REGISTRATION OF WARED WHEAT1
(Reg. No. 549)

C. F. Konzak and E. Donaldson2

‘Wared’ (CI 15926) is a semidwarf spring wheat (Triticum aestivum L.) selection from the cross ‘Thatcher’ × ‘Supreza’ × ‘Frontana’ × ‘Kenya 58’ × ‘Newthatch’. It was made by the AWBR and released in 1973. Wared has been tested as selection MN205264 for 5 years in the Washington State advanced yield trials and for 4 years under irrigation. In addition, it has been tested in the Western Regional Spring Wheat Nursery since 1971.

Wared is midseason to late in maturity. The spike is awned fusiform, and middense, being similar in appearance to its sister varieties, ‘Era’ and ‘Fletcher’, released by Minnesota. It has white straw, awns, and glabrous glumes. Kernels are red, short, hard, and ovate, and the brush is midsized. Wared is superior in yielding ability to current hard red spring wheat varieties both in irrigated and nonirrigated culture in Washington. In low rainfall areas (below 28 cm), it may produce short tillers which are difficult to harvest. Thus, it is primarily recommended for areas with intermediate to higher rainfall (above 28 cm) and irrigated areas. Wared has shown good resistance to mildew, fair resistance to the prevalent races of stripe rust, and resistance to many races of stem rust and leaf rust.

The flour yield and other milling properties of Wared are slightly better than those of ‘Fortuna’ and equal to those of ‘Peak 72’. The baking properties are superior to Fortuna and Peak 72 for white pan bread production. Wared is not as strong as Peak 72 in dough strength.

Seed classes of Wared are breeder, foundation, registered, and certified. Washington State University, in cooperation with the Purdue University Agricultural Experiment Station and the ARS, USDA, approved for publication by the Crop Science Society of America. Cooperative research with the applicants, major contributions to the development of Washington State University; R. M. Caldwell, retired; and L. E. Compton, ARS, USDA.

Wared was selected in 1960 in the F2 generation following a complex series of crosses with the parental varieties ‘Miniation’ × ‘Hungarian’ × ‘W38’ × ‘Redcoat’ sib × Wis CI1263 × ‘Hope’ × ‘Hussar’ × ‘Fulhio’. The various experimental lines derived from this complex cross were used in research and breeding at the ARS facilities from 1964.

Arthur is early maturing (F13) and of intermediate height (88 cm). Spikelets are awnless, medium yellow, and general features are characteristic of a good hard red winter wheat. Arthur is widely adapted in the eastern soft wheat region of the United States. It occupies 70% of the wheat acreage in the states of Ohio, Indiana, and Michigan. Arthur has high spikelet fertility, high yield potential, high resistance to many races of stem rust, and good resistance to powdery mildew. Arthur is an easy-to-harvest variety with amber kernels that are smaller in size than those of Leeds, but about equal to those of Wells. The germ of the kernel is large and the brush is midsized and of medium size.

The semolina yield is high and the flour yield is excellent. Arthur is widely adapted in the eastern soft wheat region of the United States. It occupies 70% of the wheat acreage in the states of Ohio, Indiana, and Michigan. Arthur is an easy-to-harvest variety with amber kernels that are smaller in size than those of Leeds, but about equal to those of Wells. The germ of the kernel is large and the brush is midsized and of medium size.

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REGISTRATION OF WANDELL DURUM WHEAT1
(Reg. No. 550)

C. F. Konzak2

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