



OGMCOAL DNR <ogmcoal@utah.gov>

Fwd: 015015 Emery Reclamation Study Seed Mixture

1 message

Priscilla Burton <priscillaburton@utah.gov>
To: OGMCOAL DNR <ogmcoal@utah.gov>

Mon, Jun 23, 2014 at 9:05 AM

----- Forwarded message -----

From: **Patrick Collins** <mt.nebo@xmission.com>
Date: Fri, Jun 20, 2014 at 3:12 PM
Subject: Seed Mixture For Emery
To: Russel Jensen <russeljensen@consolenergy.com>
Cc: Priscilla Burton <priscillaburton@utah.gov>, "Gefferth, John" <jgefferth@cecinc.com>

Hi Russel:

I spoke with Priscilla Burton at DOGM's PFO yesterday and she asked for my opinion on a seed list she was working on for the Emery Mine project. As you will recall, my suggestion to you earlier was to wait on the seed mix until we knew exactly when you were going to need it so we could check and see what seeds were commercially available at the time. In doing so, I thought the contractor could add a footnote i.e. "*bid does not include the price of seeds*".

I got the impression from Priscilla that the contractor (or you) wants the seed list prior to bidding the project? That said, I reviewed the existing vegetation data that I recorded at the Emery Mine, along with Priscilla's suggestions, and have attached my recommended seed mixture.

You will note that I have added seeds for several species in the mixture with the idea that this general list that will be applied to several exposures, habitats and soil types. I think different species will do better in different places, so we need a diverse list.

I hope this helps, and thanks Priscilla.

Patrick D. Collins, Ph.D.

MT. NEBO SCIENTIFIC, INC.

Research & Consulting

P.O. Box 337

330 East 400 South, Suite 6

Springville, Utah 84663

ph. [801.489.6937](tel:8014896937)

fax. [801.489.6779](tel:8014896779)

 **Consol14.EM.Reveg.Seeds.pdf**
27K

SEED MIX FOR THE EMERY MINE RECLAMATION TEST AREAS**SALT DESERT AREAS**

20 June 2014

SHRUBS

		Rate (PLS/Ac)	Seeds/Ft ²
<i>Atriplex canescens</i>	Fourwing saltbush	5.00	6.31
<i>Atriplex confertifolia</i>	Shadscale	5.00	7.35
<i>Atriplex corrugata</i>	Mat saltbush	5.00	6.89
<i>Atriplex gardneri</i> var. <i>cuneata</i>	Castle Valley clover	3.00	7.64
<i>Krascheninnikovia lanata</i>	Winterfat	5.00	6.31

FORBS

<i>Eriogonum unbellatum</i>	Sulfur buckwheat	1.50	7.20
<i>Helianthus annuus</i>	Sunflower	5.00	6.66
<i>Phacelia crenulata</i> var. <i>corrugata</i>	Corrugate phacelia	0.30	5.51
<i>Sphaeralcea grossulariaefolia</i>	Goose-berry leaf globemallow	0.50	5.74

GRASSES

<i>Elymus junceus</i>	Russian wildrye	0.30	4.02
<i>Elymus smithii</i>	Western wheatgrass	2.00	5.79
<i>Hilaria jamesii</i>	Galleta	2.00	7.30
<i>Sporobolus airoides</i>	Alkali sacaton	0.15	6.03
<i>Sporobolus flexuosus</i>	Mesa dropseed	0.10	7.64
<i>Stipa hymenoides</i>	Indian ricegrass	1.50	6.47

TOTALS**36.35 96.85**

* Rates based on employing broadcast seeding methods (reduce by 50% when drill-seeded).

** Due to commercial availability, species can be substituted by a qualified botanist.