1332.76851852			3.24921643		7.04629630

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	0.45370370	0.04	0.8362
MULCH	2	23.46296296	1.11	0.3336
SUBSTRAT*MULCH	2	19.24074074	0.91	0.4057
SEEDING	2	156.46296296	7.32	0.0011
SUBSTRAT*SEEDING	2	23.46296296	1.11	0.3336
SEEDING*MULCH	4	49.25925926	1.17	0.3310
SUBSTRAT*SEEDING*MULCH	4	112.25925926	2.66	0.0378

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	23.46296296	1.22	0.4506

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	156.46296296	6.58	0.1319

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	49.25925926	0.44	0.7777

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R.3.

DEPENDENT VARIABLE: DRY_HYM						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE
MODEL	17	322.18516519	18.95206972	6.17	0.0001	0.538304
ERROR	90	276.33333333	3.07037037		STO DEV	DRY_HYM MEAN
CORRECTED TOTAL	107	598.51851852			1.752224723	2.70370370
TESTS OF HYPOTHESES USING THE ANDVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM						
SOURCE	DF	ANOVA SS	F VALUE	PR > F	C.V.	
SUBSTRAT	1	96.33333333	31.38	0.0001		
MULCH	2	30.79629630	5.02	0.0086		
SUBSTRAT*MULCH	2	31.72222222	5.17	0.0075		
SEEDING	2	94.24074074	15.35	0.0001		
SUBSTRAT*SEEDING	2	12.38888889	2.02	0.1390		
SEEDING*MULCH	4	16.98148148	1.38	0.2463		
SUBSTRAT*SEEDING*MULCH	4	39.72222222	3.23	0.0158		

TESTS OF HYPOTHESES USING THE ANDVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM						
SOURCE	DF	ANOVA SS	F VALUE	PR > F		
MULCH	2	30.79629630	0.97	0.5074		

TESTS OF HYPOTHESES USING THE ANDVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM						
SOURCE	DF	ANOVA SS	F VALUE	PR > F		
SEEDING	2	94.24074074	7.61	0.0162		

TESTS OF HYPOTHESES USING THE ANDVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM						
SOURCE	DF	ANOVA SS	F VALUE	PR > F		
SEEDING*MULCH	4	16.98148148	0.43	0.7867		

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: STI_VIR

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
MODEL	17	21.6708333	1.28651961	4.51	0.0001	0.460156	190.3155
ERRR	90	25.6563333	0.28509259		STD DEV		STI_VIR MEAN
CORRECTED TOTAL	107	47.5291667			0.53394063		0.28055556

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	0.02675926	0.09	0.7600
MULCH	2	2.11722222	3.71	0.0282
SURSTRAT*MULCH	2	1.40240741	2.46	0.0912
SEEDING	2	7.59500000	13.32	0.0001
SURSTRAT*SEEDING	2	0.02462963	0.04	0.9577
SEEDING*MULCH	4	7.80611111	6.85	0.0001
SURSTRAT*SEEDING*MULCH	4	2.89870370	2.54	0.0451

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	2.11722222	1.51	0.3985

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SURSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	7.59500000	308.37	0.0032

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	7.80611111	2.69	0.1603

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: PRCV_INF

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
MODEL	17	132.95416667	7.82318627	1.66	0.0657	0.238596	63.7131
ERROR	90	424.40833333	4.71564615		STD DEV		BRO_LINE MEAN
CORRECTED TOTAL	107	557.40250000			2.17155432		3.40833333

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	17.84453704	3.78	0.0569
MULCH	2	24.61500000	2.61	0.0791
SUBSTRAT*MULCH	2	0.17240741	0.01	0.9871
SEEDING	2	37.48166667	3.97	0.0222
SUBSTRAT*SEEDING	2	9.41123630	1.00	0.3727
SEEDING*MULCH	4	23.46333333	1.24	0.2981
SUBSTRAT*SEEDING*MULCH	4	20.05592593	1.06	0.3794

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	24.61500000	201.09	0.0049

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	37.48166667	3.98	0.0207

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	23.46333333	1.17	0.4414

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: LTN_LEW

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
MODEL	17	5.60416667	0.33495098	1.26	0.2399	0.191707	213.7189
ERROR	90	24.00833333	0.26675926		STD DEV		LIN_LEW MEAN
CORRECTED TOTAL	107	29.70250000			0.51648742		0.24166667

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	0.57787037	2.17	0.1466
MULCH	2	1.10388889	2.07	0.1323
SUBSTRAT*MULCH	2	0.61129620	1.52	0.2241
SEEDING	2	1.40388889	2.63	0.0775
SUBSTRAT*SEEDING	2	0.28907407	0.54	0.5836
SEEDING*MULCH	4	1.01888889	0.95	0.4363
SUBSTRAT*SEEDING*MULCH	4	0.48925926	0.46	0.7659

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	1.10388889	1.36	0.4236

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	1.40388889	4.86	0.1708

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	1.01888889	2.08	0.2474

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: AST-CIC

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C-V.
MODEL	17	12.28157407	0.72244553	1.11	0.3563	0.173461	112.6630
ERRR	50	58.52166667	0.65024074		STD DEV		AST-CIC MEAN
CORRECTED TOTAL	107	70.80324074			0.80637506		0.71574074

SOURCE	DF	ANUVA SS	F VALUE	PR > F
SUBSTRAT	1	0.87120370	1.34	0.2501
MULCH	2	1.31574074	1.03	0.3622
SUBSTRAT*MULCH	2	0.56462963	0.43	0.6492
SEEDING	2	4.77629630	3.67	0.0293
SUBSTRAT*SEEDING	2	2.27629630	1.75	0.1796
SEEDING*MULCH	4	1.29203704	0.50	0.7381
SUBSTRAT*SEEDING*MULCH	4	1.116537037	0.45	0.7735

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANUVA SS	F VALUE	PR > F
MULCH	2	1.31574074	2.37	0.2971

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANUVA SS	F VALUE	PR > F
SEEDING	2	4.77629630	2.10	0.3228

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANUVA SS	F VALUE	PR > F
SEEDING*MULCH	4	1.29203704	1.11	0.4615

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R3.

DEPENDENT VARIABLE: MEL-OFF						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE
MDEL	17	708.24601852	41.66153050	7.47	0.0001	0.585143
ERROR	50	502.13500000	5.57927778		STD DEV	MEL-OFF MEAN
CORRECTED TOTAL	107	1210.38101852			2.36204949	3.92129630
SOURCE	DF	ANOVA SS	F VALUE	PR > F	C.V.	
SUBSTRAT	1	143.52083333	25.72	0.0001		
MULCH	2	25.96685185	2.33	0.1034		
SUBSTRAT*MULCH	2	32.41500000	2.90	0.0599		
SEEDING	2	328.67129630	29.45	0.0001		
SUBSTRAT*SEEDING	2	27.09722222	2.43	0.0939		
SEEDING*MULCH	4	62.53370370	2.80	0.0304		
SUBSTRAT*SEEDING*MULCH	4	88.06111111	3.95	0.0054		

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	25.96685185	0.80	0.5552

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	328.67129630	12.13	0.0762

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	62.53370370	0.71	0.6258

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R3.

DEPENDENT VARIABLE: PEN_STR						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE
MODEL	17	1.37046296	0.08061547	1.20	0.2770	0.185395
ERROR	90	6.0216667	0.06690741		STO. DEV	PEN_STR MEAN
CORRECTED TOTAL	107	7.39212963			0.25866466	0.07685185

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	0.03342593	0.50	0.4815
MULCH	2	0.01351852	0.10	0.9040
SUBSTRAT*MULCH	2	0.02907407	0.22	0.8051
SEEDING	2	0.47574074	3.56	0.0327
SUBSTRAT*SEEDING	2	0.07796296	0.58	0.5605
SEEDING*MULCH	4	0.21037037	0.79	0.5372
SUBSTRAT*SEEDING*MULCH	4	0.53037037	1.98	0.1040

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	0.01351852	0.46	0.6826

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	0.47574074	6.10	0.1408

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	0.21037037	0.40	0.8038

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R3.

DEPENDENT VARIABLE: ART_Tn1							
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
MODEL	17	1.60185185	0.09422656	0.93	0.5479	0.148753	689.3475
ERROR	90	9.1666667	0.10185185		STD DEV		ART_Tn1 MEAN
CORRECTED TOTAL	107	10.76851852			0.31914237		0.04629630

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	0.08333333	0.82	0.3681
MULCH	2	0.07407407	0.36	0.6962
SUBSTRAT*MULCH	2	0.22222222	1.09	0.3403
SEEDING	2	0.12962963	0.64	0.5316
SUBSTRAT*SEEDING	2	0.16666667	0.82	0.4445
SEEDING*MULCH	4	0.48148148	1.18	0.3242
SUBSTRAT*SEEDING*MULCH	4	0.44444444	1.09	0.3659

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	0.07407407	0.33	0.7500

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	0.12962963	0.78	0.5625

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	0.48148148	1.08	0.4700

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R3.

DEPENDENT VARIABLE: CHR-SPP						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE
MDEL	17	7.083333333	0.416666667	0.82	0.6690	0.133858
ERRUR	90	45.833333333	0.50925926		STD DEV	CHR_SPP MEAN
CORRECTED TOTAL	107	52.916666667			0.71362403	0.13888869

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	0.083333333	0.16	0.6868
MULCH	2	1.555555556	1.53	0.2227
SUBSTRAT*MULCH	2	0.000000000	0.00	1.0000
SEEDING	2	2.166666667	2.13	0.1251
SUBSTRAT*SEEDING	2	0.398888889	0.38	0.6837
SEEDING*MULCH	4	2.111111111	1.04	0.3930
SUBSTRAT*SEEDING*MULCH	4	0.777777778	0.38	0.8211

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM				
SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	1.555555556		

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM				
SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	2.166666667	5.57	0.1522

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM				
SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	2.111111111	2.71	0.1794

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R3.

DEPENDENT VARIABLE: PUR_TRI

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
MODEL	17	8.56712963	0.50394880	2.23	0.0060	0.296453	182.6765
ERROR	90	20.33166667	0.22590741		STD DEV		PUR_TRI MEAN
CORRECTED TOTAL	107	28.89879630			0.47529718		0.26018519

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	0.83564815	3.70	0.0576
MULCH	2	0.58018519	1.28	0.2819
SUBSTRAT*MULCH	2	2.2842963	5.06	0.0083
SEEDING	2	0.68574074	1.52	0.2248
SUBSTRAT*SEEDING	2	1.47574074	3.27	0.0427
SEEDING*MULCH	4	1.54703704	1.71	0.1542
SUBSTRAT*SEEDING*MULCH	4	1.15816815	1.28	0.2831

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	0.58018519	0.25	0.7975

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	0.68574074	0.46	0.6827

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	1.54703704	1.34	0.3929

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: CER_MGN

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
MODEL	17	0.68740741	0.04043573	1.10	0.3668	0.171963	796.6052
ERRP	90	3.31000000	0.03677778		STD DEV		CER_MGN MEAN
CORRECTED TOTAL	107	3.99740741			0.19177533		0.02407407

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	0.02370370	0.64	0.4242
MULCH	2	0.11129630	1.51	0.2258
SUBSTRAT*MULCH	2	0.05685185	0.77	0.4647
SEEDING	2	0.06685185	1.18	0.3118
SUBSTRAT*SEEDING	2	0.07907407	1.08	0.3456
SEEDING*MULCH	4	0.18425926	1.25	0.2946
SUBSTRAT*SEEDING*MULCH	4	0.14537037	0.99	0.4182

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	0.11129630	1.96	0.3381

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	0.06685185	1.10	0.4766

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	0.18425926	1.27	0.4119

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: ATR_CAN

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
MODEL	17	132.18518519	7.7759913	1.40	0.1567	0.208762	99.5363
ERROR	90	501.00000000	5.56666667				ATR_CAN MEAN
CORRECTED TOTAL	107	633.18518519			STD DEV		2.37037037

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	0.33333333	0.06	0.8072
MULCH	2	0.35185185	0.03	0.9689
SUESTRAT*MULCH	2	2.16666667	0.19	0.8235
SEEDING	2	60.24074074	5.41	0.0060
SUESTRAT*SEEDING	2	3.50000000	0.31	0.7310
SEEDING*MULCH	4	32.92592593	1.48	0.2153
SUESTRAT*SEEDING*MULCH	4	32.66666667	1.47	0.2188

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	0.35185185	0.16	0.8603

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	60.24074074	17.21	0.0549

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUESTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	32.92592593	1.01	0.4970

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: EUR_LAN	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
SOURCE	17	403.66666667	23.74509804	4.50	0.0000	0.459234	59.9517
MODEL							EUR_LAN MEAN
ERROR	50	475.33333333	5.28148148		STD DEV		3.83333333
CORRECTED TOTAL	107	879.00000000			2.29814740		

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	12.00000000	2.27	0.1352
MULCH	2	44.05555556	4.17	0.0185
SUBSTRAT*MULCH	2	5.38888889	0.51	0.6021
SEEDING	2	208.50000000	19.74	0.0001
SUBSTRAT*SEEDING	2	35.05555556	3.32	0.0407
SEEDING*MULCH	4	34.44444444	1.63	0.1735
SUBSTRAT*SEEDING*MULCH	4	64.22222222	3.04	0.0212

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	44.05555556	8.18	0.1090

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	208.50000000	5.95	0.1439

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	34.44444444	0.54	0.7195

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R3.

DEPENDENT VARIABLE: SIT_HYS

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
MODEL	17	0.62962963	0.03703704	1.00	0.4661	0.158879	1039.2305
ERROR	90	3.33333333	0.03703704		STD DEV		SIT_HYS MEAN
CORRECTED TOTAL	107	3.96296296			0.19245009		0.01851852

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	0.03703704	1.00	0.3200
MULCH	2	0.07407407	1.00	0.3719
SUBSTRAT*MULCH	2	0.07407407	1.00	0.3719
SEEDING	2	0.07407407	1.00	0.3719
SUBSTRAT*SEEDING	2	0.07407407	1.00	0.3719
SEEDING*MULCH	4	0.14814815	1.00	0.4119
SUBSTRAT*SEEDING*MULCH	4	0.14814815	1.00	0.4119

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	0.07407407	1.00	0.5000

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	0.07407407	1.00	0.5000

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	0.14814815	1.00	0.5000

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: BRO-TEC									
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.		
MODEL	17	0.93518519	0.05501089	0.65	0.6344	0.138167	549.9091		
ERROR	90	5.83333333	0.06481481		STD DEV		BRO-TEC MEAN		
CORRECTED TOTAL	107	6.76851852			0.25458754		0.04629630		
TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH									
SOURCE	DF	ANOVA SS	F VALUE	PR > F					
SUBSTRAT	1	0.08333333	1.29	0.2599					
MULCH	2	0.07407407	0.57	0.5668					
SUBSTRAT*MULCH	2	0.00000000	0.00	1.0000					
SEEDING	2	0.01851852	0.14	0.8671					
SUBSTRAT*SEEDING	2	0.05555556	0.43	0.6528					
SEEDING*MULCH	4	0.25925926	1.00	0.4119					
SUBSTRAT*SEEDING*MULCH	4	0.44646464	1.71	0.1537					

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM									
SOURCE	DF	ANOVA SS	F VALUE	PR > F					
MULCH	2	0.07407407							

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM									
SOURCE	DF	ANOVA SS	F VALUE	PR > F					
SEEDING	2	0.01851852	0.33	0.7500					

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM									
SOURCE	DF	ANOVA SS	F VALUE	PR > F					
SEEDING*MULCH	4	0.25925926	0.58	0.6928					

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
MODEL	17	21.33490741	1.25499455	1.89	0.0291	0.262821	350.8574
ERROR	90	59.84166667	0.66490741		STD DEV		AGR_CRI MEAN
CORRECTED TOTAL	107	81.17657407			0.81541855		0.23240741

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	2.05564815	3.09	0.0821
MULCH	2	3.23351852	2.43	0.0937
SUBSTRAT*MULCH	2	3.51129630	2.64	0.0769
SEEDING	2	2.93351852	2.21	0.1161
SUBSTRAT*SEEDING	2	1.04462963	0.79	0.4590
SEEDING*MULCH	4	5.00037037	1.88	0.1208
SUBSTRAT*SEEDING*MULCH	4	3.55592593	1.34	0.2624

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	3.23351852	0.92	0.5206

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	2.93351852	2.81	0.2626

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	5.00037037	1.41	0.3746

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: UNK_GKA	SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
	MODEL	17	0.15740761	0.00925926	1.00	0.4661	0.158879	1039.2305
	ERROR	50	0.43333333	0.00925926		STD DEV		UNK_GKA MEAN
	CORRECTED TOTAL	107	0.99074074			0.09622504		0.00925926

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	0.00925926	1.00	0.3200
MULCH	2	0.01851852	1.00	0.3719
SUBSTRAT*MULCH	2	0.01851852	1.00	0.3719
SEEDING	2	0.01851852	1.00	0.3719
SUBSTRAT*SEEDING	2	0.01851852	1.00	0.3719
SEEDING*MULCH	4	0.03703704	1.00	0.4119
SUBSTRAT*SEEDING*MULCH	4	0.03703704	1.00	0.4119

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	0.01851852	1.00	0.5000

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	0.01851852	1.00	0.5000

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	0.03703704	1.00	0.5000

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE = AST_TEG						
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	C.V.
MODEL	17	3.93510519	0.23148148	0.97	0.4994	406.0489
ERROR	90	21.50000000	0.23888889		STD DEV	AST_TEG MEAN
CORRECTED TOTAL	107	25.43510519			0.40876261	0.12037037
TESTS OF HYPOTHESES USING THE ANOVA SS FOR SUBSTRAT*MULCH						
SOURCE	DF	ANOVA SS	F VALUE	PR > F		
SUBSTRAT	1	0.00925926	0.04	0.8454		
MULCH	2	0.79629630	1.67	0.1947		
SUBSTRAT*MULCH	2	1.68518519	3.53	0.0335		
SEEDING	2	0.12962963	0.27	0.7630		
SUBSTRAT*SEEDING	2	0.35185185	0.74	0.4817		
SEEDING*MULCH	4	0.75925926	0.79	0.5318		
SUBSTRAT*SEEDING*MULCH	4	0.20370370	0.21	0.9305		
TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM						
SOURCE	DF	ANOVA SS	F VALUE	PR > F		
MULCH	2	0.79629630	0.47	0.6791		
TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM						
SOURCE	DF	ANOVA SS	F VALUE	PR > F		
SEEDING	2	0.12962963	0.37	0.7308		
TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM						
SOURCE	DF	ANOVA SS	F VALUE	PR > F		
SEEDING*MULCH	4	0.75925926	3.73	0.1153		

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: SAL_KAL	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
SOURCE	17	24.43333333	1.43725490	1.74	0.0490	0.247635	240.4041
MODEL	90	74.23333333	0.82481481		STD DEV		SAL_KAL MEAN
ERROR	107	98.66666667			0.90819316		0.37777778
CORRECTED TOTAL							
SOURCE	DF	ANOVA SS	F VALUE	PR > F			
SUBSTRAT	1	0.00037037	0.00	0.9831			
MULCH	2	3.74888889	2.27	0.1089			
SUBSTRAT*MULCH	2	1.38962963	0.84	0.4340			
SEEDING	2	13.25388889	8.03	0.0006			
SUBSTRAT*SEEDING	2	0.17240741	0.10	0.9009			
SEEDING*MULCH	4	4.11222222	1.25	0.2971			
SUBSTRAT*SEEDING*MULCH	4	1.75592593	0.53	0.7124			

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	3.74888889	2.70	0.2704

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	13.25388889	76.88	0.0128

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	4.11222222	2.34	0.2150

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSE REVEGETATION SITE R₃.

DEPENDENT VARIABLE: PHY-PLU

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
MODEL	17	1.36829630	0.08037037	1.01	0.4563	0.160120	411.8408
ERROR	90	7.16866667	0.07962963		STD DEV		PHY_FLD MEAN
CORRECTED TOTAL	107	8.53290296			0.28218722		0.06851852

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SUBSTRAT	1	0.23148148	2.91	0.0916
MULCH	2	0.02296296	0.14	0.8659
SUBSTRAT*MULCH	2	0.12962963	0.81	0.4463
SEEDING	2	0.11796296	0.74	0.4797
SUBSTRAT*SEEDING	2	0.01351852	0.08	0.9187
SEEDING*MULCH	4	0.49037037	1.54	0.1975
SUBSTRAT*SEEDING*MULCH	4	0.36037037	1.13	0.3468

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	0.02296296	0.18	0.8495

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	0.11796296	8.73	0.1028

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	0.49037037	1.36	0.3863

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: CRY-SEK									
SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.		
MODEL	17	1.00000000	0.05882353	0.79	0.6959	0.130435	489.8979		
ERROR	90	6.66666667	0.07407407		STD DEV		CRY-SEK MEAN		
CORRECTED TOTAL	107	7.66666667			0.27216553		0.05555556		
SOURCE	DF	ANOVA SS	F VALUE	PR > F					
SUBSTRAT	1	0.33333333	4.50	0.0366					
MULCH	2	0.05555556	0.37	0.6884					
SUBSTRAT*MULCH	2	0.05555556	0.38	0.6884					
SEEDING	2	0.22222222	1.50	0.2287					
SUBSTRAT*SEEDING	2	0.22222222	1.50	0.2287					
SEEDING*MULCH	4	0.05555556	0.19	0.9444					
SUBSTRAT*SEEDING*MULCH	4	0.05555556	0.19	0.9444					

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
MULCH	2	0.05555556	1.00	0.5000

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING	2	0.22222222	1.00	0.5000

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANOVA SS	F VALUE	PR > F
SEEDING*MULCH	4	0.05555556	1.00	0.5000

APPENDIX B-3. AN ANALYSIS OF VARIANCE FOR PERCENT COVER
AT THE RBOSP REVEGETATION SITE R₃.

DEPENDENT VARIABLE: UNK_FOR

SOURCE	DF	SUM OF SQUARES	MEAN SQUARE	F VALUE	PR > F	R-SQUARE	C.V.
MODEL	17	0.7500000	0.04411765	0.95	0.5170	0.152542	774.5967
ERROR	90	4.16666667	0.04629630		STD DEV		UNK_FOR MEAN
CORRECTED TOTAL	107	4.91666667			0.21516574		0.02777778

SOURCE	DF	ANGVA SS	F VALUE	PR > F
SUBSTRAT	1	0.08333333	1.80	0.1831
MULCH	2	0.05555556	0.60	0.5510
SUBSTRAT*MULCH	2	0.05555556	0.60	0.5510
SEEDING	2	0.16666667	1.80	0.1712
SUBSTRAT*SEEDING	2	0.16666667	1.80	0.1712
SEEDING*MULCH	4	0.11111111	0.60	0.6636
SUBSTRAT*SEEDING*MULCH	4	0.11111111	0.60	0.6636

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*MULCH AS AN ERROR TERM

SOURCE	DF	ANGVA SS	F VALUE	PR > F
MULCH	2	0.05555556	1.00	0.5000

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING AS AN ERROR TERM

SOURCE	DF	ANGVA SS	F VALUE	PR > F
SEEDING	2	0.16666667	1.00	0.5000

TESTS OF HYPOTHESES USING THE ANOVA MS FOR SUBSTRAT*SEEDING*MULCH AS AN ERROR TERM

SOURCE	DF	ANGVA SS	F VALUE	PR > F
SEEDING*MULCH	4	0.11111111	1.00	0.5000

APPENDIX B-4. HEIGHT AND DIAMETER (Inches) OF CONTAINERIZED SEEDLINGS
AT THE RBOSC REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER
OF 1978.

APPENDIX B-4 . SUMMARY OF AVERAGE HEIGHT (inches) AND AVERAGE DIAMETER (inches) OF THIRTEEN CONTAINERIZED PLANT SPECIES ON RBOSC REVEGETATION PLOT R₃ DURING JULY AND SEPTEMBER, 1978.

	July						September					
	Control			Shale			Control			Shale		
	Sample Size	Height	Diameter	Sample Size	Height	Diameter	Sample Size	Height	Diameter	Sample Size	Height	Diameter
<u>Atriplex canescens</u>	56	18.6	13.2	55	18.6	13.0	56	22.3	13.6	55	21.8	16.0
<u>Eurotia lanata</u>	53	13.1	10.9	52	13.6	11.4	54	14.1	9.5	52	15.4	10.6
<u>Purshia tridentata</u>	45	4.3	4.1	36	2.9	3.5	45	3.3	3.1	34	3.0	2.9
<u>Pinus edulis</u>	2	2.0	1.5	6	1.3	1.0	1	1.0	1.0	2	1.0	1.0
<u>Cercocarpus montanus</u>	33	2.8	2.2	21	2.1	1.6	22	2.0	1.8	15	1.7	1.6
<u>Chrysothamnus nauseosus</u>	39	11.3	8.6	41	11.0	9.2	39	11.4	7.5	41	11.9	9.2
<u>Atriplex bonnevillensis</u>	15	11.7	9.6	17	13.7	10.1	15	13.3	9.9	17	14.2	10.7
<u>Artemisia tridentata</u>	16	11.7	8.3	17	9.7	6.9	16	11.6	7.5	17	15.9	6.2
<u>Kochia prostrata</u>	15	18.8	11.9	15	19.2	15.9	15	21.7	9.8	16	24.3	17.0
<u>Rhus trilobata</u>	11	4.6	2.8	12	4.4	2.8	9	3.8	2.1	11	4.0	2.1
<u>Atriplex gardneri</u>	6	6.0	2.8	3	1.0	2.0	5	2.0	2.4	5	1.2	1.8
<u>Camphorosma monosperma</u>	13	2.9	4.9	13	2.2	3.9	14	2.3	4.3	12	2.8	3.9
<u>Sphaeralcea coccinea</u>	12	10.0	5.3	13	9.4	9.4	11	9.1	3.4	13	7.5	3.9

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 1

Treatments: Substrate Shale

Mulch Hay

Seeding Intensity High

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	KOC PRO	17	10	29	28
2.	CHR NAU	10	6	12	7
3.	CAM MON	1*	1	1	2
4.	PUR TRI		Dead		Dead
5.	EUR LAN	10	4	13	5
6.	ATR BON	12	11	11	10
7.	CHR NAU	9	6	11	9
8.	EUR LAN	6	3	12	6
9.	PIN EDU		Dead		Dead
10.	CER MON	2	2	2	1
11.	CER MON	1	1	1	1
12.	ART TRI	8	6	8	5
13.	SPH COC	10	5	2	2*
14.	PUR TRI		Dead		Dead
15.	EUR LAN	7	6	7	8
16.	PIN EDU		Dead		Dead
17.	PUR TRI	2	1	3	1
18.	CHR NAU	6	3	6	3
19.	ATR CAN	13	5	14	7
20.	PIN EDU		Dead		Dead
21.	RHU TRI	1½	2	2	1*
22.	ATR GAR		Dead		Dead
23.	ATR CAN	14	8	18	9
24.	CER MON		Dead		Dead
25.	ATR CAN	12	6	13	7

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 2

Treatments: Substrate Shale

Mulch None

Seeding Intensity High

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	ATR CAN	13	5	21	12
2.	SPH COC	11	2	10	2
3.	PIN EDU	Dead		Dead	
4.	CER MON	1*	1	1	1
5.	EUR LAN	14	6	13	8
6.	PIN EDU	Dead		Dead	
7.	CAM MON	3	3	4	3
8.	CER MON	Dead		Dead	
9.	RHU TRI	Dead		Dead	
10.	EUR LAN	10	8	10	8
11.	PUR TRI	2*	2	2	3
12.	ATR CAN	10	6	13	11
13.	PIN EDU	1	1	Dead	
14.	ART TRI	7	4	7	4
15.	CHR NAU	7	6	7	7*
16.	KOC PRO	19	11	19	25
17.	EUR LAN	10	7	6	7
18.	PUR TRI	2½	1½	3	2
19.	ATR GAR	1*	2	1	2
20.	CHR NAU	8	6	9	8
21.	ATR BON	7	4	7	5
22.	ATR CAN	16	6	17	7
23.	PUR TRI	3	2	2	1
24.	CHR NAU	Dead		Dead	
25.	CER MON	Dead		Dead	

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 3

Treatments: Substrate Shale

Mulch Hydromulch

Seeding Intensity High

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	CHR NAU		Dead		Dead
2.	ATR CAN	21	7	24	11
3.	CER MON	5	1		Dead
4.	PIN EDU		Dead		Dead
5.	PUR TRI		Dead		Dead
6.	PUR TRI	2*	2	3	2
7.	ATR CAN	19	14	22	17
8.	CER MON	2*	2		Dead
9.	CAM MON	3	5	4	5
10.	PIN EDU		Dead		Dead
11.	EUR LAN	12	9	16	9
12.	ATR CAN	16	15	26	18
13.	RHU TRI		Dead		Dead
14.	CHR NAU	8	5	9	7
15.	ART TRI	8	7	9	7
16.	EUR LAN	7	6	9	7
17.	EUR LAN	8	6	10	9
18.	PIN EDU		Dead		Dead
19.	ATR GAR	1*	3	1	4
20.	KOC PRO	9	11	26	12
21.	SPH COC	10	4	1	2*
22.	ATR BON	13	11	17	15
23.	CHR NAU	11	6	12	6
24.	EUR LAN	12	6	10	7
25.	CER MON		Dead		Dead

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 4

Treatments: Substrate No Shale

Mulch None

Seeding Intensity High

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	EUR LAN	10	7	11	7
2.	KOC PRO	9	7	4	8
3.	ATR CAN	9*	6	12	7
4.	PUR TRI	2*	2	2	2
5.	CAM MON	1½	4	1	6
6.	PUR TRI	2	1	2	2
7.	CHR NAU	6	4	6	3
8.	CHR NAU	8*	4	7	4
9.	ATR CAN	17*	9	14	10
10.	EUR LAN	11	6	11	6
11.	CER MON	1½	1	Dead	
12.	PUR TRI	3	2	Dead	
13.	PIN EDU		Dead	Dead	
14.	SPH COC	11	3	12	3
15.	ATR GAR		Dead	Dead	
16.	PIN EDU		Dead	Dead	
17.	RHU TRI		Dead	Dead	
18.	ATR CAN	16*	5	20	7
19.	ATR BON	8	7	9	7
20.	ART TRI	6	5	7	5
21.	ATR CAN	11	7	17	9
22.	CHR NAU		Dead	Dead	
23.	PIN EDU		Dead	Dead	
24.	CER MON	1	½	Dead	
25.	CER MON		Dead	Dead	

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER, 1978.

Plot No. 5

Treatments: Substrate No Shale

Mulch Hydromulch

Seeding Intensity High

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	ATR CAN	12	6	14	6
2.	KOC PRO	5	7	7	8
3.	PUR TRI	4	1	4	1
4.	EUR LAN	8	6	7	6
5.	CER MON	2	1		Dead
6.	PIN EDU		Dead		Dead
7.	ATR GAR		Dead		Dead
8.	EUR LAN	8	3	7	4
9.	EUR LAN	-	-	12	5
10.	CHR NAU	8	3	8	4
11.	SPH COC	3	2	2	2*
12.	ART TRI	12	5	12	7
13.	ATR CAN	14	9	14	10
14.	ATR BON	6*	6	7	6
15.	ATR CAN	14	8	19	11
16.	PUR TRI	4*	2	4	2*
17.	PIN EDU		Dead		Dead
18.	EUR LAN	8	4	8	4
19.	CER MON	1	1		Dead
20.	PUR TRI		Dead		Dead
21.	RHU TRI	6*	2	4	2
22.	PIN EDU		Dead		Dead
23.	CHR NAU	7	5	9	5
24.	CAM MON	3	5	3	6
25.	CHR NAU	8	5	8	5

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER, 1978.

Plot No. 6

Treatments: Substrate No Shale

Mulch Hay

Seeding Intensity High

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	CHR NAU	11	7	10	7
2.	PUR TRI		Dead		Dead
3.	CHR NAU		Dead		Dead
4.	PUR TRI		Dead		Dead
5.	CER MON		Dead		Dead
6.	PIN EDU		Dead		Dead
7.	ATR BON	6	4	8	4
8.	PIN EDU		Dead		Dead
9.	EUR LAN	16	8	18	8
10.	SPH COC		Dead		Dead
11.	CAM MON	3	4	2	3
12.	CER MON		Dead		Dead
13.	ATR CAN	13	7	17	9
14.	PIN EDU		Dead		Dead
15.	EUR LAN		Dead		Dead
16.	PUR TRI	5	6	5	3
17.	ART TRI	10	7	11	8
18.	RHU TRI	6*	3	3	3
19.	CER MON		Dead		Dead
20.	ATR GAR	2	3	2	3
21.	KOC PRO	18	10	30	12
22.	ATR CAN	19	12	28	20
23.	CHR NAU	11	7	14	11
24.	EUR LAN	10	8	12	9
25.	ATR CAN	22	21	24	26

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 7

Treatments: Substrate Shale

Mulch None

Seeding Intensity High

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	CER MON		Dead		Dead
2.	ATR CAN	15	20	23	16
3.	PUR TRI	2*	7		Dead
4.	PIN EDU		Dead		Dead
5.	KOC PRO	24	15	33	21
6.	EUR LAN	12*	21	11	20
7.	ATR GAR		Dead		Dead
8.	RHU TRI		Dead		Dead
9.	CER MON		Dead		Dead
10.	EUR LAN	18	15	22	15
11.	ATR CAN	18	15½	22	20
12.	SPH COC	16	11	7*	3*
13.	PUR TRI	4*	5	5	4
14.	PUR TRI	2	4	3	5
15.	ART TRI	9	7	10	8
16.	CAM MON	1	3	1	3
17.	CER MON	4	1		Dead
18.	CHR NAU	8	5	8	4
19.	EUR LAN	10	7	12	8
20.	PIN EDU		Dead		Dead
21.	ATR BON	8	7	8	6
22.	ATR CAN	12	6	14	7
23.	PIN EDU	1	1	1	1
24.	CHR NAU	9	9	10	8
25.	CHR NAU	8	6	11	8

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER, 1978.

Plot No. 8

Treatments: Substrate Shale

Mulch Hydromulch

Seeding Intensity High

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	PIN EDU		Dead		Dead
2.	ATR CAN	17	12	24	20
3.	RHU TRI	4*	2		Dead
4.	CER MON		Dead		Dead
5.	EUR LAN	19	17	25	22
6.	CHR NAU	14	10	17	12
7.	ATR CAN	21	20	28	20
8.	ATR CAN	12	16	15	18
9.	CHR NAU	11	15	13	18
10.	PUR TRI		Dead		Dead
11.	CER MON		Dead		Dead
12.	SPH COC	10	11	2	4*
13.	PUR TRI		Dead		Dead
14.	EUR LAN	18	16	28	20
15.	CHR NAU	13	11	17	15
16.	ATR BON	12	9	17	20
17.	ATR GAR		Dead		Dead
18.	PUR TRI		Dead		Dead
19.	ATR CAN	14	10	17	12
20.	ART TRI	6	4	7	4
21.	CAM MON	1*	2	1	2
22.	PIN EDU		Dead		Dead
23.	EUR LAN	7	7	8	8
24.	CER MON	2	1		Dead
25.	PIN EDU		Dead		Dead

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 9

Treatments: Substrate Shale

Mulch Hay

Seeding Intensity High

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	CAM MON	3	5	5	5
2.	ATR BON	18	15	17	18
3.	CER MON	1	1		Dead
4.	CER MON		Dead		Dead
5.	CHR NAU		Dead		Dead
6.	ATR CAN	24	17	26	20
7.	CHR NAU	10	11	15	13
8.	PUR TRI	3	5	3	5
9.	KOC PRO	24	13	36	23
10.	CER MON		Dead		Dead
11.	SPH COC*	20	10	16	8
12.	PIN EDU		Dead		Dead
13.	EUR LAN	12	12½	24	17
14.	ATR GAR		Dead		Dead
15.	PUR TRI*	4*	3	4	4
16.	PUR TRI	3	4	3	4
17.	ART TRI	8	6	9	6
18.	RHU TRI		Dead		Dead
19.	EUR LAN	15	11	18	14
20.	PIN EDU		Dead		Dead
21.	ATR CAN	16	9	23	15
22.	EUR LAN	10	8	13	9
23.	ATR CAN	20*	12	25	15
24.	CHR NAU	11	9	11	10
25.	PIN EDU		Dead		Dead

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 10

Treatments: Substrate No Shale

Mulch Hay

Seeding Intensity High

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	PUR TRI	3½	2	3	3
2.	PIN EDU		Dead		Dead
3.	PIN EDU		Dead		Dead
4.	PIN EDU		Dead		Dead
5.	KOC PRO		Dead		Dead
6.	ART TRI	13	9	14	10
7.	ATR CAN	21	18	25	21
8.	CER MON		Dead		Dead
9.	ATR GAR		Dead		Dead
10.	ATR BON	14	17	16	20
11.	PUR TRI	3*	3	3	3
12.	ATR CAN	24*	23	32	30
13.	CER MON		Dead		Dead
14.	PUR TRI	3	4	3	3
15.	CAM MON		Dead		Dead
16.	EUR LAN	14	18	18	9
17.	SPH COC		Dead		Dead
18.	ATR CAN	20	12	25	16
19.	CER MON		Dead		Dead
20.	EUR LAN	8	6	11	8
21.	RHU TRI	2*	1		Dead
22.	CHR NAU		Dead		Dead
23.	CHR NAU	9	7	9	7
24.	CHR NAU		Dead		Dead
25.	EUR LAN	10	7	12	9

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 11

Treatments: Substrate No Shale

Mulch Hydromulch

Seeding Intensity High

	<u>Plant Species</u>	<u>July</u>		<u>September</u>	
		<u>Height</u>	<u>Diameter</u>	<u>Height</u>	<u>Diameter</u>
1.	PUR TRI	2	1	2	2
2.	PIN EDU		Dead		Dead
3.	CER MON	2	2	2	3
4.	ATR CAN	21	11	26	16
5.	RHU TRI		Dead		Dead
6.	EUR LAN	15	14	18	17
7.	ART TRI	13	10 $\frac{1}{2}$	14	12
8.	PIN EDU		Dead		Dead
9.	PUR TRI	2	7	3	7
10.	ATR BON	8	8	8	10
11.	SPH COC	9	6	10	6
12.	CAM MON	1	8	1	10
13.	CER MON	5	3	1	1
14.	CER MON	3	2		Dead
15.	CHR NAU		Dead		Dead
16.	KOC PRO	20	13	20	16
17.	CHR NAU	9	8	9	9
18.	ATR CAN	15*	8	16	12
19.	ATR CAN	12*	12	16	13
20.	EUR LAN	9	7	9	8
21.	ATR GAR		Dead		Dead
22.	CHR NAU		Dead		Dead
23.	EUR LAN	10	7	10	7
24.	PUR TRI	3	1	2	2
25.	PIN EDU		Dead		Dead

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 12

Treatments: Substrate No Shale

Mulch None

Seeding Intensity High

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	CHR NAU	9	7	9	8
2.	CHR NAU	11	11	14	11
3.	CHR NAU	14	10	16	12
4.	PIN EDU	Dead		Dead	
5.	CER MON	3	4	2	3
6.	EUR LAN	17	18	24	17
7.	EUR LAN	18	15	19	16
8.	PUR TRI	1½	4	2	2
9.	PUR TRI	-	-	5	1
10.	PIN EDU	Dead		Dead	
11.	CER MON	3*	2	3	2
12.	SPH COC	9	4	8	2
13.	ATR CAN	19	11	24	16
14.	PUR TRI	Dead		Dead	
15.	ATR CAN	17*	12	25	20
16.	ATR CAN	21	16	23	15
17.	EUR LAN	13	19	12	17
18.	PIN EDU	Dead		Dead	
19.	KOC PRO	17	8	24	8
20.	CER MON	Dead		Dead	
21.	ATR GAR	2½	4	3	3
22.	ART TRI	7	6	6	6
23.	CAM MON	6	5	9	5
24.	ATR BON	13	9	18	8
25.	ATR CAN	11	8	19	8

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 13

Treatments: Substrate Shale

Mulch Hydromulch

Seeding Intensity Medium

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	ATR CAN		Dead		Dead
2.	EUR LAN	8	9	10	9
3.	ATR BON	17	14	18	13
4.	RHU TRI	7*	5	8	3
5.	CHR NAU	14	8	15	9
6.	ATR CAN	19*	10	20	10
7.	CER MON		Dead		Dead
8.	PUR TRI	-	-	3	1
9.	KOC PRO	20	21	29	14
10.	PIN EDU		Dead		Dead
11.	PUR TRI		Dead		Dead
12.	PIN EDU		Dead		Dead
13.	CHR NAU		Dead		Dead
14.	PIN EDU		Dead		Dead
15.	EUR LAN	16	15	18	14
16.	ATR CAN	24*	12	26	10
17.	CER MON	2	1		Dead
18.	SPH COC *	8	5	7	3
19.	ATR CAN	18	13	21	11
20.	EUR LAN	10	8	10	5
21.	CAM MON		Dead		Dead
22.	ART TRI		Dead		Dead
23.	CHR NAU		Dead		Dead
24.	CER MON	2	1	1	1
25.	PUR TRI		Dead		Dead

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 14

Treatments: Substrate Shale

Mulch Hay

Seeding Intensity Medium

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	CHR NAU	9	9	12	8
2.	ART TRI	14	9	14	5
3.	CER MON		Dead		Dead
4.	PUR TRI	1½	1½	1	1
5.	ATR CAN	19*	13	22	13
6.	PIN EDU		Dead		Dead
7.	CHR NAU		Dead		Dead
8.	PUR TRI		Dead		Dead
9.	SPH COC		Dead		Dead
10.	CER MON		Dead		Dead
11.	RHU TRI	2	1	1	1
12.	EUR LAN	14	12	16	10
13.	ATR BON	17	8	20	7
14.	CAM MON	1	2½	1	3
15.	PIN EDU		Dead		Dead
16.	ATR CAN	15*	10	20	8
17.	PIN EDU		Dead		Dead
18.	EUR LAN	9	8	10	6
19.	ATR GAR	-	-	2	1
20.	ATR CAN	19	12	23	10
21.	ATR CAN	8*	4	20	7
22.	CER MON		Dead		Dead
23.	PUR TRI		Dead		Dead
24.	KOC PRO		Dead		Dead
25.	CHR NAU	13	11	14	10

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 15

Treatments: Substrate Shale

Mulch None

Seeding Intensity Medium

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	PUR TRI	6	5	6	6
2.	ART TRI	12	8	14	7
3.	PUR TRI	Dead		Dead	
4.	PIN EDU	Dead		Dead	
5.	CER MON	Dead		Dead	
6.	RHU TRI	8	2	5	1
7.	EUR LAN	15	9	16	6
8.	ATR GAR	Dead		Dead	
9.	PIN EDU	Dead		Dead	
10.	CER MON	-	-	1	1
11.	KOC PRO	19	19	26	12
12.	CHR NAU	12	13	14	10
13.	CER MON	1	1	Dead	
14.	ATR CAN	19	18	20	15
15.	SPH COC	14	10	13	7
16.	ATR BON	14	7	15	7
17.	CHR NAU	10	6	11	6
18.	PIN EDU	Dead		Dead	
19.	ATR CAN	16	8	18	9
20.	PUR TRI	2	2	1	1
21.	AIR CAN	18	10	20	9
22.	EUR LAN	14	9	14	8
23.	EUR LAN	13	11	16	10
24.	CAM MON	3	6	2	5
25.	CHR NAU	10	9	10	8

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 16

Treatments: Substrate No Shale

Mulch Hay

Seeding Intensity Medium

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	ATR CAN	17	11	21	13
2.	EUR LAN	17	12	18	14
3.	CER MON	2½*	1	2	2
4.	KOC PRO	-	-	3	4
5.	CER MON	-	-	1	1
6.	CHR NAU	13	10	15	8
7.	RHU TRI	4	3	3*	2
8.	ATR CAN	7*	3	18	8
9.	PIN EDU		Dead		Dead
10.	ATR CAN	17*	14	22	15
11.	PIN EDU		Dead		Dead
12.	PIN EDU		Dead		Dead
13.	ATR GAR		Dead		Dead
14.	EUR LAN	6	8	5	7
15.	ART TRI	9	7	10	6
16.	CAM MON	-	-	1	2
17.	CHR NAU	11	6	15	7
18.	PUR TRI	4	3	3	2
19.	CHR NAU		Dead		Dead
20.	EUR LAN	11	7	12	7
21.	SPH COC	10	6	1	1
22.	PUR TRI	3	7	3	5
23.	CER MON	3	3	2	2
24.	PUR TRI	3	6	3	4
25.	EUR LAN	15	12	17	14

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 17

Treatments: Substrate No Shale

Mulch None

Seeding Intensity Medium

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	PIN EDU	2	2	1	1
2.	ATR CAN	24	16	23	14
3.	RHU TRI	5	3	4	1
4.	CER MON	3	4		Dead
5.	EUR LAN	13	15	11	13
6.	EUR LAN	12	10	12	7
7.	PIN EDU		Dead		Dead
8.	ATR BON	16	13	17	10
9.	CER MON		Dead		Dead
10.	CER MON		Dead		Dead
11.	PUR TRI	6	6	4	4
12.	CHR NAU	12	9	12	6
13.	CAM MON	2	5	1	4
14.	ATR CAN	19	13	22	10
15.	CHR NAU	12	10	12	9
16.	ATR CAN	12*	10	10	10
17.	PUR TRI	3*	4	3	3
18.	ATR GAR	2	3	2	2
19.	PIN EDU		Dead		Dead
20.	SPH COC	11	4	9	2
21.	KOC PRO	20	17	22	9
22.	ART TRI	13	7	11	4
23.	PUR TRI	2	2	2	1
24.	EUR LAN	11	13	13	12
25.	CHR NAU	9	11	8	9

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 18

Treatments: Substrate No Shale

Mulch Hay

Seeding Intensity Medium

	<u>Plant Species</u>	<u>July</u>		<u>September</u>	
		<u>Height</u>	<u>Diameter</u>	<u>Height</u>	<u>Diameter</u>
1.	CHR NAU	8	6	10	7
2.	ATR BON	18	17	20	18
3.	ATR CAN	24	22	30	20
4.	PIN EDU		Dead		Dead
5.	PIN EDU		Dead		Dead
6.	EUR LAN	15	15	21	15
7.	PIN EDU		Dead		Dead
8.	PUR TRI	6	7	6	5
9.	ATR GAR		Dead		Dead
10.	CER MON		Dead		Dead
11.	CER MON		Dead		Dead
12.	ATR CAN	26	19	31	17
13.	SPH COC		Dead		Dead
14.	CAM MON		Dead		Dead
15.	KOC PRO	22	13	33	11
16.	EUR LAN	11	8	12	6
17.	PUR TRI	4	4	3	3
18.	CER MON		Dead		Dead
19.	EUR LAN	7	6	9	4
20.	PUR TRI	4	5	3	4
21.	ART TRI		Dead		Dead
22.	ATR CAN	19	14	25	11
23.	CHR NAU	11	8	11	7
24.	RHU TRI		Dead		Dead
25.	CHR NAU		Dead		Dead

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 19

Treatments: Substrate Shale

Mulch None

Seeding Intensity Medium

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	PIN EDU		Dead		Dead
2.	EUR LAN	16	17	18	15
3.	ATR CAN	21	20	24	16
4.	CHR NAU	12	8	12	8
5.	PUR TRI	3*	5	4	5
6.	CER MON	1	1	1	1
7.	CAM MON		Dead		Dead
8.	PUR TRI	2	2	2	1
9.	SPH COC		Dead		Dead
10.	CER MON	3	2	3	2
11.	EUR LAN	13	14	14	12
12.	PUR TRI	2	2	2	1
13.	KOC PRO	28	22	32	17
14.	CER MON		Dead		Dead
15.	EUR LAN	22	15	20	14
16.	ATR CAN	21	16	21	13
17.	PIN EDU		Dead		Dead
18.	CHR NAU	12	9	11	8
19.	ART TRI	10	11	10	10
20.	ATR BON	16	13	13	11
21.	ATR GAR	-	-	1	1
22.	RHU TRI	2	2	2	1
23.	ATR CAN	16	15	16	11
24.	PIN EDU	1	1		Dead
25.	CHR NAU	12	10	14	9

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT: R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 20

Treatments: Substrate Shale

Mulch Hydromulch

Seeding Intensity Medium

Plant Species	July		September	
	Height	Diameter	Height	Diameter
1. CHR NAU		Dead		Dead
2. KOC PRO	28	23	27	15
3. ATR CAN	22	16	22	13
4. RHU TRI	6	4	4	4
5. CER MON	-	-	1	2
6. PIN EDU		Dead		Dead
7. ATR CAN	20	14	23	14
8. EUR LAN	17	15	18	10
9. ATR CAN	17	14	18	12
10. PUR TRI	3	6	3	4
11. EUR LAN	17	12	18	10
12. ART TRI	15	10	14	7
13. PIN EDU	3	1	1	1
14. SPH COC *	10	7	1*	2
15. EUR LAN	17	13	22	11
16. CHR NAU		Dead		Dead
17. ATR GAR		Dead		Dead
18. CHR NAU	5	2	4	2
19. ATR BON	5	4	4	4
20. CAM MON	3	6	3	5
21. PUR TRI	1	1		Dead
22. PIN EDU		Dead		Dead
23. PUR TRI	3	3	3	2
24. CER MON	2½	2	2	2
25. CER MON	2	1½	2	1

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 21

Treatments: Substrate Shale

Mulch Hay

Seeding Intensity Medium

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	PUR TRI	4	4	4	4
2.	PIN EDU		Dead		Dead
3.	EUR LAN	14	18	18	14
4.	CER MON		Dead		Dead
5.	CHR NAU		Dead		Dead
6.	PIN EDU		Dead		Dead
7.	RHU TRI	6	4	5	3
8.	CER MON		Dead		Dead
9.	CHR NAU	13	14	14	11
10.	ATR CAN	21	17	26	14
11.	SPH COC*	17	11	13*	6*
12.	ATR BON	17	12	21	16
13.	PUR TRI		Dead		Dead
14.	ATR GAR		Dead		Dead
15.	PUR TRI		Dead		Dead
16.	PIN EDU		Dead		Dead
17.	CHR NAU	14	12	16	9
18.	CAM MON		Dead		Dead
19.	ATR CAN	24	14	28	15
20.	EUR LAN		Dead		Dead
21.	KOC PRO	10	10	9	8
22.	CER MON	2	2	1	2
23.	ATR CAN	24	13	29	14
24.	ART TRI	11	8	11	7
25.	EUR LAN	12	6	12	5

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 22

Treatments: Substrate No Shale

Mulch Hydromulch

Seeding Intensity Medium

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	ATR BON	14	12	12	10
2.	RHU TRI	6	6	7	3
3.	ATR CAN	25	23	30	20
4.	CER MON	4	3	3	1
5.	ATR CAN	19	16	25	15
6.	PIN EDU		Dead		Dead
7.	ART TRI	10	8	10	7
8.	ATR GAR		Dead		Dead
9.	PIN EDU		Dead		Dead
10.	CHR NAU	14	11	15	11
11.	EUR LAN	16	16	15	13
12.	PUR TRI	4	4	3	3
13.	PUR TRI	4	5	3	4
14.	PUR TRI	5	8	5	7
15.	SPH COC	19	9	19	4*
16.	EUR LAN	13	7	15	6
17.	CHR NAU	10	7	11	5
18.	KOC PRO	21	11	21	8
19.	PIN EDU		Dead		Dead
20.	CER MON	2	1½	2	1
21.	CAM MON	2	6	1	3
22.	CHR NAU	12	8	12	6
23.	CER MON	2½	2	1	2
24.	EUR LAN	19	11	21	8
25.	ATR CAN	18	9	20	9

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 23

Treatments: Substrate No Shale

Mulch Hydromulch

Seeding Intensity Medium

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	PIN EDU		Dead		Dead
2.	CER MON	3	4		Dead
3.	EUR LAN	19	15	20	12
4.	RHU TRI	3	3	3	2
5.	ATR CAN	21	27	25	20
6.	EUR LAN	13	10	13	7
7.	EUR LAN	18	8	22	6
8.	SPH COC*	14	11	14	7*
9.	ART TRI	16	10	15	8
10.	PUR TRI	4	3	3	2
11.	PUR TRI	3	3	1*	1
12.	ATR BON		Dead		Dead
13.	PIN EDU		Dead		Dead
14.	ATR CAN	24	18	26	13
15.	CER MON	4	3	1	1
16.	ATR GAR	3	2		Dead
17.	CHR NAU	18	16	20	12
18.	CER MON	3	2	2	1
19.	CHR NAU	13	11	13	9
20.	CHR NAU	16	9	11	8
21.	CAM MON	4	5	4	3
22.	ATR CAN	26	12	28	8
23.	PIN EDU		Dead		Dead
24.	PUR TRI	6	3	4	3
25.	KOC PRO	20	13	27	9

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978. .8

Plot No. 25

Treatments: Substrate Shale

Mulch Hay

Seeding Intensity Low

	<u>Plant Species</u>	<u>July</u>		<u>September</u>	
		<u>Height</u>	<u>Diameter</u>	<u>Height</u>	<u>Diameter</u>
1.	EUR LAN	18	13	19	12
2.	EUR LAN	15	13	15	11
3.	ART TRI	12	7	14	8
4.	CHR NAU	15	16	14	13
5.	SPH COC	15	10	5*	4*
6.	PIN EDU		Dead		Dead
7.	PIN EDU		Dead		Dead
8.	ATR CAN	19	11	23	13
9.	RHU TRI	5	4	5	3
10.	CAM MON	2	5	2	3
11.	PUR TRI	4	6	4	4
12.	ATR CAN	26	24	34	21
13.	PUR TRI	5	4	5	3
14.	CER MON		Dead		Dead
15.	ATR GAR		Dead		Dead
16.	ATR CAN	22	14	26	17
17.	KOC PRO		Dead	-	-
18.	EUR LAN		Dead		Dead
19.	CHR NAU		Dead		Dead
20.	CER MON		Dead		Dead
21.	ATR BOX	18	13	15	10
22.	CER MON		Dead		Dead
23.	PIN EDU		Dead		Dead
24.	CHR NAU	14	14	16	12
25.	PUR TRI	5	5	3	4

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 26

Treatments: Substrate Shale

Mulch Hay

Seeding Intensity Low

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	KOC PRO	13	13	17	10
2.	ATR GAR	1	1	Dead	
3.	PIN EDU	Dead		Dead	
4.	EUR LAN	11	10	11	10
5.	PIN EDU	Dead		Dead	
6.	CER MON	Dead		Dead	
7.	EUR LAN	12	9	12	10
8.	CHR NAU	Dead		Dead	
9.	ATR CAN	17	11	20	9
10.	PIN EDU	Dead		Dead	
11.	ATR BON	13	9	14	8
12.	PUR TRI	Dead		Dead	
13.	PUR TRI	2	1	1	2
14.	RHU TRI	2½	2	3	1
15.	ATR CAN	21*	12	22	12
16.	CER MON	Dead		Dead	
17.	CAM MON	Dead		Dead	
18.	ART TRI	8	8	10	6
19.	EUR LAN	11	8	12	7
20.	CHR NAU	9	9	12	10
21.	CER MON	Dead		Dead	
22.	PUR TRI	4	4	3	4
23.	ATR CAN	23	12	28	14
24.	SPH COC	Dead		Dead	
25.	CHR NAU	13	8	13	8

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 27

Treatments: Substrate Shale

Mulch None

Seeding Intensity Low

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	EUR LAN	17	14	19	11
2.	EUR LAN	14	18	14	16
3.	KOC PRO	29	26	32	26
4.	CHR NAU	16	13	20	12
5.	ART TRI	13	7	13	6
6.	PIN EDU		Dead		Dead
7.	PIN EDU		Dead		Dead
8.	ATR CAN	14*	12	18	12
9.	CAM MON	6	7	9	7
10.	ATR GAR		Dead		Dead
11.	PUR TRI	2	3	2	3
12.	ATR CAN	13*	7	14	7
13.	PUR TRI	4	4	4	4
14.	CER MON	3	2	3	3
15.	ATR BON	19	15	21	16
16.	ATR CAN	17	18	19	14
17.	RHU TRI		Dead		Dead
18.	EUR LAN	19	13	20	11
19.	CHR NAU	9	12	8	10
20.	CER MON		Dead		Dead
21.	SPH COC *	15	7	13	3
22.	CER MON	1	1		Dead
23.	PIN EDU	1	1		Dead
24.	CHR NAU	10	7	12	7
25.	PUR TRI	2	2	2	1

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 28

Treatments: Substrate No Shale

Mulch Hydromulch

Seeding Intensity Low

	<u>Plant Species</u>	<u>July</u>		<u>September</u>	
		<u>Height</u>	<u>Diameter</u>	<u>Height</u>	<u>Diameter</u>
1.	PUR TRI	4	5	4	4
2.	ATR CAN	23	14	28	15
3.	EUR LAN	17	12	20	11
4.	CHR NAU	15	12	15	10
5.	ATR GAR	Dead		Dead	
6.	RHU TRI	3½	1½	3	1
7.	ART TRI	13	7	12	8
8.	PIN EDU	Dead		Dead	
9.	CER MON	1	1	1	1
10.	KOC PRO	21	10	32	11
11.	CAM MON	1	4	1	4
12.	SPH COC*	8	4	6	3
13.	EUR LAN	9	6	16	10
14.	PUR TRI	2½	2	2	2
15.	PIN EDU	Dead		Dead	
16.	PUR TRI	6	7	5	5
17.	ATR CAN	18*	9	19	12
18.	ATR CAN	21	11	24	9
19.	PIN EDU	Dead		Dead	
20.	CHR NAU	9	8	9	9
21.	ATR BON	14	11	15	12
22.	EUR LAN	16	13	19	11
23.	CER MON	5	2	5	2
24.	CER MON	5	4	4	4
25.	CHR NAU	17	15	18	12

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 29

Treatments: Substrate No Shale

Mulch Hydromulch

Seeding Intensity Low

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	EUR LAN	20	18	18	13
2.	PUR TRI	7	10	6	7
3.	ATR CAN	24	24	31	20
4.	EUR LAN	15	19	18	12
5.	CER MON	3	3	2	3
6.	CER MON	1	1	1	1
7.	CHR NAU	16	13	19	12
8.	CER MON	3	1	Dead	
9.	ATR GAR		Dead	Dead	
10.	PIN EDU		Dead	Dead	
11.	PUR TRI	4	4	3	5
12.	CAM MON		Dead	Dead	
13.	ATR CAN	23	18	26	16
14.	CHR NAU		Dead	Dead	
15.	PIN EDU		Dead	Dead	
16.	SPH COC		Dead	Dead	
17.	PIN EDU		Dead	Dead	
18.	ATR CAN	25	17	27	15
19.	ATR BON		Dead	Dead	
20.	PUR TRI		Dead	Dead	
21.	RHU TRI	4	3	2	2
22.	KOC PRO	25	22	30	17
23.	EUR LAN	18	15	18	12
24.	ART TRI	16	13	16	9
25.	CER MON	3	3	Dead	

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 30

Treatments: Substrate No Shale

Mulch None

Seeding Intensity Low

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	ART TRI	13	9	11	7
2.	CER MON		Dead		Dead
3.	ATR CAN	25	16	26	14
4.	CAM MON		Dead		Dead
5.	EUR LAN	22	19	27	16
6.	CHR NAU	9	7	9	7
7.	PIN EDU		Dead		Dead
8.	CHR NAU	12	9	11	7
9.	SPH COC*	9	3	8	3
10.	RHU TRI		Dead		Dead
11.	EUR LAN	13	8	12	7
12.	CER MON		Dead		Dead
13.	PUR TRI	3	4	3	4
14.	PIN EDU		Dead		Dead
15.	EUR LAN	13	11	12	9
16.	PUR TRI	3	3	3	3
17.	PUR TRI	3	5	3	4
18.	KOC PRO	17	10	26	10
19.	ATR CAN	15	16	10	12
20.	ATR BON	14	9	12	9
21.	PIN EDU		Dead		Dead
22.	CER MON		Dead		Dead
23.	CHR NAU	11	10	11	8
24.	ATR GAR	1½	2	1	2
25.	ATR CAN	24	22	24	19

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 31

Treatments: Substrate Shale

Mulch None

Seeding Intensity Low

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	PUR TRI	3	5	3	4
2.	PUR TRI	-	-	1	1
3.	PIN EDU	Dead		Dead	
4.	PIN EDU	Dead		Dead	
5.	PIN EDU	Dead		Dead	
6.	EUR LAN	18	16	17	15
7.	CHR NAU	12	9	11	9
8.	ATR GAR	Dead		Dead	
9.	CAM MON	1	4	1	4
10.	ATR CAN	14	13	15	10
11.	ART TRI	8	7	6	6
12.	ATR CAN	21	12	18	9
13.	CER MON	Dead		Dead	
14.	RHU TRI	4	2	4	2
15.	SPH COC*	18	9	13	5
16.	CER MON	2	2	2	1
17.	EUR LAN	18	14	18	12
18.	PUR TRI	2	2	Dead	
19.	ATR BON	12	9	10	9
20.	EUR LAN	15	12½	15	11
21.	CER MON	Dead		Dead	
22.	ATR CAN	23	20	22	13
23.	CHR NAU	10	8	10	7
24.	KOC PRO	23	17	25	17
25.	CHR NAU	Dead		Dead	

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 32

Treatments: Substrate Shale

Mulch Hydromulch

Seeding Intensity Low

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	ATR CAN	32	21	33	20
2.	KOC PRO		-	7*	5*
3.	ATR CAN	23	14	27	13
4.	CER MON		Dead		Dead
5.	PIN EDU		Dead		Dead
6.	ATR GAR		Dead		Dead
7.	ATR CAN	22	17	24	17
8.	ATR BON	15	10	13	7
9.	CER MON	2½	2	2	2
10.	CHR NAU		Dead		Dead
11.	SPH COC		Dead		Dead
12.	EUR LAN	20	29	20	7
13.	PIN EDU		Dead		Dead
14.	PUR TRI	4	4	4	4
15.	CER MON	3	2½	3	3
16.	RHU TRI		Dead		Dead
17.	EUR LAN	13	11	14	7
18.	PIN EDU		Dead		Dead
19.	PUR TRI	3	5	3	3
20.	CHR NAU	15	9	14	9
21.	EUR LAN	10	5	17	12
22.	PUR TRI	3	2½	3	3
23.	ART TRI	9	7	9	6
24.	CAM MON		Dead		Dead
25.	CHR NAU	13	8	11	7

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 33

Treatments: Substrate Shale

Mulch Hydromulch

Seeding Intensity Low

	<u>Plant Species</u>	<u>July</u>		<u>September</u>	
		<u>Height</u>	<u>Diameter</u>	<u>Height</u>	<u>Diameter</u>
1.	EUR LAN	18	15	23	13
2.	CER MON		Dead		Dead
3.	PIN EDU		Dead		Dead
4.	RHU TRI	5	3	5	3
5.	EUR LAN	23	17½	28	14
6.	PIN EDU		Dead		Dead
7.	CER MON		Dead		Dead
8.	ATR CAN	22	20	27	15
9.	CER MON	-	-	1	1
10.	ATR CAN	27	20	28	18
11.	PUR TRI	3*	3	4	3
12.	CHR NAU	12	15	10	11
13.	CAM MON	1	1		Dead
14.	SPH COC		Dead		Dead
15.	ATR GAR		Dead		Dead
16.	KOC PRO	23	12	26	11
17.	CHR NAU	11	9	12	8
18.	PUR TRI	2	4	2	3
19.	CHR NAU	11	17	11	11
20.	ATR BON		Dead		Dead
21.	ART TRI	7	5	6	4
22.	PUR TRI		Dead		Dead
23.	EUR LAN	14	8	13	7
24.	PIN EDU	1	1		Dead
25.	ATR CAN	14*	14	14	12

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 34

Treatments: Substrate No Shale

Mulch None

Seeding Intensity Low

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	PUR TRI	5	8	6	7
2.	CHR NAU	13	13	10	11
3.	PIN EDU	Dead		Dead	
4.	ATR BON	13	10	17	9
5.	KOC PRO	28	19	29	12
6.	PIN EDU	2	1	Dead	
7.	SPH COC*	11	7	11	4
8.	CHR NAU	11	6	11	5
9.	ATR CAN	14	7	15	8
10.	ATR CAN	20	12	25	12
11.	EUR LAN	17	21	18	16
12.	CHR NAU	15	15	15	13
13.	ATR GAR	Dead		Dead	
14.	EUR LAN	13	12	13	13
15.	CER MON	2	2	2	1
16.	PUR TRI	Dead		Dead	
17.	PIN EDU	Dead		Dead	
18.	ATR CAN	10	7	13	8
19.	CER MON	3	2	3	2
20.	CAM MON	5	8	3	6
21.	ART TRI	10	10	10	8
22.	RHU TRI	6	2	5	2
23.	PUR TRI	2	3½	3	3
24.	EUR LAN	11	12	11	9
25.	CER MON	2	1½	2	1

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 35

Treatments: Substrate No Shale

Mulch Hay

Seeding Intensity Low

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	ATR CAN	20	21	23	20
2.	ATR GAR	3	3	2	2
3.	PUR TRI	5	6	4	4
4.	CHR NAU	15	6	17	5
5.	ATR CAN	18	10	22	11
6.	EUR LAN	16	8	17	8
7.	PIN EDU		Dead		Dead
8.	PUR TRI		Dead		Dead
9.	ART TRI	10	7	9	6
10.	EUR LAN	15	10	12	7
11.	CHR NAU	8	4	8	3
12.	PUR TRI	5	4	5	3
13.	PIN EDU		Dead		Dead
14.	ATR CAN	18*	4	23	4
15.	SPH COC		Dead		Dead
16.	KOC PRO	19	10	21	6
17.	PIN EDU		Dead		Dead
18.	CER MON	2	2	1	2
19.	ATR BON	9	7	10	5
20.	CAM MON	5	3	2	2
21.	CER MON	2	2		Dead
22.	CHR NAU	13	8	11	8
23.	CER MON	2	2	2	2
24.	RHU TRI	5	3	4	3
25.	EUR LAN	13	12	14	8

* Browsed

APPENDIX B-4. HEIGHT AND DIAMETER (INCHES) OF CONTAINERIZED SEEDLINGS AT THE RBOSP REVEGETATION PLOT R₃ IN JULY AND SEPTEMBER OF 1978.

Plot No. 36

Treatments: Substrate No Shale

Mulch Hay

Seeding Intensity Low

	Plant Species	July		September	
		Height	Diameter	Height	Diameter
1.	CER MON		Dead		Dead
2.	ART TRI		Dead		Dead
3.	CER MON		Dead		Dead
4.	ATR CAN	29	25	33	21
5.	RHU TRI		Dead		Dead
6.	CHR NAU	11	9	10	7
7.	ATR CAN	21	13	27	16
8.	CHR NAU	-	-	17	12
9.	EUR LAN	13	11	13	9
10.	EUR LAN		Dead		Dead
11.	EUR LAN	13	11	13	8
12.	CAM MON	1½	2	1	3
13.	KOC PRO		Dead		Dead
14.	PIN EDU		Dead		Dead
15.	PIN EDU		Dead		Dead
16.	ATR BON	16	9	23	16
17.	CHR NAU		Dead		Dead
18.	SPH COC	6	4		Dead
19.	PUR TRI	5	6	4	4
20.	ATR CAN	16	10	26	13
21.	ATR GAR		Dead		Dead
22.	PIN EDU		Dead		Dead
23.	PUR TRI	4	4	2	3
24.	CER MON		Dead		Dead
25.	PUR TRI	2	2	4	3

* Browsed

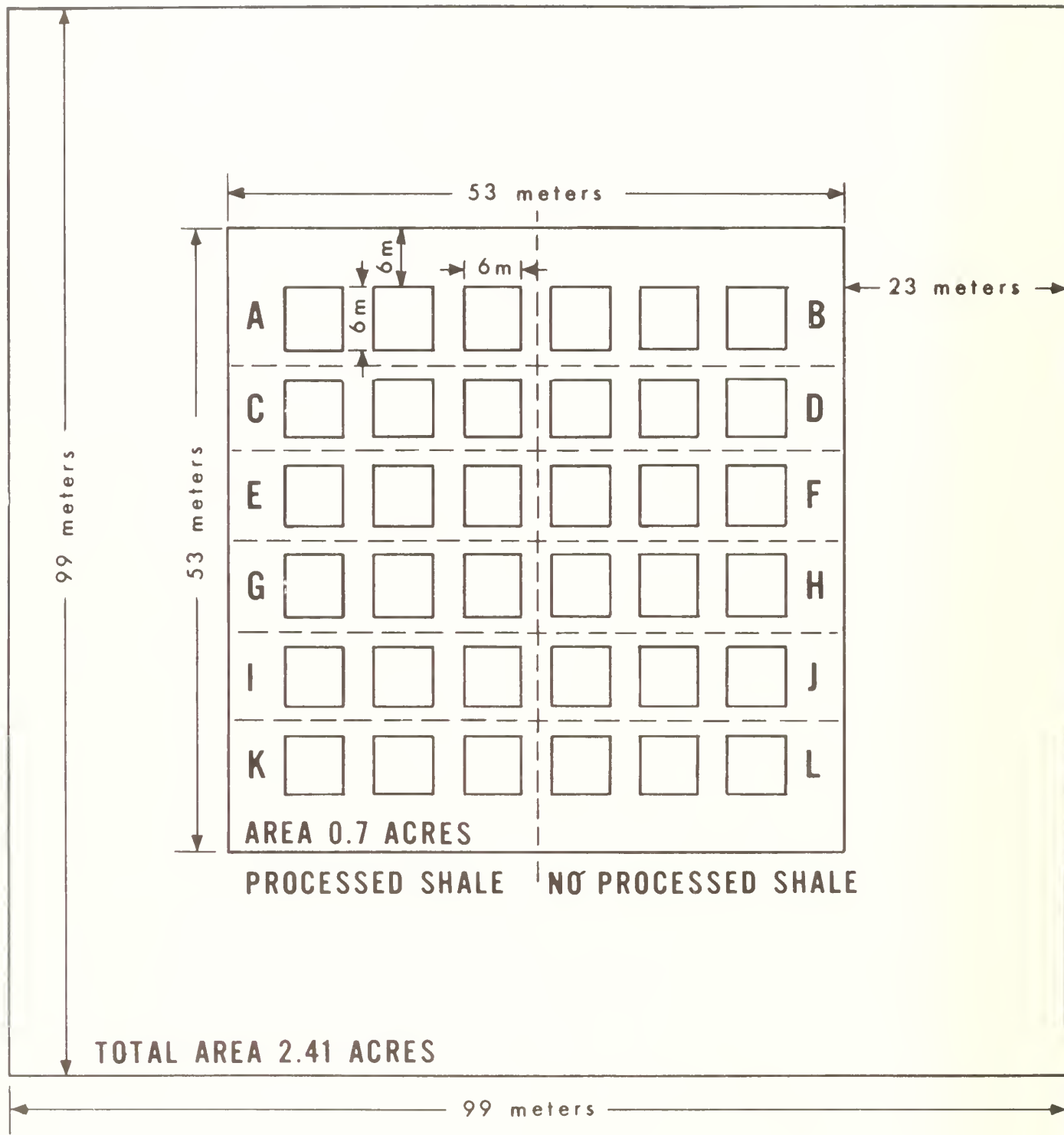
APPENDIX B-5. ELECTRICAL CONDUCTIVITY DATA OF THE SOILS SAMPLED AT
RBOSC REVEGETATION SITE R₃.

APPENDIX B-5. ELECTRICAL CONDUCTIVITY¹ OF SOILS SAMPLED AT THREE DEPTHS (0, 25, 50 cm) AT RBOSC REVEGETATION PLOT R₃ DURING FALL OF 1976, 1977, AND 1978.

Location ²	Depth								
	0 cm			25 cm			50 cm		
	1976	1977	1978	1976	1977	1978	1976	1977	1978
A	.32	.15	.23	.54	.34	.35	.50	.57	.55
B	.25	.20	.24	.34	.30	.28	.66	.78	.65
C	.29	.21	.28	.53	.30	.31	.56	.71	.56
D	.29	.25	.23	.43	.30	.29	.65	.60	.44
E	.29	.20	.23	.46	.25	.26	.59	.62	.33
F	.25	.20	.24	.28	.25	.25	.65	.46	.39
G	.24	.23	.28	.25	.23	.24	.41	.35	.31
H	.25	.20	.38	.26	.22	.25	.39	.58	.30
I	.26	.20	.19	.25	.22	.26	.34	.35	.32
J	.27	.17	.23	.28	.25	.28	.47	.50	.40
K	.25	.20	.35	.23	.23	.27	.31	.42	.32
L	.25	.20	.35	.27	.23	.28	.54	.49	.32

¹Ec equals $\mu\text{mhos/cm}$ of a 1:2 soil-water extract.

²See Attached Figure for Sampling Locations.



GENERALIZED PLOT LAYOUT FOR REVEGETATION PLOT (R₃) ON OIL SHALE TRACT C-a, RIO BLANCO COUNTY, COLORADO (INITIATED IN 1976).

Form 1279-3
(June 1984)

BORROWER

DATE LOANED	BORROWER

USDI - ELM

