

‘TIFEAGLE’ BERMUDAGRASS RESPONSE TO THREE PLANT GROWTH REGULATORS

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ABSTRACT

The study was performed for 20 weeks on ‘TifEagle’ bermudagrass [*Cynodon dactylon* (L.) Pers. x *C. trasvaalensis* Burt-Davey]. Primo MAXX 1EC (trinexapac-ethyl), Cutless 50WP (flurprimidol), and Proxy 2L (ethephon) were evaluated alone and as a tank mix. Initial PGR applications were made on 17 May 2004 with sequential applications made biweekly. PGR rates included: Primo MAXX at 2 oz A⁻¹ (0.0175 kg ai ha⁻¹), Cutless at 2 oz A⁻¹ (0.07 kg ai ha⁻¹), and Proxy at 2.5 oz 1000 ft² (1.91 kg ai ha⁻¹). Measurements included: turfgrass quality, turfgrass density, clipping yield reduction, root length density, root biomass, ball roll distances, shoot chlorophyll, root carbohydrates, overseeding establishment and spring transition from *Poa trivialis* L. to hybrid bermudagrass.

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