

**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**

**Type: Cold Season**

Common Name	Scientific Name	Optimal Planting Dates	% of Mix	Soil Drainage Adaptation	Shade Tolerance	Height
Indian Woodoats	Chasmanthium latifolium	Feb. 15 - Apr. 1, Aug. 15 - Oct. 15	1-10%	Well-drained to Droughty	Moderate	4
Virginia Wildrye	Elymus virginicus	Feb. 15 - Apr. 1, Aug. 15 - Oct. 15	5-25%	Well-drained to Droughty	Moderate	3
Eastern Bottle-brush Grass	Elymus hystrix	Feb. 15 - Apr. 1, Aug. 15 - Oct. 15	5-10%	Well-drained to Droughty	Moderate	3
Rough Bentgrass	Argostis scabra	Feb. 15 - Apr. 1, Aug. 15 - Oct. 15	10-20%	Poorly-drained	Poor	2.5
Winter Bentgrass	Agrostis hyemalis	Feb. 15 - Apr. 1, Aug. 15 - Oct. 15	2-5%	Well-drained	Moderate	3.5

**Permanent Seeding Recommendations**

**Type: Warm Season**

Common Name	Scientific Name	Cultivars	Optimal Planting Dates	% 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	Dec. 1 - Apr. 1	10-15%	Cultivar Dependent	Poor	6
Switchgrass	Panicum virgatum	Alamo -- poorly drained	Dec. 1 - May 1	10-15%	Cultivar Dependent	Poor	6
Indiangrass	Sorghastrum nutans	Rumsey, Osage, Cheyenne	Dec. 1 - Apr. 1	10-30%	Well-drained to Droughty	Poor	6
Indiangrass	Sorghastrum nutans	Lometa	Dec. 1 - May 1	10-30%	Well-drained to Droughty	Poor	6
Deertounge	Dichanthelium clandestinum	Tioga	Dec. 1 - Apr. 1	5-25%	Poorly-drained to Droughty	Moderate	2
Big Bluestem	Andropogon gerardii	Roundtree, Kaw, Earl	Dec. 1 - Apr. 1	10-30%	Well-drained to Droughty	Poor	6
Little Bluestem	Schizachyrium scoparium	Cimarron	Dec. 1 - Apr. 1	10-30%	Well-drained to Droughty	Poor	4
Sweet Woodreed	Cinna arundinacea		Dec. 1 - Apr. 1	1-10%	Poorly-drained to Well-drained	Moderate	5
Rice Cutgrass	Leersia oryzoides		Dec. 1 - Apr. 1	5-25%	Poorly-drained	Poor	5
Redtop Panicgrass	Panicum rigidulum		Dec. 1 - Apr. 1	10-20%	Well-drained	Poor	3.5
Baked Panicgrass	Panicum anceps		Dec. 1 - Apr. 1	10-20%	Poorly-drained	Moderate	3.5
Purple Top	Tridens flavus		Dec. 1 - Apr. 1	5-10%	Well-drained to Droughty	Poor	2.5
Eastern Gammagrass	Tripsacum dactyloides		Dec. 1 - Apr. 1	5-10%	Well-drained to Poorly-drained	Poor	4.5

**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.

**Permanent Seeding Recommendations**

**Type: Wetland**

Common Name	Scientific Name	Optimal Planting Dates	% of Mix	Soil Drainage Adaptation	Shade Tolerance	Height
Soft Rush	Juncus effusus	Dec. 1 - May 1, Sep. 1 - Nov. 1	1-10%	Poorly-drained	Poor	4
Shallow Sedge	Carex lurida	Dec. 1 - May 1, Sep. 1 - Nov. 1	1-10%	Poorly-drained	Poor	3
Fox Sedge	Carex vulpinoidea	Dec. 1 - May 1, Sep. 1 - Nov. 1	1-10%	Poorly-drained	Poor	3
Leathery Rush	Junucus coriaceous	Dec. 1 - May 1, Sep. 1 - Nov. 1	2-5%	Poorly-drained	Poor	2

**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 reseedings.
- 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.

- 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 (PIEDMONT REGION)**