were 130 to 870 kg ha\(^{-1}\) higher than all other cultivars evaluated during this period. Grain volume weight of Jackson is similar to that of Saluda and has ranged from 765 to 780 kg m\(^{-3}\). Spike emergence of Jackson is similar to Saluda and 3 d later than 'Madison'. Average plant height of Jackson is 96 cm, which is similar to Madison and 5 cm taller than Saluda. Straw strength of Jackson is moderate, being similar to that of Saluda.

In the 1991–1992 USDA-ARS Uniform Southern Soft Red Winter Wheat Nursery, Jackson ranked fourth in grain yield within the region, with an average yield of 5260 kg ha\(^{-1}\) in tests conducted at 20 locations and representing 14 states. Jackson ranked sixth in grain yield (4320 kg ha\(^{-1}\)) in the 1992–1993 USDA-ARS Uniform Eastern Soft Red Winter Wheat Nursery, grown at 20 locations in 14 states within the region. Performance of Jackson in these nurseries suggests that it is adapted to areas outside the mid-Atlantic region as well.

Authorized seed classes of Jackson are breeder, foundation, and certified. Jackson is protected under the amended U.S. Plant Variety Protection Act of 1994 (Certificate no. 9500271). Breeder seed will be maintained by the Virginia Agricultural Experiment station under the auspices of the Department of Crop and Soil Environmental Sciences, Virginia Polytechnic Institute and University, Blacksburg. Foundation seed will be produced and maintained by the Virginia Crop Improvement Association via the Foundation Seed Farm, Box 78, Mount Holly, VA.

References and Notes


Registration of 'CP 84-1591' Sugarcane

'CP 84-1591' sugarcane (a complex hybrid of *Saccharum officinarum* L., *S. barberi* Jeswiet, *S. spontaneum* L., and *S. sinense* Roxb. emend. Jeswiet) (Reg. no. CV-103, PI 592802) was selected from progeny of the cross CP 72-1370 x CP 68-1022 made at Canal Point, FL, in December 1977. CP 84-1591 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 1994.

CP 84-1591 was tested only on sand soils and is recommended for planting on sand land. Stalks of CP 84-1591 are brownish when exposed to light and are large in diameter. Stalk weight averaged across three crops (plant-cane, and first- and second-ratoon crops) was 26% heavier than that of 'CP 70-1133' (1) and 40% heavier than the stalk weight of 'CP 72-1210' (2), the commercial checks. Averaged across six replicated yield trials (two locations harvested in plant-cane, first-ratoon, and second-ratoon crops), the sugar yield (Mg ha\(^{-1}\)) for CP 84-1591 at regular harvest (November–March) was equal to that of CP 70-1133 and 24% greater than that of CP 72-1210. Sugar concentration (kg Mg\(^{-1}\)) of CP 84-1591, at early harvest (last 2 wk of October) averaged 7% less than that of CP 70-1133 and 4% less than CP 72-1210. At regular harvest, CP 84-1591 yielded 3% less sugar than CP 72-1210 and 17% more sugar than CP 72-1210.

CP 84-1591 has shown adequate resistance for commercial production in Florida to sugarcane mosaic virus, leaf scald (*Xanthomonas albilineans* (Ashby) Dowson), eye spot (*Bipolaris sacchari* (E.J. Butler) Shoemaker), smut (*Ustilago scitaminea* Syd. & P. Syd.), and rust (*Puccinia melanocephala* Syd. & P. Syd.). CP 84-1591 has a millability rating of 0.987 and a fiber content of 9.04%, compared with 0.980 and 10.37% for CP 70-1133 and 0.965 and 10.37% for CP 70-1133 and 0.965 and 10.37% for CP 72-1210.

Seedcane will be maintained by the USDA-ARS Sugarcane Field Station, Canal Point, FL.

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