Registration of ‘Bobcat’ Triticale

‘Bobcat’ (Reg. no. CV-17, PI 608011) is a winter triticale (× Triticosecale Wittmack), released in 1999 by the Field Crop Development Centre, Alberta Agriculture Food and Rural Development, Lacombe, Alberta, Canada (Canadian Reg. no. 4945). Bobcat was derived from the cross 7631-ED4B/RL4137//7431A-68E4/3/Panther ‘S’/4/87ED01. The first cross was made in 1983 in Lacombe, Alberta. 7631-ED4B is a sprouting tolerant (1) triticale line introduced from the Agriculture & Agri-Food Canada at Swift Current, Saskatchewan, Canada. RL4137 is an apically awnletted spring wheat introduced from Agriculture & Agri-Food Canada, Winnipeg, Manitoba, Canada. The F1 was topcrossed in 1984 to 7431A-68E4, a sprouting tolerant triticale line developed at Swift Current. The F1 of the topcross was subsequently crossed with Panther ‘S’, a triticale line with sprouting tolerance that was developed by the International Maize and Wheat Improvement Center (CIMMYT), Mexico. A short awnletted F2 selection from the spring population was crossed with the winter hardy germplasm triticale line 87DE01 in 1988. Bobcat was tested as 88DL0170 which was selected from F2 headrows in 1991. Bobcat was evaluated in winter hardiness nurseries for yield and agronomic performance in the Western Canadian trials from 1994 to 1998. Breeder seed of Bobcat was derived from a bulk of 60 F11 lines.

Bobcat is awnletted, short stature, with semi-erect growth habit. Bobcat has good winter hardiness similar to ‘Pika’ (2). Leaves are medium green, medium wide, and medium long with glabrous sheaths and blades. The flag leaf is erect, medium green, medium wide and medium long. Spikes are tapering, medium dense, erect, medium long, and waxy with very fine short awnlettes. Glumes are yellow at maturity, medium wide and medium long. Glume shoulders are oblique. The beak is short with an acute tip. Kernels are light red, medium wide, medium long, and elliptical. The brush is midlong. Cheeks vary from angular to round shape; the crease is midwide and middeep.

In 13 location-years, in the Canadian prairies, Bobcat yielded 7049 kg ha⁻¹, 110% of the winter triticale check, Pika, and 113% of the winter wheat Norstar. In the same test, in 12 location-years, the test weight of Bobcat was 66 kg hL⁻¹ compared to 67 kg hL⁻¹ for Pika and 78 kg hL⁻¹ for Norstar. The average height of Bobcat was 102 cm, 20 cm shorter than Pika and 2 cm shorter than Norstar. Maturity of Bobcat is 228 d, similar to Pika and 3 d later than Norstar. Bobcat has excellent lodging resistance compared to Pika and Norstar. Protein content of Bobcat is similar to Pika. It is intended as a feed grain and for livestock market.

References and Notes

3. Alberta Agriculture, Field Crop Development Centre, Lacombe, AB, T4L 1W8 Canada. The technical names are Dyson, Michael Orso, Sandra Spence, and William A. Smith, fully acknowledged. Registration by CSSA. Accepted 31 Dec. 1999. *Corresponding author (dwg@gnv.ifas.ufl.edu).