REGISTRATION OF CROP CULTIVARS


REGISTRATION OF ‘BLISS’ WHEAT

‘BLISS’ soft white spring wheat (Triticum aestivum L.) (Reg. no. 714), PI 486350, was selected from a cross of ‘Hyslop’/‘Fielder’ made in 1971. It was developed cooperatively by the Idaho Agricultural Experiment Station and USDA-ARS. Bliss was tested in the Idaho yield nurseries as ID0172 for 8 yrs (1976 to 1983) and in the Western Regional Spring Wheat Nursery for 3 yrs (1980 to 1982). It was released jointly by the Idaho and Oregon Agricultural Experiment Stations and USDA-ARS in 1984.

Bliss is a semidwarf cultivar that has erect to inclined, oblong, mid dense, awned spikes. Glumes are long and mid dense, oblong to fusiform, and tip-awned. The kernels are soft, white, acuminate, and 3 to 5 mm long. The test weight of grain from Bliss has been slightly lower than that from Owens, a lower black point percentibility from a quality standpoint. Bliss, Owens, and ‘Wavely’ averaged 7244, 6297 and 6303 kg ha⁻¹ in tests at Ontario, Oregon in 1980 and 1981. Bliss, Owens, 14th, and 1st in average yield, respectively in the 1981 and 1982 Regional Spring Wheat Nurseries which consisted of 35 to 37 entries grown at 17 locations. The test weight of grain from Bliss has been slightly lower than that from Owens. Foundation seed of Bliss will be maintained at the University of Idaho, Aberdeen Research and Extension Center, Box AA, Aberdeen, ID 83210.

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REFERENCES AND NOTES


REGISTRATION OF ‘ROSEN’ WHEAT

‘ROSEN’ (Reg. no. 715) CI 17607, is a soft red winter wheat (Triticum aestivum L.) developed by the Arkansas Agric. Exp. Stn. Rosen originated as an F₃ single plant selection from a cross ‘Arthur’/‘Blueboy’ made in 1969. The progeny were bulked in the F₄ to F₆ generations. Due to excessive variability for height and maturity, a reselection was made for uniformity in the F₆. The resulting 54 sib lines that had been increased two generations from single plants were composited in the F₁₁ for breeder seed.

Rosen was tested as AR 38-1 in the Uniform Eastern Soft Red Winter Wheat Nursery from 1975 to 1978, from 1977 to 1978 in the Uniform Southern Soft Red Winter Wheat Nursery from 1975 to 1978, from 1977 to 1978 Regional nurseries, Rosen outyielded ‘Oasis’ by 13% over 65 location-years and in the state-wide yield trials from 1976 to 1984, Rosen outyielded ‘Doublecrop’ by 12%. Under Arkansas conditions, Rosen has shown good resistance to soil-borne mosaic virus, but susceptible to several races of powdery mildew incited by Erysiphe graminis DC. f. sp. tritici. It is resistant to soil-borne mosaic, moderately susceptible to several races of powdery mildew incited by Erysiphe graminis DC. f. sp. tritici E. Marchal.

Rosen was released in 1980 and named in honor of the late Dr. H.R. Rosen, a plant pathologist at the Univ. of Idaho, Aberdeen Research and Extension Center, Box AA, Aberdeen, ID 83210.

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Laboratory, Wooster, Ohio, indicate that Rosen has satisfactory milling and baking qualities, comparable to ‘Doublecrop’. Rosen has winterhardiness similar to that of ‘Doublecrop’. Rosen has shown good resistance to septoria tritici blotch, incited by Mycosphaerella gramincola (Fuckel) Schroeter and moderate resistance to several races of leaf rust caused by Puccinia recondita (Fuckel) Schroeter f. sp. tritici. It is resistant to soil-borne mosaic and susceptible to several races of powdery mildew incited by Erysiphe graminis DC. f. sp. tritici E. Marchal.

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