REGISTRATION OF ‘VIRDEN’ BARLEY

‘VIRDEN’ barley (Hordeum vulgare L.) (Reg. no. 209) (PI 512037) (Canadian Reg. no. 2834) was developed by the Agriculture Canada Research Station, Brandon, Manitoba, Canada, and released 1 May 1987. It was tested as BT 363 for 3 yr prior to registration in the Canadian Western Cooperative Six Row Barley Test. Virden originated as a single F_4 plant from the cross WA6415-66//'Bonanza'/NDB136//UM67-739R/Bonanza//Dickson'. WA6415 originated from Washington State University, NDB136 originated from North Dakota State University, and UM67-739R originated from the University of Manitoba. Virden was selected, using the pedigree method, through the F_5 generation, and tested in replicated trials from the F_6 to F_11 generation.

Virden is a six-rowed spring feed barley with smooth awns. The covered kernels have white (yellow) aleurone and short to midlong rachillas with long hairs. Glumes show long awns and few hairs. The spike is midlong to long, semierect, and semilax. Virden is late-maturing with strong straw of medium height. It is resistant to Cochliobolus sativus (Ito & Kurib. in Kurib.) Drechs ex Dast. (common root rot) and to Puccinia graminis f. sp. tritici Eriks. & E. Hen. (stem rust), and moderately resistant to Pyrenophora teres Drechs. (net blotch), Ustilago nigr a Topke (false loose smut), and U. hordeii (Pers) Lagerh. (covered smut). Virden is moderately susceptible to U. nuda (Jens.) Rostr. (loose smut). It does not meet quality standards for Canada Select malting grades, but is eligible for all other Western Canadian barley grades.

On average, Virden yielded 12 and 6% more than ‘Bedford’ and ‘Heartland’, respectively, when tested in the Canadian Western Co-operative Six Row Barley Test (WCOOP) from 1984 to 1986, inclusive (72 site-yr). Test weight is 4% less and the 1000-kernel weight is 20% greater than Bonanza, in 3 yr of testing in the WCOOP. Also, straw strength of Virden is equal to or better than that of Bedford or Heartland, and straw length is equal to that of Bonanza. Virden matures 4 d later than Bonanza.

This cultivar is named for the city of Virden, Manitoba, which borders with eastern Saskatchewan and is central to its area of adaptation. Seed of Virden will be distributed by SeCan (Canada) Association, Ottawa, Ontario.

M. C. Therrien,* R. B. Irvine, K. W. Campbell, and R. I. Wolfe (1)

References and Notes

1. M.C. Therrien, Barley, Breeding and Genetics, Agriculture Canada Res. Stn., Box 610, Brandon, Manitoba, Canada R7A 6Z7; R. B. Irvine, Saskatchewan Irrigation Development Centre, Outlook, Saskatchewan, Canada S0L 2N0; K.W. Campbell, Seeds Division, CIBA-GEIGY, London, Ontario, Canada LSN 2W5; R.I. Wolfe, Agriculture Canada Res. Stn., Beaverlodge, Alberta, Canada T0H 0C0. Registration by CSSA. Accepted 30 Oct. 1987. *Corresponding author.

REGISTRATION OF ‘WEBSTER’ OAT

‘WEBSTER’ oat (Avena sativa L.) (Reg. no. 208) (PI 158469) (Canadian Reg. no. 319) (PI 512038) was developed by the Iowa Agriculture and Home Economics Experiment Station in cooperation with the USDA, and released in 1984. This cultivar is a composite of lines that differ in genes for resistances to the barley yellow dwarf virus (BYDV), barley green mosaic virus (BGMV), common root rot, and net blotch. The composite was developed by the Webster isolines and contains genes for resistance to crown rust, BYDV tolerance, intraline uniformity, and lodging resistance.

Monida is a midseason, relatively tall spring oat with green foliage and equilateral panicles. Juvenile growth is erect. Leaf sheath, leaf margins, and culm internodes are glabrous. Kernels of Monida are typically white in color, and similar in appearance to those of Otana. Monida is taller than Cayuse but shorter than Otana. It has averaged 20% more groat in groat content but averaged 71.9% in regional trials. Test weight of Monida ranged from 95% to 98% of Otana under irrigation. Monida averaged 107% of Cayuse and 114% of Otana in yield.

Breeder and foundation seed will be maintained by the University of Idaho Tetonia Research and Extension Center, P.O. Box 1231, Star Route, Newdale, Idaho 83856.

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References and Notes


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