Registration of ‘CP 88-1762’ Sugarcane

‘CP 88-1762’ sugarcane (a complex hybrid of *Saccharum officinarum* L., *S. barberi* Jeswiet, *S. spontaneum* L., and *S. sinense* Roxb. amend. Jeswiet) (Reg. no. CV-105, PI 595672) was selected from progeny of the polycross 85P6 made at Canal Point, FL, in December 1985, with ‘CP 80-1743’ (1) as the female parent. CP 88-1762 was developed through cooperative research by the USDA-ARS, the Institute of Food and Agricultural Sciences (IFAS) of the University of Florida, and the Florida Sugar Cane League, Inc., and was released in the fall of 1995.

CP 88-1762 was tested in 19 replicated tests on muck soil (7 plant-cane, 7 first-ratoon and 5 second-ratoon crops). Stalks of CP 88-1762 are red when exposed to light. Stalk weight averaged 2% heavier than that of ‘CP 70-1133’ (2) and 1% heavier than the stalk weight of ‘CP 72-1210’ (3), the commercial checks. Averaged across the 19 replicated yield trials, the cane yield (Mg ha\(^{-1}\)) for CP 88-1762 was equal to that of CP 70-1133 and 28% greater than that of CP 72-1210. Sugar concentration (kg Mg\(^{-1}\)) of CP 88-1762 was essentially equal to that of the checks. Sugar yield (Mg ha\(^{-1}\)) equaled that of CP 70-1133 and exceeded that of CP 72-1210 by 26%.

CP 88-1762 was also evaluated in 5 replicated tests on sand soil (2 plant-cane, 2 first-ratoon, and 1 second-ratoon crops). Cane yield (Mg ha\(^{-1}\)) of CP 88-1762 was 3% greater than that of CP 70-1133 and 26% greater than that of CP 72-1210. Sugar concentration (kg Mg\(^{-1}\)) was 3% greater than CP 70-1133 but similar to that of CP 72-1210. Sugar yield (Mg ha\(^{-1}\)) of CP 88-1762 was 6% greater than CP 70-1133 and 32% greater than the yield of CP 72-1210.

CP 88-1762 has shown adequate resistance for commercial production in Florida to sugarcane mosaic virus; leaf scald (caused by *Xanthomonas albilineans* (Ashby) Dowson); eye spot (caused by *Bipolaris sacchari* (E.J. Butler) Shoemaker); smut (caused by *Ustilago scitaminea* Syd. & P. Syd.) and rust (caused by *Puccinia melanocephala* Syd. & P. Syd.). Preliminary results indicate CP 88-1762 is resistant to ratoon stunting disease (caused by *Clavibacter xyli* subsp. *xyli* Davis et al.). CP 88-1762 has a fiber content of 11.48%, compared with 10.37% for CP 70-1133 and 10.04% for CP 72-1210.

Seedcane will be maintained for a minimum of five years by the USDA-ARS at the Sugarcane Field Station, Canal Point, FL.

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References and Notes


Registration of ‘Tifleaf 3’ Pearl Millet

‘Tifleaf 3’ pearl millet (*Pennisetum glaucum* (L.) R. Br.) (Reg. no. CV-14, PI 592791) was released cooperatively by the USDA-ARS and the University of Georgia Coastal Plain Experiment Station in April 1995.

Tifleaf 3 is a three-way dwarf leafy forage hybrid with dwarf cytoplasmic–nuclear male-sterile single-cross Tift 8593 (1) and dwarf pollinator Tift 383 (4). Tifleaf 3 is a semidwarf forage hybrid reaching an uncut height of 222 cm, compared with 224 cm for Tifleaf 2, at the same planting date. Forage yields of Tifleaf 3 in six states during 3 yr were similar to those of Tifleaf 2. Heifers grazing Tifleaf 3 produced gains similar to those grazing Tifleaf 2. Yield of commercial Tifleaf 3 hybrid seed can usually be doubled by producing hybrid seed on Tift 8593 instead of on inbred Tift 85DA1. Increased seed yields of commercial Tifleaf 3 seed will keep seed prices reasonable and provide a high-quality summer annual for farmers and ranchers.

Breeder seed of this hybrid cultivar will be maintained for a minimum of five years by the corresponding author. It is proposed that Tifleaf 3 will be released under an exclusive or limited agreement. Genetic material of this release will be available for research purposes, including development and commercialization of new cultivars. Appropriate recognition be made if this germplasm contributes to the development of a new breeding line or cultivar.

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References and Notes


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