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 F4 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 F5 generation, and tested in replicated trials from the F6 to F1 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. Henn. (stem rust), and moderately resistant to Pyrenophora teres Drechs. (net blotch), Ustilago nigragina Topke (false loose smut), and U. hordei (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


We gratefully acknowledge the assistance of D.E. Bed- ford, ID and the Uniform Northwestern States Oats Nursery in the development and evaluation of Virden.

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REGISTRATION OF 'WEBSTER' OAT

'WEBSTER' oat (Avena sativa L.) (Reg. no. 168) (PI 512038) (Canadian Reg. no. 284) was developed by the Iowa Agriculture and Home Economics Experiment Station in cooperation with the University of Idaho Tetonia Research and Extension Center in 1976 and entered in the Uniform Northwestern States Oat Nursery in 1979.

Monida is a midseason, relatively tall spring oat with blue-green foliage and equilateral panicles. Juvenile plant growth is erect. Leaf sheath, leaf margins, and culm internodes are glabrous. Kernels of Monida are typical white in color, and similar in appearance to those of Cayuse. Monida is taller than Cayuse but shorter than Otana. Monida is similar to Cayuse and Otana in lodging resistance, and grown western oat cultivars in test weight. Test weight of Monida ranged from 95% to 98% of Otana under irrigation. Monida is in great content but averaged 71.9% in trials vs. 70.0% for Cayuse. It has averaged about one percentage point lower than Cayuse and one point higher than Otana in regional trials.

Monida averaged 107% of Cayuse and 99% of Otana in test weight in 70 station-yr of testing (1978–1987) in the Uniform Northwestern States Oat Nursery regional dryland trials. In 1978–1987, Monida averaged 102% of Cayuse and 108% of Otana for Triunfo. For Otana, Monida exceeded Cayuse and is similar to Otana in grown western oat cultivars in test weight. Test weight of Monida ranged from 95% to 98% of Otana under irrigation. Monida has averaged about one percentage point lower than Cayuse and one point higher than Otana in regional trials.

Monida averaged 99% of Cayuse and 100% of Otana in test weight in 70 station-yr of testing (1978–1987) in the Uniform Northwestern States Oat Nursery regional dryland trials. In 1978–1987, Monida averaged 102% of Cayuse and 108% of Otana for Triunfo. For Otana, Monida exceeded Cayuse and is similar to Otana in grown western oat cultivars in test weight. Test weight of Monida ranged from 95% to 98% of Otana under irrigation. Monida has averaged about one percentage point lower than Cayuse and one point higher than Otana in regional trials.

Monida 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. Henn. (stem rust), and moderately resistant to Pyrenophora teres Drechs. (net blotch), Ustilago nigragina Topke (false loose smut), and U. hordei (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.

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