302 in grain volume weight and grain yield. Milling and baking quality characteristics of Georgia 100 are rated acceptable for soft red winter wheat use.

The spikes are middense, oblong, and erect. The glumes are glabrous, midwide, and short with square and midwide shoulder and acute beaks. Kernels are red, short, and ovate with a small germ; the kernel brush is short and large, and the kernel crease is narrow and deep.

In Georgia, Georgia 100 possesses excellent resistance to the locally predominant biotypes E, G, M, and O of Hessian fly, [Mayetiola destructor (Say)] and moderate resistance to current races of leaf rust caused by Puccinia recondita (Robe-erge ex Desmaz.) and stem rust caused by P. graminis (Pers.:Pers.) f. sp. tritici (Eriks. & E. Henn.), and moderate resistance to powdery mildew caused by Erysiphe graminis (DC.) f. sp. tritici (Ém. Marchal). It is moderately susceptible to septoria glume blotch caused by Phaeosphaeria nodorum (E. Müller) Hedjaroude.

Breeder seed of Georgia 100 is maintained by the Georgia Agricultural Experiment Station, University of Georgia, Georgia Station, Griffin, GA 30223-1797.


References and Notes

1. J.W. Johnson and P.L. Raymer, Dep. of Agronomy; J.J. Roberts, USDA-ARS and Dep. of Agronomy; B.M. Cunfer, Dep. of Plant Pathology; and G.D. Buntin, Dep. of Entomology, Univ. of Georgia, Georgia Station, Griffin, GA 30223-1797; and P.L. Bruckner, Dep. of Agronomy, Coastal Plain Station, Tifton, GA 31793. This contribution was supported by State and Hatch funds allocated to the Georgia Agric. Exp. Stn. and USDA-ARS. Registration by CSSA. Accepted 31 July 1990. *Corresponding author.


REGISTRATION OF 'TUCCP 77-42' SUGARCANE

'TUCCP 77-42', a BC, progeny of an interspecific hybrid of Saccharum officinarum L., S. spontaneum L. and S. barberi Jeswiet, and S. spontaneum clone SES 147B (Reg. no. CV-83, PI 542964), was developed through cooperative research of the Estacion Experimental Agro-Industrial "Obispo Colombes," Tucumán, Argentina, and the USDA-ARS. It was released in the fall of 1989. TUCCP 77-42 was selected from progeny of the cross CP 71-321 × US 72-19, which was made at Houma, LA, in 1975. (Early-generation hybrids from new basic breeding lines not assigned CP [Canal Point] numbers at Houma are assigned US [United States] breeding numbers and used in the breeding program as nonrecurrent parents for another cycle of backcrossing with selected interspecific hybrids used as recurrent parents). The cultivar produces a sizable population of medium-sized, green stalks of average stalk weight.

TUCCP 77-42 is considered moderately resistant to post-freeze deterioration of stalks caused by substantial freeze (−6.0 °C).

TUCCP 77-42 is considered moderately resistant to spread of sugarcane mosaic virus in the field caused by Ustilago scitaminea Syd. & P. Syd., and red stripe caused by Xanthomonas albilineans Dowson, and it appears resistant to rust caused by Puccinia melanocephala Syd.; however, it has shown symptoms of resistance to Xanthomonas albilineans (Ashby) Dowson and Potomac.

Seed cane of TUCCP 77-42 will be marketed through the Estacion Experimental Agro-Industrial "Obispo Colombes," Tucumán, Argentina.

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References and Notes


REGISTRATION OF 'BENCHMARK' ORCHARDGRASS

'BENCHMARK' orchardgrass (Dactylis glomerata L. CV-140, PI 538331) is a hay and pasture use cultivar developed and released in August 1989 by the FFR Cooperative.

Benchmark is a 12-clone synthetic tracing to clones visually selected in 1979 and 1980 from nurseries in West Lafayette, IN, and Orange, VA, and from old yield trial plots in West Lafayette. The best of these selections was used to establish solid-seeded progeny plots. The 12 clones that make up Benchmark were selected in 1985 based on high progeny forage-yield data during 2 yr at West Lafayette and on high clonal seed yields during 2 yr at Salem, OR.

Benchmark’s area of adaptation is similar to that of 'Hallmark' and 'Potomac'. It is an early to medium maturing cultivar, similar in heading date to Hallmark, and several days earlier than cultivars such as 'Pennlate'. Resistance of Benchmark to stem rust (caused by Puccinia graminis Pers.: Pers.) appears greater than that of Hallmark and Potomac, and that Benchmark is somewhat darker in color than Hallmark and Potomac.

Benchmark will be maintained as a three-generation cultivar: breeder, foundation, and certified. Certified seed may be made for U.S. Plant Variety Protection.