

621-R-637 SEED MIXTURES AND SEED REQUIREMENT

(Adopted 04-21-16)

The Standard Specifications are revised as follows:

SECTION 621, BEGIN LINE 219, DELETE AND INSERT AS FOLLOWS:

**621.06 Seed Mixtures**

Seed mixtures are classified as follows. Mixes including warm season grasses, forbs, or aquatic species will be specified in the plans.

**(a) Seed Mixture R**

~~This seed mixture shall be applied at the rate of 170 lb/ac consisting of 95 lb/ac of low endophyte Kentucky 31 Fescue or approved equal, 65 lb/ac perennial ryegrass, and 10 lb/ac Jasper Red Fescue or approved equal.~~ *This seed mixture shall be applied at the rate of 205 lb/ac consisting of 100 lb/ac of low endophyte Tall Fescue, 50 lb/ac of turf type Perennial Ryegrass, 50 lb/ac of Creeping Red Fescue, and 5 lb/ac of White Dutch Clover. Seed used in this mixture shall be drought tolerant. Fertilizer and mulching material, where specified or directed, shall be applied in accordance with 621.05.*

**(b) Seed Mixture U**

~~This seed mixture shall be applied at the rate of 150 lb/ac consisting of 95lb/ac of a 4-way blend of turf type tall fescues such as Tribute, Rebel II, Trailblazer or approved equal, 20lb/ac Jasper Red Fescue, or approved equal, and 35 lb/ac certified fine bladed perennial ryegrass such as Regal, Blazer, or approved equal.~~ *This seed mixture shall be applied at the rate of 200 lb/ac consisting of 100 lb/ac of a 4-way blend of turf type Tall Fescue, 50 lb/ac Creeping Red Fescue, 45 lb/ac Perennial Ryegrass and 5 lb/ac White Dutch Clover. Fertilizer and mulching material, where specified or directed, shall be applied in accordance with 621.05.*

**(c) Seed Mixture P**

~~This seed mixture shall be applied at the rate of 80 lb/ac consisting of 30 lb/ac of "Fults" Puccinella Distans, 30 lb/ac of Jasper Red Fescue, or approved equal, and 20 lb/ac of perennial ryegrass.~~ *This seed mixture shall be applied at the rate of 130 lb/ac consisting of 35 lb/ac of Weeping Alkaligrass, 35 lb/ac of Creeping Red Fescue, 35 lb/ac of Slender Creeping Red Fescue, and 25 lb/ac of Perennial Ryegrass. Seed used for this mixture shall be salt tolerant. Fertilizer shall be applied at the rate of 400 lb/ac. Fertilizer and mulching material, where specified or directed, shall be applied in accordance with 621.05.*

**(d) Blank**

**(e) Seed Mixture D**

This seed mixture is intended for ditch situations which experience seasonal to chronic saturated soils. This seed mixture shall be used on maintenance contracts or where otherwise specified. This mixture shall be applied at the rate of ~~14~~16 lb/ac. It shall consist of the materials and be applied at the rates shown below.

Material	Application Rates
Fowl Mana Grass	1-oz/ac

Wetland Species	Carex	3 oz/ae
Rice Cut Grass		2 oz/ae
Bullrush		2 oz/ae
Leptochloa Fascicularis		2 oz/ae
Barnyard Grass		2 oz/ac
Prairie Wild Rye		2 oz/ac
Perennial Ryegrass		10 lb/ae
Jasper Red Fescue		2 lb/ae
“Fulfs” Distans	Puccinella	2 oz/ae
Redtop		1 lb/ae

<i>Common Name</i>	<i>Botanical Name</i>	<i>Application Rates</i>
<i>Alkaligrass</i>	<i>Puccinellia distans</i>	<i>3 oz/ac</i>
<i>Bearded Strangletop</i>	<i>Leptochloa fascicularis</i>	<i>3 oz/ac</i>
<i>Creeping Bentgrass</i>	<i>Agrostis stolonifera</i>	<i>2 lb/ac</i>
<i>Fowl Manna Grass</i>	<i>Glyceria striata</i>	<i>2 oz/ac</i>
<i>Perennial Ryegrass</i>	<i>Lolium perenne</i>	<i>5 lb/ac</i>
<i>Red Fescue</i>	<i>Festuca rubra</i>	<i>2 lb/ac</i>
<i>Redtop</i>	<i>Agrostis gigantea</i>	<i>1 lb/ac</i>
<i>Rice Cut Grass</i>	<i>Leersia oryzoides</i>	<i>2 oz/ac</i>
<i>Virginia Wild Rye</i>	<i>Elymus virginicus</i>	<i>5 lb/ac</i>
<i>Wetland Carex Species</i>	<i>Carex spp.</i>	<i>3 oz/ac</i>
<i>Wetland Rush Species</i>	<i>Juncus spp.</i>	<i>3 oz/ac</i>

Seed used in this mixture shall be wet tolerant. If certain species in this mix are unavailable, substitutions may be submitted for approval. The mix shall be applied as specified per acre. The method of planting shall be by means of hydroseeding or by means of a hand method with a minimal amount of mulch applied in a separate operation. Fertilizer shall not be added to this seed mixture.

**(f) Blank**

**(g) Seed Mixture Grass**

This seed mixture shall be placed when specified as shown below.

**1. Type 1**

This seed mixture shall be placed at the rate of ~~195~~235 lb/ac consisting of 15 lb/ac of Smooth Bromegrass ~~Brome~~ Brome Grass, 10 lb/ac of Orchardgrass ~~Orchard~~ Orchard Grass, and the mixture specified in 621.06(a).

**2. Type 2**

This seed mixture shall be placed at the rate of ~~110~~125 lb/ac consisting of ~~15~~20 lb/ac of Smooth Bromegrass ~~Brome~~ Brome Grass, 10 lb/ac of Orchardgrass ~~Orchard~~ Orchard Grass, 40 lb/ac of Certified Common Kentucky Bluegrass, ~~30~~35 lb/ac of Creeping Red Fescue, and ~~15~~20 lb/ac of Perennial Rye Grass.

**(h) Seed Mixture Legume**

This seed mixture shall be placed when specified as shown below. Mulched seeding, when specified, shall be in accordance with 621.07. *Legume mixtures shall only be used from February 1 to May 31.*

**1. Type 1**

This seed mixture shall be placed at the rate of ~~190~~230 lb/ac consisting of ~~10~~7 lb/ac of ~~Sericea Lespedeza~~ or Korean Lespedeza, ~~10~~6 lb/ac of ~~medium~~ Red Clover or Alsike Clover, *7 lb/ac of Partridge Pea*, and the mixture specified in 621.06(a).

**2. Type 2**

This seed mixture shall be placed at the rate of ~~100~~150 lb/ac consisting of ~~10~~7.5 lb/ac of ~~Sericea Lespedeza~~ or Korean Lespedeza, ~~10~~7.5 lb/ac of ~~medium~~ Red Clover or Alsike Clover, ~~10~~7.5 lb/ac of Birdsfoot Trefoil, *7.5 lb/ac of Partridge Pea*, ~~40~~50 lb/ac of ~~Certified~~ Kentucky Bluegrass, ~~30~~45 lb/ac of Creeping Red Fescue, and ~~10~~25 lb/ac of ~~Annual~~Perennial Rye Grass.

“Do Not Spray” signs shall be placed near the beginning and end of this work, at 200 ft intervals, or as otherwise directed. The sign shall be 16 ~~gauge~~gauge aluminum. The size and message arrangement shall be as shown on the plans. The sign background shall be white. The sign lettering shall be black. The sign shall not be reflectorized. Paint and primer shall be in accordance with 909.04. The sign post shall be placed as shown on the plans. The post shall otherwise be in accordance with 910.15.

SECTION 914, BEGIN LINE 91, DELETE AND INSERT AS FOLLOWS:

VARIETY	Percentages of Weed Seed Content (Not more than)
Alfalfa .....	Medicago sativa .....0.5
Alkaligrass .....	<i>Puccinellia distans</i> .....0.5
Alsike Clover .....	Trifolium hybridum .....0.5
Alta Fescue or Ky. 31 .....	<del>Festuca elatior</del>
Fescue .....	(var. arundinacea) .....0.75
Birdsfoot Trefoil .....	Lotus corniculatus .....0.5
Chewings Fescue .....	Festuca rubra (var. fallax) .....0.5
Creeping Bentgrass.....	<i>Agrostis stolonifera</i> .....0.5
Creeping Red Fescue .....	<i>Festuca rubra spp. rubra</i> .....0.5
Fowl Manna Grass .....	<i>Glyceria striata</i> .....1.0
English Perennial Rye.....	<i>Lolium perenne</i> .....0.5
Kentucky Bluegrass .....	<del>Poa pratensis</del> <i>pratensis</i> .....0.5
Korean Lespedeza.....	<i>Lespedeza stipulacea</i> .....0.75
Sericea Lespedeza.....	<i>Lespedeza sericea</i> .....0.75
Ladino Clover .....	Trifolium repens (var. latum).....0.5
Lemons Alkali Grass.....	<i>Puccinellia airoides</i> (Lemons).....0.5
Orchard Grass .....	<i>Dactylis glomerata</i> .....0.5
Perennial Rye Grass .....	<i>Lolium perenne</i> .....0.5

Red Clover .....	Trifolium pratense.....	0.5
Red Fescue .....	Festuca rubra.....	0.5
Red-Top.....	Agrostis albigigantea .....	0.75
Rice Cut Grass .....	Leersia oryzoides .....	1.0
Rough Stalked Meadowgrass.....	Poa trivialis .....	0.5
Rye, Agricultural.....	Secale cereale.....	0.5
Rye, Annual .....	Lolium multiforum.....	0.5
Sheeps Fescue .....	Festuca orina .....	0.5
Smooth Brome Grass .....	Bromus inermis.....	0.95
Sweet Clover-white (Scarified) .....	Melilotus alba.....	0.5
Sweet Clover-yellow (Scarified) .....	Melilotus officinalis .....	0.5
Tall Fescue.....	Festuca arundinacea.....	0.5
Timothy.....	Phleum pratense .....	0.5
Virginia Wild Rye.....	Elymus virginicus.....	1.0
White Dutch Clover .....	Trifolium repens.....	0.75

VARIETY Percentages  
of Purity  
(Not less than)

Alfalfa .....	Medicago sativa .....	99
Alkaligrass .....	Puccinellia distans .....	90
Alsike Clover .....	Trifolium hybridum .....	97
Alta Fescue or Ky. 31 Fescue .....	Festuca elatior (var. arundinacea) .....	98
Birdsfoot Trefoil .....	Lotus corniculatus.....	98
Chewings Fescue .....	Festuca rubra (var. fallax).....	97
Creeping Bentgrass.....	Agrostis stolonifera.....	98
Creeping Red Fescue .....	Festuca rubra spp. rubra .....	95
English Perennial Rye.....	Lolium perenne.....	95
Fowl Manna Grass .....	Glyceria striata .....	95
Kentucky Bluegrass .....	Poa pratensis.....	85
Korean Lespedeza.....	Lespedeza stipulacea.....	98
Sericea Lespedeza.....	Lespedeza sericea.....	98
Ladino Clover .....	Trifolium repens (var. latum).....	98
Lemons Alkali Grass.....	Puccinellia airoides (Lemons).....	85
Orchard Grass .....	Dactylis glomerata .....	85
Perennial Rye Grass .....	Lolium perenne .....	95
Red Clover .....	Trifolium pratense.....	98
Red Fescue .....	Festuca rubra.....	95
Red-Top.....	Agrostis albigigantea .....	90
Rice Cut Grass .....	Leersia oryzoides .....	98
Rough Stalked Meadowgrass.....	Poa trivialis .....	85
Rye, Agricultural.....	Secale cereale.....	99
Rye, Annual .....	Lolium multiforum.....	95
Sheeps Fescue .....	Festuca orina .....	97

Smooth Brome Grass .....	Bromus inermis .....	85
Sweet Clover-white (Scarified) .....	Melilotus alba.....	98
Sweet Clover-yellow (Scarified) .....	Melilotus officinalis .....	98
Tall Fescue.....	Festuca arundinacea.....	98
Timothy.....	Phleum pratense .....	90
Virginia Wild Rye.....	Elymus virginicus.....	90
White Dutch Clover .....	Trifolium repens.....	97

Percentages  
Actual  
Germination  
(Not less than)

VARIETY		
Alfalfa .....	Medicago sativa .....	85*
Alkaligrass .....	Puccinellia distans .....	80
Alsike Clover .....	Trifolium hybridum .....	85*
Alta Fescue or Ky. 31 .....	Festuca elatior (var. arundinacea).....	85
Birdsfoot Trefoil .....	Lotus corniculatus .....	80*
Chewings Fescue .....	Festuca rubra (var. fallax).....	75
Creeping Bentgrass.....	Agrostis stolonifera.....	85
Creeping Red Fescue .....	Festuca rubra spp. rubra .....	80
English Perennial Rye.....	Lolium perenne.....	90
Fowl Manna Grass .....	Glyceria striata .....	90
Kentucky Bluegrass .....	Poa pratensis.....	80
Korean Lespedeza.....	Lespedeza stipulacea.....	80*
Sericea Lespedeza.....	Lespedeza sericea.....	80*
Ladino Clover .....	Trifolium repens (var. latum).....	85*
Lemons Alkali Grass.....	Puccinellia airoides (Lemons).....	80
Orchard Grass .....	Dactylis glomerata .....	80
Perennial Rye Grass .....	Lolium perenne .....	90
Red Clover .....	Trifolium pratense.....	90*
Red Fescue .....	Festuca rubra .....	85
Red Top.....	Agrostis albigigantea .....	80
Rice Cut Grass .....	Leersia oryzoides .....	80
Rough Stalked Meadowgrass.....	Poa trivialis .....	75
Rye, Agricultural.....	Secale cereale.....	80
Rye, Annual .....	Lolium multiflorum.....	90
Sheeps Fescue .....	Festuca orina .....	75
Smooth Brome Grass .....	Bromus inermis .....	80
Sweet Clover-white (Scarified) .....	Melilotus alba.....	85*
Sweet Clover-yellow (Scarified) .....	Melilotus officinalis .....	85*
Tall Fescue.....	Festuca arundinacea.....	85
Timothy.....	Phleum pratense .....	85
Virginia Wild Rye.....	Elymus virginicus.....	70

White Dutch Clover .....Trifolium repens.....90\*

\* including not more than 25% hard seeds

*For all other seed indicated to be used but not shown in the charts above, that seed shall be placed at the indicated rate and be 100% pure live seed.*

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