the Lolium endophyte (Acremonium lolii Latch, Christensen and Samuels), and good progeny performance in closely mowed turf trials receiving severe summer stress at North Brunswick, NJ. Progenies of the eleven parental clones of SR-4000 were established in an isolated spaced-plant nursery near Hubbard, OR for the final cycle of selection for improved uniformity, increased disease resistance, higher seed yield, and attractive appearance. The first certified seed was produced in western Oregon in 1986.

SR-4000 is an attractive, leafy, persistent, turf-type perennial ryegrass with a medium fine texture, a medium high density, and a bright, dark green color. It is capable of producing a moderately low-growing turf with improved mowing qualities, good winterhardness, very good summer performance, and excellent wear tolerance. SR-4000 has good seedling vigor and the ability to produce high seed yields. It shows good resistance to most present races of crown rust (incited by P. coronata Corda), stem rust, the winter net blotch disease and also the large brown patch disease (caused by Rhizoctonia solani Kuhn). SR-4000 is recommended for home lawns, parks, sports turf, school grounds and play areas in regions where the improved turf-type ryegrasses are well adapted as a permanent turf. It also performs well for the annual winter overseeding of dormant warm season turfgrasses throughout the southern USA and in similar areas around the world. Seed lots of SR-4000 containing high percentages of viable Lolium endophyte can be expected to produce turf with enhanced resistance to many harmful turfgrass insects including billbugs (Sphenophorus spp.) and many lepidopterous species of sod webworms (1, 3, and 4). Freshly harvested seed or seed stored under dry, cool conditions should be used in the propagation of SR-4000 to maintain the viability and effectiveness of the Lolium endophyte. However, seed containing high levels of viable endophyte should not be used to establish fields for pasture or forage.

Plants containing the Lolium endophyte may have an adverse effect on animal health and performance under certain conditions (2).

Breeder seed of SR-4000 will be produced and maintained by Pure-Seed Testing. Propagation is limited to three generations of increase from breeder seed—one each of foundation, registered, and certified.

Application (no. 8700155) has been made for United States Plant Variety Protection.

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References and Notes

5. W.A. Meyers and C.A. Rose-Fricker, Pure-Seed Testing, Inc., P.O. Box 449, Hubbard, OR 97032; M.R. Robinson, Seed Res. of Oregon, Inc., 644 SW 13th Street, Corvallis, OR 97333; and C.R. Funk, Soils and Crops Dep., New Jersey Agric. Exp. Stn., Cook College, Rutgers Univ., New Brunswick, NJ 08903. Publication no. D-15166-10-87, New Jersey Agric. Exp. Stn. Some of this work was conducted as part of NJAES Project no. 15426, supported by New Jersey Agric. Exp. Stn. funds, other grants, and gifts. Additional support was received from the U.S. Golf Assoc.—Golf Course Superintendents Assoc. of Am. Res. Fund. Registration by CSSA. Accepted 30 Oct. 1988. *Corresponding author.

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