

Origin of other malting

barley varieties currently grown in
North Dakota

Drummond – North Dakota State
University, 2000

Robust – University of Minnesota, 1983

Lacey – University of Minnesota, 1999

Tradition – Busch Agricultural
Resources, Inc., 2003

Legacy – Busch Agricultural
Resources, Inc., 2000

Conlon – North Dakota State
University, 1997 (two-rowed)

Plant Quality Certified Seed

Certified seed is a guarantee for
variety identity, germination, and
purity. Contact your local seed
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seed.

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found in the North Dakota Field
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Dakota State Seed Department
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PVP status of a specific crop variety
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AGRICULTURE

Stellar-ND Barley



www.ndcropimprovement.org

For information on the availability of Foundation seed contact a Foundation seed representative at:

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Agronomy Seed Farm, Casselton 347-4743
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North Central Research Ext. Center 857-7679
Williston Research Extension Center 774-4315
NDSU Campus Office 231-8140

NDSU Foundation Seedstocks Project

P.O. Box 5051

Fargo, ND 58105-5051

www.ag.ndsu.nodak.edu/aginfo/seedstock/fss/

Stellar-ND Barley

Stellar-ND was developed by the NDSU Agricultural Experiment Station six-rowed barley breeding program in cooperation with the USDA-Agricultural Research Station. Stellar-ND was selected from the progeny of the cross: Foster//ND12200/6B88-3213 (ND12200 is an NDSU experimental line and 6B88-3213 is an experimental line from Busch Ag. Resources, Inc.). Development of this variety was made possible in part through funds provided by the American Malting and Brewing Association and the North Dakota Barley Council.

Through several years of testing, Stellar-ND has exhibited grain yields similar to or better than the highest yielding varieties available. Straw strength of Stellar-ND is superior to all currently grown varieties with the exception of Drummond, which has a slightly better lodging score. Overall, Stellar-ND does not provide an improvement in *Fusarium* head blight (scab) resistance over currently grown varieties, but does generally have lower scab severity and DON accumulation than 'Robust'.

Results from micro-malting tests have shown Stellar-ND to have an excellent malt profile, including lower grain protein and greater kernel plumpness than all currently grown varieties. In one year of plant-scale evaluation, both Miller Brewing and Anheuser-Busch have rated Stellar-ND as satisfactory. Results from the second year of plant-scale evaluation will be available in fall 2005.

The excellent agronomic performance and malt quality of Stellar-ND provide this variety with great potential for becoming a widely grown malting variety in the upper Midwest and Northern Great Plains.

Stellar-ND General Characteristics

- Very high yield potential, similar to the highest yielding varieties currently grown
- Very strong straw – surpassed only by 'Drummond'
- Very good malting and brewing characteristics
- Wide area of adaptation across the upper Midwest and Northern Great Plains
- White aleurone, semi-smooth awns, and long rachilla hairs



For additional information about Stellar-ND and other barley varieties, refer to the most recent Barley Variety Selection Guide (www.ext.nodak.edu/extpubs/plantsci/smgrains/a1049w.htm) or contact the barley breeder or Extension agronomist at (701) 231-7971.

Agronomic performance of Stellar-ND and other malting barley varieties in NDSU six-rowed barley breeding program trials, 1999-2004

	Heading Date	Height (inches)	Lodging Score ¹	FHB Score ²	Stem Breakage ³	Yield (bu/acre)	Test Weight (lbs/bu)	DON (ppm)
Stellar-ND	26.2	31.3	2.4	4.1	2.5	88.3	50.0	2.3
Tradition	26.6	32.0	3.2	4.6	2.3	86.2	50.5	1.9
Drummond	26.3	32.5	2.3	3.9	2.2	85.0	50.0	3.9
Lacey	26.5	31.0	2.9	4.6	2.7	87.2	51.0	4.6
Legacy	28.5	32.3	3.6	4.7	3.2	87.6	50.0	4.7
Robust	26.9	33.5	4.0	4.8	3.3	81.5	51.0	4.8
(Loc. Years)	30	30	11	6	12	30	18	8

¹Scale of 0-9, with 0 being the best.

²Percent of kernels infected with *Fusarium* head blight.

³Amount of stems broken at harvest-ripe stage, scale of 1-5 with 1 being the best.