

**Cline, David**

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**From:** Craig Edminster [pacificnwnatives@comcast.net]  
**Sent:** Tuesday, November 17, 2009 8:48 AM  
**To:** Cline, David  
**Subject:** RE: Marsh Seed Mixture  
**Attachments:** PNN\_June15.pdf; Guidelines.doc

David,

Thank you for the update on your project. We are suppliers of native seed exclusively for the west side of the Cascade range. So you have come to the right place. As far as the mixture specification a couple of these species are not available.

Lyngbei's sedge – maybe TNC group has hand collectors but no commercial seed is available.

Douglas aster – small amounts are available in the industry but sold out right now

Tufted hairgrass – OK

Seaside arrowgrass – no seed available

Meadow barley – OK

Pacific silverweed – no seed available

Seeding rate on mixture like this would be 18-25 lbs per acre with following percentage breakdown

Meadow barley 70%

Tufted hairgrass 20%

Lyngbei's sedge 2.5% (sub slough sedge)

Seaside arrowgrass 2.5% (sub spike bentgrass or blue eyed grass)

Pacific silverweed 2.5% (sub dense spike primrose)

Douglas aster 2.5%

Hope this helps!

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**From:** Cline, David [mailto:David.Cline@tetrattech.com]  
**Sent:** Saturday, November 14, 2009 2:14 PM  
**To:** pacificnwnatives@comcast.net  
**Subject:** Marsh Seed Mixture

Craig,

I was given a reference to contact you regarding native marsh seed species. I am working with The Nature Conservancy on the Fisher Slough Tidal Marsh Restoration Project. The project involves removal and setback of a levee and excavation of tidal pilot channels. For areas that are disturbed in the new marsh, the following species have been identified as the preferred seeding species.

Lyngbei's sedge

Douglas aster

Tufted hairgrass

Seaside arrowgrass

Meadow barley

Pacific silverweed

11/20/2009

Would you mind answering a few questions regarding specifying seed application rates and mixtures? What application rate (lbs/acre) would be specified for the above mix to have an equal number of seeds and have adequate coverage for establishment? Also, is there any preferred application method. The proposed approach is to disturb bare and compacted areas and then broadcast and rake the seed into the soil surface.

Any assistance you can provide is appreciated.

Thank you,

Dave

**David Cline, P.E.** | Senior Engineer, Surface Water Group

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