

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 - Mar. 20, Sept. 1 - Nov. 1 | 1-10% | Well-drained to Droughty | Moderate | 4 |
| Virginia Wildrye | Elymus virginicus | Feb. 15 - Mar. 20, Sept. 1 - Nov. 1 | 5-25% | Well-drained to Droughty | Moderate | 3 |
| Rough Bentgrass | Argostis scabra | Feb. 15 - Mar. 20, Sept. 1 - Nov. 1 | 10-20% | Poorly-drained | Poor | 2.5 |

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 - Apr. 15 | 1-10% | Poorly-drained | Poor | 4 |
| Shallow Sedge | Carex lurida | Dec. 1 - Apr. 15 | 1-10% | Poorly-drained | Poor | 3 |
| Fox Sedge | Carex vulpinoidea | Dec. 1 - Apr. 15 | 1-10% | Poorly-drained | Poor | 3 |
| Leathery Rush | Junucus coriaceus | Dec. 1 - Apr. 15 | 2-5% | Poorly-drained | Poor | 2 |

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 | 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 |
| Big Bluestem | Andropogon gerardii | Earl | Dec. 1 - Apr. 1 | 10-30% | Well-drained to Droughty | Poor | 4 |
| Little Bluestem | Schizachyrium scoparium | Cimarron | Dec. 1 - Apr. 1 | 10-30% | Well-drained to Droughty | Poor | 5 |
| 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 | 3.5 |
| 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 | 4.5 |
| Eastern Gammagrass | Tripsacum dactyloides | | Dec. 1 - Apr. 1 | 5-10% | Well-drained to Poorly-drained | Poor | 4.5 |
| Purple Top | Tridens flavus | | Dec. 1 - Apr. 1 | 5-10% | Well-drained to Droughty | Poor | 2.5 |

* Only Lometa in eastern coastal plan (Plant Hardiness Zone 8)

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.

- 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 (COASTAL PLAIN REGION)

Effective Date: 9/1/2023
In accordance with the 2013 Design Manual Updates