Registration of Tift 8593 Pearl Millet Genetic Stock

Tift 8593 pearl millet [Pennisetum glaucum (L.) R. Br.] (Reg. no. GS-2, PI 592891) was released cooperatively by the USDA-ARS and the Univ. of Georgia Coastal Plain Exp. Stn. in April 1995.

Tift 8593 is a cytoplasmic–nuclear male-sterile (cms) \(F_1\) hybrid from the cross Tift 85D\(\alpha_4\) (2) \(\times\) Tift 93 (1). Tift 93 maintains male sterility induced by the \(A_4\) cytoplasm. Tift 85D\(\alpha_4\) is maintained by pollinating with Tift 85D\(\beta_3\) (3); Tift 93 is maintained by open pollination in isolation. Tift 8593 produces up to twice as much commercial hybrid seed when pollinated with inbred Tift 383 to produce ‘Tifleaf 3’ (4) as does Tift 85D\(\alpha_4\) alone. Seeds are brownish-gray. Inflorescences of Tift 8593 are about 27 cm long, compared with 16 cm for Tift 85D\(\alpha_4\). Tift 8593 flowers about 71 and 84 d after 30 June and 7 May plantings, respectively.

Seed of this genetic stock will be maintained by the author. It is proposed that Tift 8593 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. It is requested that 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


Registration of Georgia Non-Nod Peanut Genetic Stock

Georgia Non-Nod peanut (Arachis hypogaea L. subsp. hypogaea var. hypogaea) genetic stock (Reg. no. GS-6, PI 595385) was released by the Georgia Agricultural Experiment Stations in 1994. It originated as an \(F_5\) segregate from the double cross PI 341879/PI 109839/PI 371965/F439-16-10-3. F439-16-10-3 is a component line of the cultivar, ‘Florunner’. Each of the four parental lines had normal nodulation. Pedigree selection was subsequently used to develop a pure-line genotype without nodulation, designated GA 84-94.

Sterility reactions in other environments have not been confirmed. Forty-three sorghum [Sorghum bicolor (L.) Moench] male-sterile genetic stocks (Reg. no. GS-53 to GS-95, PI 595314) were jointly developed by the Agricultural Research Division, Institute of Agriculture and Natural Resources, University of Nebraska, and USDA-ARS, 1983–1996. These lines have A2, A3, or A4 cytoplasm originating from the USDA-ARS, Wheat, Sorghum, and Small Grains, and the Dep. of Agronomy, University of Nebraska, Lincoln, NE 68583-0937, and will be provided without cost to each applicant on written request to the author.

References and Notes

5. USDA-ARS and Univ. of Georgia, Coastal Plain Exp. Stn., Tifton, GA 31793-0745. Project supported in part by DOE Grant no. DE-FG05-93ER200991. Registration by CSSA. Accepted 31 Oct. 1996. *Corresponding author (whanna@tifton.cpes.peachnet.edu). 

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