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Registration of ‘NE422T’ Winter Triticale

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Registration of ‘NE422T’ Winter Triticale

NE422T triticale (\textit{\textit{Triticosecale} Wittmack}) (Reg. no CV-27, PI 629028) was developed cooperatively by the Nebraska Agricultural Experiment Station and the USDA-ARS. It was jointly released in 2001 by the developing institutions. NE422T was selected from the cross ‘Trical’/UB-UW26’ where Trical is most likely ‘Trical 100’ (a forage triticale developed by Resource Seed Inc., a subsidiary of Goldsmith Seed Company, Gilroy, CA) and UB-UW26 is an unknown winter triticale germplasm line given to the breeding program in the 1980s. The cross was made in 1990. The F\textsubscript{1} generation was grown in the greenhouse in 1990-1991. The F\textsubscript{2} and F\textsubscript{3} generations were grown in bulk at the Agronomy Farm at Lincoln, NE, 1992 and 1993, respectively. Random heads were chosen from the F\textsubscript{3} bulk and planted as head rows, which were harvested in 1994. NE422T is an F\textsubscript{3}-derived line that was visually selected in the F\textsubscript{4} generation on the basis of its forage potential. The F\textsubscript{4}-derived F\textsubscript{5} family was harvested as a single observation plot in 1995. NE422T was identified as NE96T422 and was grown at three unreplicated locations in 1996 and in replicated trials thereafter. NE422T was released primarily for its superior forage production in rainfed winter cereal production systems in Nebraska and similar areas in adjacent states.

NE422T is an awned, white-glumed cultivar whose primary use will be as an annual forage crop. Its field appearance is most similar to Trical 100. Kernels are red colored, elliptical, large, and slightly wrinkled. After heading, the canopy is moderately closed and upright. The flag leaf is recurved and not twisted at the boot stage. The foliage is green with a waxy bloom at anthesis. The peduncle is glabrous. The spike is oblong in shape and middense. The glume is pubescent, tan, narrow, and midlong and the glume shoulder is wanting. The beak has an acuminate tip. The spike is usually nodding at maturity. Based on plump kernels, the kernel has no collar, a large brush of long length, rounded cheeks, large germ, and a narrow and deep crease.

NE422T was performance tested as NE96T422 in Nebraska
CROP REGISTRATIONS

435

The Nebraska Foundation Seed Division, Dep. of Agronomy and Horticulture, University of Nebraska-Lincoln, Lincoln, NE 68583 had NE422T Foundation seed available to qualified certified seed enterprises (members of NuPride Genetics Network, part of the Nebraska Crop Improvement Association) in 2000 for seed increase. The first commercial sale of NE422T was made in August, 2001. The U.S. Department of Agriculture will not have seed for distribution. The seed classes will be Breeder, Foundation, Registered, and Certified. The Registered seed class will be a nonsalable seed class. NE422T will be submitted for registration and U.S. Plant Variety Protection under P.L. 10577 with the certification option. A research and development fee will be assessed on all certified seed sales. Seed of NE422T is available for research purposes and as a parent for breeding.

P.S. BAENZIGER* AND K.P. VOGEL

References


P.S. Baenziger, Dep. of Agronomy and Horticulture; and K.P. Vogel, USDA-ARS and Dep. of Agronomy and Horticulture, Univ. of Nebraska, Lincoln, NE 68583-0915. Cooperative investigations of the Nebraska Agricultural Experiment Station. The Nebraska Foundation Seed Division, Dep. of Agronomy and Horticulture, University of Nebraska-Lincoln, Lincoln, NE 68583 had NE422T Foundation seed available to qualified certified seed enterprises (members of NuPride Genetics Network, part of the Nebraska Crop Improvement Association) in 2000 for seed increase. The first commercial sale of NE422T was made in August, 2001. The U.S. Department of Agriculture will not have seed for distribution. The seed classes will be Breeder, Foundation, Registered, and Certified. The Registered seed class will be a nonsalable seed class. NE422T will be submitted for registration and U.S. Plant Variety Protection under P.L. 10577 with the certification option. A research and development fee will be assessed on all certified seed sales. Seed of NE422T is available for research purposes and as a parent for breeding.

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