been submitted for protection under the U.S. Plant Variety Protection Act, Public Law 91-577 by the Nebraska Agricultural Research Division and will be sold only as a class of certified seed. Seed classes designated by the Nebraska Agricultural Research Division are breeder, registered, foundation, and certified. Breeder seed will be maintained by the Nebraska Agricultural Research Division.


References and Notes


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REGISTRATION OF 'REDLAND' WHEAT

'REDLAND' wheat (Triticum aestivum L.) (Reg. no. 741), PI 502907, is a hard red winter wheat comprised of 24 lines selected for uniform stem rust resistance from 'Brule' wheat (1). One hundred spikes were selected from Brule in 1981 and seeded as head rows that fall. Composites of urideospores of stem rust (caused by Puccinia graminis Pers. f. sp. tritici Eriks. and E. Henn.) applied to the head row nursery in the spring of 1982 and 1983 and resistant head rows were selected for seed increase. In 1984, 24 resistant lines were harvested and composited for breeder seed increase. In 1985, the breeder seed increase was tested state wide as NE 851182. After harvest it was distributed to the Foundation Seed Division for seed increase and for evaluation in milling and baking tests. In 1986 it was tested as NE 851182 in the Southern and Northern Regional Performance Nurseries.

Redland differs from Brule for stem rust resistance. Brule is heterogenous for stem rust reaction while Redland is resistant. Redland has the delayed susceptibility (incited by Puccinia recondita Rob. ex Desm.) to its parent, 'Gage'. It has shows low infection to powdery mildew (caused by Erysiphe graminis D.C. f. sp. tritici E. Marchal). It was intermediate in reaction to soilborne wheat mosaic virus, and it is tolerant to wheat streak mosaic virus. Redland has the 'Kawvale' type of resistance to the Great Plains Hessian fly [Mayetiola destructor (Say)]. Redland has hard wheat milling properties. Flour of Redland is superior to 'Scout 66' in bread baking properties, long dough mixing tolerance, and loaf volume.

Redland differs very slightly from Brule. It is 1 cm shorter in height (about 4 cm) and about 0.5 d later in maturity. It has been shorter in beak length, averaging about 1.5 mm shorter than for Brule. Redland was named and released in 1986 by the Nebraska Agricultural Research Division to be sold only as a class of certified seed. Seed classes designated by the USDA-ARS. It has been submitted for protection under the U.S. Plant Variety Protection Act, Public Law 91-577 by the Nebraska Agricultural Research Division.


References and Notes


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