aptation, its yield has been less than that of Newton. Based on composite grain samples from the regional and state performance tests, Arkan has good overall hard-wheat milling and bread-making properties. It has a somewhat longer than medium mixing time and a very good loaf volume potential. Grain and flour protein contents of Arkan have averaged one percentage point more than those of Newton.

Arkan is resistant to: soilborne wheat mosaic virus; leaf rust, caused by Puccinia recondita Rob. ex Desm. f. sp. tritici Eriks (Lr24 plus at least one additional unidentified Lr gene); stem rust, caused by P. graminis Pers. f. sp. tritici Eriks and E. Henn (Sr6, Sr24, and SrT1-1); powdery mildew, caused by Erysiphe graminis f. sp. tritici Em. Marchal; and Hessian fly, Mayetiola destructor Say (H3). It is moderately resistant to Cephalosporium stripe, caused by Cephalosporium gramineum Nisikado and Ikata. Arkan is very susceptible to wheat streak mosaic virus.

Variety protection has been applied for under the Plant Variety Protection Act, Public Law 91-577. Breeder seed of Arkan is maintained at the Ft. Hays Branch Exp. Stn., Hays, KS 67601.


References and Notes


REGISTRATION OF WINRIDGE WHEAT

‘WINRIDGE’, CI 17902, is a hard red winter wheat (Triticum aestivum L.) (Reg. no. 677) developed cooperatively by the Montana Agricultural Experiment Station and USDA-ARS. Winridge was tested as MT 77077 in state and regional dwarf bunt (caused by Tilletia controversa Kühn) screening trials from 1976 through 1980 and in state and regional yield trials from 1978 through 1981. This cultivar was named and released in 1981 with foundation seed available to the public for planting that fall. It originated from an F1 line selected at Montana State University, Bozeman. The pedigree is C61-9/‘Winalta’/‘Crest’. C61-9 is a stripe rust (caused by Puccinia striiformis West.) and dwarf bunt resistant selection from the cross ‘Burt’/PI 178383. Winridge is intended to replace Crest.

Variety protection has been applied for under the Plant Variety Protection Act, Public Law 91-577. Breeder seed will be maintained by the Montana Agricultural Experiment Station and USDA-ARS. Published with the approval of the Director, Montana Agric. Exp. Stn. as Paper no. 1364. Registration by Crop Sci. of Am. Accepted 6 June 1983.

REGISTRATION OF REDWIN WHEAT

‘REDWIN’, CI 17844, is a hard red winter wheat (Triticum aestivum L.) (Reg. no. 678) developed cooperatively by the Montana Agricultural Experiment Station and USDA-ARS. Redwin was tested as MT 7216 in Montana trials from 1971 through 1979 and in regional trials in 1977 and 1978. Redwin was named and released in 1979 with foundation seed available to the public in September of that year. Redwin was selected as a stiff-strawed, shatter resistant F3 line at Montana State University, Bozeman. The name Winridge combines “Win” from one parent, “Red” from a Montana farmer-cooperator who for years provided land for a dwarf screening nursery.

Breeder and Foundation seed will be maintained by the Montana Agricultural Experiment Station and USDA-ARS. Registration by Crop Sci. of Am. Accepted 6 June 1983.