UT Extension



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Some turfgrasses grow best during warm weather, while others become heat-stressed. Some are established from seed; others produce

no viable seed. Sterile, hybrid turfgrasses are often established from sod, plugs or harvested segments of stolons or rhizomes referred to as sprigs. Site preparation, timing and the care provided after planting usually determine if turfgrasses survive.

Bluegrasses (Poa spp.), fescues (Festuca spp.) and ryegrasses (Lolium spp.) grow best from 60 to 75 degrees Fahrenheit. In Tennessee, late



August to mid-October is considered an ideal time to seed these cool-season turfgrasses. Although late summer and early fall plantings are preferred, and wet, rainy weather may make soil preparation difficult, fescues and ryegrasses are sometimes seeded in late winter or early spring. Kentucky bluegrass should not be seeded in spring. Kentucky bluegrass seeds germinate very slowly compared to fescues and ryegrasses, and poorly developed seedlings are usually killed by hot, dry weather in summer. Tall fescue and Kentucky bluegrass sod is most often installed from January through June and September through December. Many sod producers do not like to market sod of cool-season turfgrasses in July and August, when plants are prone to high-temperature stress and disease.

Temperatures from 80 to 95 degrees Fahrenheit favor the growth of bermudagrass (*Cynodon* spp.), centipedegrass [*Eremochloa ophiuroides* (Munroe.) Hack.], St. Augustinegrass [*Stenotaphrum secundatum* (Walt.) Kuntze.] and *Zoysia* (*Zoysia* spp.). In Tennessee, seeds, plugs or sprigs of these warm-season turfgrasses should be planted between May 1 and June 30. Sod of warm-season

turfgrasses is installed throughout the year, as long as the planting bed is not frozen. However, if turfgrasses are dormant at planting, several weeks or



months may be required before the newly sodded turf can withstand traffic.

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Common planting methods and timing for establishing several turfgrass species in Tennessee.

Species	Planting Method	Timing	
Cool-season			
Bluegrass, hybrid <i>Poa pratensis</i> L. x <i>Poa arachifera</i> Torr.	sod,ª seed	late summer – early fall	
Bluegrass, Kentucky <i>Poa pratensis</i> L.	seed	late summer – early fall	
Bluegrass, rough <i>Poa trivialis</i> L.	seed	late summer – early fall	
Fescue, chewings <i>Festuca rubra</i> L. ssp. <i>falax</i> Thuill. <i>, Festuca</i> <i>rubra</i> var. <i>commutata</i> Gaud.	seed	late summer – early fall, late winter – early spring	
Fescue, hard <i>Festuca longifolia</i> auct. non Thuill.	seed	late summer – early fall, late winter – early spring	
Fescue, sheep <i>Festuca ovina</i> L.	seed	late summer – early fall, late winter – early spring	
Fescue, slender creeping red Festuca rubra L. ssp. trichophylla, Festuca rubra var. littoralis Vasey	seed	late summer – early fall, late winter – early spring	
Fescue, strong creeping red Festuca rubra L. rubra	seed	late summer – early fall, late winter – early spring	
Fescue, tall <i>Festuca arundinacea</i> Schreb.	sod,ª seed	late summer – early fall, late winter – early spring	
Ryegrass, annual (Italian) <i>Lolium multiflorum</i> Lam.	seed	late summer – early fall, late winter – early spring	
Ryegrass, intermediate <i>Lolium hybridum ,</i> hybrid of <i>Lolium multiflorum</i> Lam. + <i>Lolium perenne</i> L.	seed	late summer – early fall, late winter – early spring	
Ryegrass, perennial (English) Lolium perenne L.	seed	late summer – early fall, late winter – early spring	

Warm-season			
Bermudagrass Cynodon spp.			
Common or Improved Common Bermudagrass <i>Cynodon dactylon</i> (L.) Pers.	sod, ^b plugs, sprigs, seed	late spring – early summer	
Hybrid Bermudagrass Cynodon dactylon (L.) Pers. x Cynodon transvaalensis Davy.	sod, [♭] plugs, sprigs	late spring – early summer	
Centipedegrass Eremochloa ophiuroides (Munro.) Hack.	sod, ^b plugs, sprigs, seed	late spring – early summer	
St. Augustinegrass Stenotaphrum secundatum (Walt.) Kuntze.	sod, [♭] plugs, sprigs	late spring – early summer	
Zoysia Zoysia spp.			
Chinese, Japanese or Korean Common Lawngrass <i>Zoysia japonica</i> Steud.	sod, ^b plugs, sprigs, seed	late spring – early summer	
Manilagrass Zoysia matrella (L.) Merr.	sod, [♭] plugs, sprigs	late spring – early summer	
Mascarenegrass, Korean velvetgrass Zoysia tenuifolia Thiele, ^c Zoysia pacifica (Goudsward) Hotta & Kuroki	sod, [⊾] plugs, sprigs	late spring – early summer	
Hybrid Zoysia japonica Steud. x Zoysia tenuifolia Thiele, Zoysia japonica Steud. x [Zoysia matrella (L.) Merr. x Zoysia tenuifolia Thiele]	sod, [♭] plugs, sprigs	late spring – early summer	

^a To avoid transplanting turfs during high-temperature stress, sod of cool-season turfgrasses is usually installed from January through June and September through December.

^b Sod of warm-season turfgrasses can be installed all year long as long as the planting bed is not frozen.

^c The species Zoysia tenuifolia appears to have been misidentified and is now identified as Zoysia pacifica.

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