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*Outgoing*

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*OK*

**OGMCOAL - WhiteOak Seedmix**

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**From:** Ingrid Wieser  
**To:** tren@graniteseed.com  
**Date:** 2/17/2010 3:20 PM  
**Subject:** WhiteOak Seedmix  
**CC:** OGMCOAL, OGMCOAL  
**Attachments:** IWSeedmix.doc

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Hi Tren- I have attached a draft seed mix for the project. Can you answer my comments next to some of the species, and suggest changes/additions. Also, for the riparian area, we will want to do cuttings/plugs/containerized plants to help with erosion control. Feel free to make suggestions on the riparian mix, but we will most likely try and buy those from a provider. Thanks for your help.

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## White Oak Seed Mix

### Slopes/Terraces

#### Grasses

Intermediate Wheatgrass *Agropyron trichophorum* (It was suggested that we use the Tegmar variety- Can you get this?)

Smooth Brome *Bromus inermis* Lincoln variety

Sterile Rye *Triticale* (It was recommended that we use a fall forage type *not* a grain type- Do you have a fall forage variety?)

Mammoth Wildrye *Leymus racemosus* Volga variety

Thickspike Wheatgrass *Agropyron dasystachyum* Critana variety

#### Forbs

Alfalfa *Medicago sativa* (Can you please suggest a creeping, low growing variety?)

Blueleaf Aster *Aster glaucodes*

Scarlet Globemallow *Sphaeralcea coccinea*

Alpine penstemon *penstemon venustus* (Can you suggest a type of penstemon that would meet our needs?)

#### Shrubs

Louisiana sagewort *Artemesia ludoviciana*

Forage Kochia *Kochia prostrate*

Martin Ceanothus *Ceanothus martini*

Western Clematis (Western Virgins Bower) *Clematis ligusticifolia*

Kinnikinnik *Arctostaphylos uva-ursi*

Mountain Snowberry *symphoricarpos oreophilus*

Black Sagebrush *Artemisia nova*

### Revised seed/plug list Riparian

#### Toe zone to bank zone

(18" spacing plugs in spring or early summer)

Hardstem Bulrush *Scirpus acutus*

Baltic Rush *Juncus balticus*

Nebraska Sedge *Carex nebrascensis*

Creeping spikerush *Eleocharis palustris*

Scouringrush horsetail *Equisetum hyemale* L.

#### Overbank Zone

(Dormant Cuttings 2 –ft spacing in spring or early summer)

Willow Suggestions:

- Drummond Willow
- Coyote willow
- Booth Willow
- Geyer Willow:

Redosier Dogwood *Cornus sericea* spp.

**Overbank to transitional zone**

(Broadcast Seeding in fall)

Skunkbush Sumac *Rhus tilobata*

Chokecherry *Prunus virginiana*

Golden Current *Ribes aureum*

Woods Rose

Saskatoon Serviceberry *Amelanchier alifolia*

Creeping Red Fescue *Festuca rubra*

Creeping Meadow Foxtail *Alopecurus arundinaceus* Variety: Garrison

Streambank Wheatgrass *Elymus lanceolatus* Variety: Critana

Mountain Brome *Bromus carinatus*

## Monitoring Schedule

1. With Priscilla: Ecological Site Identification (according to NRCS protocol)
2. Establish transects and GPS locations
  - Sections will include at a minimum: North facing slope, south facing slope, riparian corridor
3. Photo Points
  - Photo taken down transect line at beginning, middle and end
4. Line/Point Intercept
  - Quantify soil cover (veg, litter, rock, biotic crust)
  - Will use alternative method as suggested by NRCS using only total canopy, basal cover only (species not recorded) This reduces time and has the primary objective of documenting changes in erosion resistance.
  - May use only belt transect until adequate veg cover is achieved.
5. Canopy/Gap Intercept
  - Provide information on portion of transect covered by large gaps between plants.
  - Indicator of wind erosion and weed invasion
6. Basal Gap Intercept
  - Portion of transect covered by large gaps between plants
  - Indicator of runoff and water erosion.
7. Belt Transect
  - For measuring perennial invasive plants and woody species
  - Will be used for transects within the riparian corridor
8. Riparian Channel Vegetation Survey
  - General assessment of plant cover and composition along both sides of the channel.
9. Riparian channel and gully profile
  - Provides a description of channel shape and soil surface including rills and gullies.
10. Remote Sensing???
  - Includes aerial photographs, satellite imagery and digital elevation models generated from aircraft or satellites.
  - Increases the quality and cost-effectiveness of monitoring programs