

**Temporary Seeding Recommendations**

Common Name	Scientific Name	Rate per Acre	Optimal Planting Date
Rye Grain	Secale Cereale	30 lbs	Aug. 15 - May 15
Wheat	Triticum Aestivum	30 lbs	Aug. 15 - May 15
German Millet	Setaria Italica	10 lbs	May 15 - Aug. 15
Browntop Millet	Urochloa Ramosa	10 lbs	May 15 - Aug. 15

**Temporary Seeding Recommendations:**

- Temporary annual seed selection should be based on season of project installation.
- A single species selection for temporary cover is acceptable.
- In some cases where seasons overlap, a mixture of two or more temporary species may be necessary; however, application rates should not exceed the total recommended rate per acre.
- Temporary seed should be mixed and applied simultaneously with the permanent seed mix if optimal planting dates allow.

**Permanent Seeding Recommendations:  
Optimal Planting: Mar. 1 - May 15, July 15 - Aug. 15**

Common Name	Scientific Name	Type*	% of Mix	Soil Drainage Adaptation	Shade Tolerance	Height
Indian Woodoats	Chasmanthium latifolium	Cold Season	1-10%	Well-drained to Droughty	Moderate	4
Virginia Wildrye	Elymus virginicus	Cold Season	5-25%	Well-drained to Droughty	Moderate	3
Eastern Bottle-brush Grass	Elymus hystrix	Cold Season	5-10%	Well-drained to Droughty	Moderate	3
Winter Bentgrass	Argostis hyemalis	Cold Season	10-20%	Well-drained	Moderate	3
Rough Bentgrass	Agrostis scabra	Cold Season	10-20%	Poorly-drained	Poor	2.5

**Permanent Seeding Recommendations:  
Optimal Planting Dec. 1 - Apr. 15**

Common Name	Scientific Name	Cultivars	Type*	% of Mix	Soil Drainage Adaptation	Shade Tolerance	Height
Switchgrass	Panicum virgatum	Cave-in-rock -- well drained Blackwell -- well drained Shelter -- well drained Kanlow -- poorly drained Carthage -- well drained	Warm Season	10-15%	Cultivar Dependent	Poor	6
Indiangrass	Sorghastrum nutans	Rumsey, Osage, Cheyenne	Warm Season	10-30%	Well-drained to Droughty	Poor	6
Deertongue	Dichanthelium clandestinum	Tioga	Warm Season	5-25%	Poorly-drained to Droughty	Moderate	6
Big Bluestem	Andropogon gerardii	Roundtree, Kaw, Earl	Warm Season	10-30%	Well-drained to Droughty	Poor	6
Little Bluestem	Schizachyrium scoparium	Aldous, Cimarron	Warm Season	10-30%	Well-drained to Droughty	Poor	4
Sweet Woodreed	Cinna arundinacea		Warm Season	1-10%	Poorly-drained to Well-drained	Moderate	5
Rice Cutgrass	Leersia oryzoides		Warm Season	5-25%	Poorly-drained	Poor	5
Redtop Panic Grass	Panicum rigidulum		Warm Season	10-20%	Well-drained	Poor	3.5
Eastern Gammagrass	Tripsacum dactyloides		Warm Season	10-20%	Well-drained to Poorly-drained	Poor	4.5
Purple Top	Tridens flavus		Warm Season	5-10%	Well-drained to Droughty	Poor	2.5

**Permanent Seeding:**

- Soil analysis should be performed to determine nutrient and lime needs of each site.
- Riparian buffers regulated for nutrient management may be limited to a single application of fertilizer.
- Apply seed uniformly with a cyclone seeder, drop-type spreader, drill or hydroseeder on a firm, friable seedbed.
- When using a drill, equipment should be calibrated in the field for the desired seeding rate.
- Mulch all plantings immediately after seeding (see 6.14, Mulching). If planting on stream banks steeper than 10% or areas subject to flooding, a biodegradable RECP (6.17, Rolled Erosion Control Products) is recommended to hold seed and soil in place.

**Maintenance:**

- Many of the recommended permanent grass species may require two years of establishment, depending on site conditions.
- Inspect seeded areas for failure and make necessary repairs, soil amendments, and reseeds.
- If weedy exotic species have overtaken the area after the first growing season, the invading species must be eradicated to allow native species to grow.
- Monitor the site until long term stability has been established.

**Permanent Seeding Recommendations:  
Optimal Planting: Dec. 15 - May 15, Aug. 15 - May 15**

Common Name	Scientific Name	Type*	% of Mix	Soil Drainage Adaptation	Shade Tolerance	Height
Soft Rush	Juncus effusus	Wetland	1-10%	Poorly-drained	Poor	4
Shallow Sedge	Carex lurida	Wetland	1-10%	Poorly-drained	Poor	3
Fox Sedge	Carex vulpinoidea	Wetland	1-10%	Poorly-drained	Poor	3
Leathery Rush	Junucus coriaceous	Wetland	2-5%	Poorly-drained	Poor	2

- No specific seeding rate is given in order to allow for custom seed mixes based on site characteristics and season. However, permanent seed inclusion in the mix should total 15 pounds of pure live seed (PLS) per acre drilled or 15-20 pounds PLS per acre broadcast applied.
- At least 4 species should be selected for the mixture, including one species from each type(warm and cold season and wetland); selection of more than four species is recommended for increasing chances of successful vegetation establishment.
- If other species such as wildflowers are added to the mix, they should not be counted in the minimum seeding rate for grasses.



**RIPARIAN AREA SEEDING (MOUNTAIN REGION)**