



NATIONAL SEED

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across the uphill end of the roll. The downhill ends of the lowermost rolls across the slope shall also be anchored with six staples, placed on uniform spacing.

210

For placement in ditch lines, the straw mat shall be unrolled parallel to the centerline of the ditch. The mat shall be placed so that there are no longitudinal seams within 24 in. (600 mm) of the bottom centerline of the ditch. In ditch lines, six staples shall be placed at uniform spacing across the upstream end of each roll.

(g) Wood Cellulose Fiber Mulch

Wood cellulose fiber may be used where mulched seeding is specified. Wood cellulose fiber mulch shall be placed at the rate of 1 ton/acre (2200 kg/ha) within 24 h after seeding operations have been completed. Application shall be by hydraulic mulching and consist of mixing wood cellulose fiber mulch and grass seed with water. It shall be mixed in standard hydraulic mulching equipment to form a homogeneous slurry. The slurry shall be sprayed, under pressure, uniformly over the soil surface. The hydraulic mulching equipment shall contain a continuous agitation system that keeps all materials in uniform suspension throughout the mixing and distribution cycles. Fertilizer shall be applied in accordance with 621.05(a).

220

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.

230

(a) Seed Mixture R

This seed mixture shall be applied at the rate of 170 lb/acre (190 kg/ha) consisting of 95 lb/acre (106 kg/ha) of low endophyte Kentucky 31 Fescue or approved equal, 65 lb/acre (73 kg/ha) perennial ryegrass, and 10 lb/acre (11 kg/ha) Jasper Red Fescue or approved equal. 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/acre (168 kg/ha) consisting of 95 lb/acre (106 kg/ha) of a 4-way blend of turf type tall fescues such as Tribute, Rebel II, Trailblazer or approved equal, 20 lb/acre (22 kg/ha) Jasper Red Fescue or approved equal, and 35 lb/acre (40 kg/ha) certified fine bladed perennial ryegrass such as Regal, Blazer, or approved equal. Fertilizer and mulching material, where specified or directed, shall be applied in accordance with 621.05.

240

(c) Seed Mixture P

This seed mixture shall be applied at the rate of 80 lb/acre (90 kg/ha) consisting of 30 lb/acre (34 kg/ha) of "Fults" Puccinella Distans, 30 lb/acre (34 kg/ha) of Jasper Red Fescue, or approved equal, and 20 lb/acre (22 kg/ha) of perennial ryegrass. Fertilizer shall be applied at the rate of 400 lb/acre (450 kg/ha). Fertilizer and mulching material, where specified or directed, shall be applied in accordance with 621.05.

250

(d) Blank**(e) Seed Mixture D**

260 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 lb/acre (16 kg/ha). It shall consist of the materials and be applied at the rates shown below.

Material	English Units Application Rates	Metric Units Application Rates
Fowl Mana Grass	1 oz/ac	80 g/ha
Wetland Carex Species	3 oz/ac	220 g/ha
Rice Cut Grass	2 oz/ac	150 g/ha
Bullrush	2 oz/ac	150 g/ha
Leptochloa Fascicularis	2 oz/ac	150 g/ha
Barnyard Grass	2 oz/ac	150 g/ha
Prairie Wild Rye	2 oz/ac	150 g/ha
Perennial Ryegrass	10 lb/ac	11.2 kg/ha
Jasper Red Fescue	2 lb/ac	2.4 kg/ha
“Fulfs” Puccinella Distans	2 oz/ac	150 g/ha
Redtop	1 lb/ac	1.2 kg/ha

If certain species in this mix are unavailable, substitutions may be submitted for approval. The mix shall be applied as specified per acre (hectare). 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) Seed Mixture T

270 This seed mixture shall be used to establish a temporary cover for disturbed soil during the construction operations. Seed mixture T shall be used for soil stabilization and temporary ground cover. Temporary cover mixtures shall be placed as directed and be subject to seasonal limitations as defined herein. This mixture is not intended to be used as a permanent seed mixture. The mix shall be mulched in accordance with 621.05(c) when slopes exceed 3:1. From December 1 to March 14 and from June 16 to August 31, mulching alone shall be used to stabilize the soil. This mixture shall not be used to satisfy the requirements of the warranty bond.

1. Spring Mix

280 Spring mix shall be used from March 15 through June 15. This mixture shall be applied at the rate of 150 lb/acre (168 kg/ha). The mix shall consist of oats.

2. Fall Mix

Fall mix shall be used from September 1 through November 30. This mixture shall be applied at the rate of 150 lb/acre (168 kg/ha). This mix shall consist of winter wheat.

(g) Seed Mixture Grass

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

290

1. Type 1

This seed mixture shall be placed at the rate of 195 lb/acre (220 kg/ha) consisting of 15 lb/acre (18 kg/ha) of Smooth Brome grass, 10 lb/acre (12 kg/ha) of Orchardgrass, and the mixture specified in 621.06(a).

2. Type 2

300

This seed mixture shall be placed at the rate of 110 lb/acre (124 kg/ha) consisting of 15 lb/acre (17 kg/ha) of Smooth Brome grass, 10 lb/acre (11 kg/ha) of Orchardgrass, 40 lb/acre (45 kg/ha) of Certified Common Kentucky Bluegrass, 30 lb/acre (34 kg/ha) of Creeping Red Fescue, and 15 lb/acre (17 kg/ha) 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.

1. Type 1

310

This seed mixture shall be placed at the rate of 190 lb/acre (214 kg/ha) consisting of 10 lb/acre (12 kg/ha) of Sericea Lespedeza or Korean Lespedeza, 10 lb/acre (12 kg/ha) of medium Red Clover or Alsike Clover, and the mixture specified in 621.06(a).

2. Type 2

320

This seed mixture shall be placed at the rate of 100 lb/acre (112 kg/ha) consisting of 10 lb/acre (11 kg/ha) of Sericea Lespedeza or Korean Lespedeza, 10 lb/acre (11 kg/ha) of medium Red Clover or Alsike Clover, 10 lb/acre (11 kg/ha) of Birdsfoot Trefoil, 40 lb/acre (45 kg/ha) of Certified Kentucky Bluegrass, 30 lb/acre (34 kg/ha) of Creeping Red Fescue, and 10 lb/acre (11 kg/ha) of Annual Rye Grass.

“Do Not Spray” signs shall be placed near the beginning and end of this work, at 200 ft (60 m) intervals, or as otherwise directed. The sign shall be 16 gage (1.6 mm) 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.

621.07 Mulched Seeding

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Mulched seeding, when specified, shall consist of applying the seed mixtures in accordance with 621.06(a), 621.06(b), and 621.06(c) as specified. This mixture shall include fertilizer and mulching material in the amounts set out herein. If erosion