

Origin of select barley

varieties currently grown in North Dakota:

Celebration – BAR LLC, 2009

Rasmusson – U of M, 2008

Stellar-ND – NDSU, 2005

Tradition – BAR LLC, 2003

Legacy – BAR LLC, 2000

Lacey – U of M, 2000

Drummond – NDSU, 1999

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

For more information on the Celebration Barley Seed Increase Program contact:

NDSU Foundation Seedstocks Project
P.O. Box 6050, Fargo, ND 58108-6050
(701) 231-8140
www.ag.ndsu.nodak.edu/aginfo/seedstock/fss/

The production and distribution of Foundation Celebration barley seed is a cost-recovery service provided by the North Dakota Foundation Seedstocks Project for the benefit of North Dakota producers. Neither NDSU nor the ND Crop Improvement and Seed Association (NDCISA) make any guarantee as to the crop yield and quality of Celebration barley or any other crop variety.

Producers who purchase and grow Celebration barley are assuming the same risks associated with producing any other barley variety.

Plant Quality Certified Seed

Certified seed is a guarantee for variety identity, germination, and purity. Contact your local seed producer or dealer for quality certified seed.

Seed producers or dealers can be found in the North Dakota Field Inspected Seeds Directory. The directory is available from the North Dakota State Seed Department (NDSSD), North Dakota Crop Improvement & Seed Association, your local county agent, or under the field seeds program of the NDSSD website.

www.ndseed.com



All varieties listed in the brochure are protected under PVP Title V and must be sold as a class of certified seed.

Every seed lot sold must be accompanied by a seed analysis tag or certificate.



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Celebration Barley



Brought to you through the cooperation of Busch Agricultural Resources, Inc., the North Dakota State University Foundation Seedstocks Project, and the North Dakota Crop Improvement and Seed Association.



www.ndcropimprovement.org

Celebration Barley

The Celebration Barley Seed Increase Program:

Through a collaborative agreement between the North Dakota State University Foundation Seedstocks project (NDFSS), and Busch Agricultural Resources, Inc. (BAR LLC) all foundation seed of Celebration barley will be produced and distributed by the NDFSS.

Under the terms of this agreement the increase and distribution of Celebration barley seed will be handled in much the same way as publicly developed varieties with only minor differences.

Each year, Foundation seed will be produced at Research/Extension Centers across the state and provided to the North Dakota Crop Improvement and Seed Association (NDCISA) for increase by qualifying seed increase growers. Breeder seed will maintain by BAR LLC at Fort Collins, CO. Foundation seed will be maintained by NDSU Foundation Seedstocks and it will be made available to every county and in the case of seed shortage, the NDCISA allocation committee will determine the appropriate allocation of seed to the counties.

Celebration barley was developed by the barley breeding program at Busch Agricultural Resources, Inc. (BAR LLC) and was released in 2008. Celebration is a spring-type mid-season, six-rowed malting barley which has the pedigree of 6B94-7378/C96-2292. The female parent (6B94-7378) is a BAR LLC breeding line with a pedigree of 6B86-3131/Excel. The male parent (C96-2292) is from a cross between the released line B2027 and M84 from the University of Minnesota.

Celebration Barley General Characteristics

- Excellent agronomic performance and malt quality
- Midwestern variety, well adapted for Minnesota, North Dakota, Idaho and Montana
- Medium-early maturity, med-early heading, medium-short height
- Mid-lax head type, rough awns, short rachilla hairs, and colorless aleurone
- Moderately resistant to Septoria and Net Blotch
- It has improved reaction to Fusarium head blight and consistently lower DON content

Agronomic comparison of Celebration barley to other barley varieties across several locations in the U.S. and Canada (BAR LLC data, 2003-2008).

Variety	Yield (bu/ac)	Days to Heading (Julian)	Relative Maturity (1-9)	Plant Height (cm)	Lodging (1-9) ¹	Foliar Disease (1-9) ²	FHB (1-9) ²	DON (ppm)
Celebration	99.5	177.5	4.5	86.4	2.8	4.0	4.7	5.6
Legacy	97.0	178.1	5.4	90.0	3.0	4.0	4.3	7.7
Tradition	98.4	177.4	4.5	88.7	2.0	3.8	4.6	6.6

¹Lodging of 1 = no lodging and 9 = severe lodging.

²Diseases of 1 = resistant and 9 = susceptible.

Quality traits comparison of Celebration barley to other barley varieties currently grown in North Dakota across several locations (BAR LLC data, 2003-2008).

Variety	Barley Protein (%)	Malt Protein (%)	Plump Kernels (%)	Fine Extract (%)	Wort Protein (%)	S/T ¹ (%)	F-C Diff ² (%)	Beta-Glucan (ppm)	Diastatic Power (°L)	Alpha-Amylase (20° DU)
Celebration	13.1	12.8	89.1	79.9	5.9	46.4	0.9	95.5	198	75.3
Legacy	12.5	12.4	85.3	79.6	6.0	48.7	1.0	207.5	189	77.9
Tradition	12.8	12.7	89.9	79.6	5.4	43.4	1.1	163.9	201	67.4

¹The soluble protein divided by the total protein.

²The difference between fine and the coarse grind.

Yield means (bu/ac) of Celebration barley and other malting barley varieties by states (BAR LLC data).

Variety	U.S. All	ND	MN	SD	MT
Celebration	98.2	96.0	99.8	74.2	98.1
Legacy	94.3	89.7	98.7	71.7	95.3
Tradition	97.2	93.6	98.0	74.8	98.6

