

# SHARP BROS. SEED CO.

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## NE422T: A New Forage Triticale

License: NE 422 Triticale is licensed to NuPride Genetics Network (September 2000).

**Primary Advantage:** NE422T is tall, forage triticale with good forage yield, good winterhardness, and good dryland grain yield for a forage triticale. It has acceptable test weight for a triticale (note triticale test weight is 48 lbs/bu).

**Origin and Pedigree:** NE422T is a forage triticale developed cooperatively by the Nebraska Agricultural Experiment Station and the USDA-ARS. NE422T was derived 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.

**U.S. Protected Variety:** (Pending) Seed of NE422T will be protected and may be sold only as a class of Certified seed. Seed of triticale does not maintain its viability like wheat. This is an important consideration when determining seed needs.

**Maturity:** NE422T is late in maturity (7 days later than Newcale, 6 days later than Presto, 5 days later than Arapahoe, and 1 day earlier than Trical 100) with good winterhardness.

**Height/Standability:** NE422T is a tall, forage triticale (58 in); 3 in taller than Trical 100, 12 in taller than Presto and Newcale, and 19 in taller than Arapahoe. Straw strength is average for a tall triticale cultivar.

**Disease/Insect Reaction:** NE422T is moderately resistant to the currently prevalent races of stem rust (caused by *Puccinia graminis Pers.: Pers.f.sp. tritici* Eriks & E. Henn; most likely containing Sr31) an leaf rust (caused by *P. triticana* Eriks.) Like most ryes and triticale, NE422T is moderately resistant to wheat streak mosaic virus. Ergot (*Claviceps purpurea* (Fr:Fr) Tul.) has not been found in the cultivar when the disease was present in the other triticale under similar growing conditions.

**Adaptation./Management:** Forage yield trials indicate NE422T is a competitive forage triticale throughout Nebraska and surrounding states. NE422T has good fall growth habits and early spring growth. Good forage for fall and spring grazing as well as a silage and forage hay crop.

**Summary:** NE422T is a white chaffed, awned, forage triticale that has performed well throughout Nebraska. It has a good disease resistance package and good winterhardness. As an annual forage crop, it should provide producers with additional flexibility and options in their cropping systems.

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