

Other HRSW varieties

recently released by the North Dakota Agricultural Experiment Station:

Barlow – (2009). High yield potential. Very good protein with overall milling and baking quality. Very high water absorption and test weight. Excellent protection against leaf and stem rust.

Mott – (2009). It has resistance to the wheat stem sawfly. Adapted to the western region where sawfly is prevalent. Resistant to Stagonospora leaf blotch. Good milling and baking characteristics, with good protein content, higher loaf volume, and strong mix characteristics.

Faller – (2007). Very high yields. Good milling and baking characteristics. Moderately resistant to scab. Good protection against stem and leaf rust. Best adapted to eastern and central North Dakota.

Howard – (2006). Very high yield potential. Good leaf disease protection. FHB (scab) tolerance similar to Steele-ND. Best adapted to central and western regions of North Dakota.

Glenn – (2005). Scab resistance, yield, and straw strength superior to 'Alsen'. High protein and very good milling and baking characteristics. Extremely high test weight.

For information on the availability of Foundation seed, contact:

NDSU Research/Extension Centers

Agronomy Seed Farm, Casselton.....(701) 347-4743
Carrington Research Extension Center....(701) 652-2951
Hettinger Research Extension Center.....(701) 567-4323
Langdon Research Extension Center.....(701) 256-2582
North Central Research Ext. Center.....(701) 857-7679
Williston Research Extension Center.....(701) 774-4315

Or

NDSU Foundation Seedstocks Project

P.O. Box 6050, Fargo, ND 58108-6050
(701) 231-8140
www.ndfss.com

Plant Quality Certified Seed

Certified seed is field inspected and lab analyzed to help ensure 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



Varieties protected under PVP with Title V option can only be sold as a certified class of seed. **It is the responsibility of the buyer and/or seller to confirm the PVP status of a specific crop variety prior to buying or selling the variety.** PVP status information can be obtained from the ND State Seed Department.

NDSU[®]

AGRICULTURE

Prosper

Hard Red Spring Wheat



www.ndcropimprovement.org

Prosper

Hard Red Spring Wheat

Prosper was developed by the Hard Red Spring Wheat Breeding Program at North Dakota State University and joint released by the North Dakota Agricultural Experiment Station and Minnesota Agricultural Experiment Station in the spring of 2011.

Prosper has very high grain yield, better or at least equal to Faller. It performs relatively well in Eastern ND and Western MN environments. It has medium straw strength. Prosper is a conventional to semi-dwarf height variety, with an early to medium early maturity.

Prosper's average protein content and test weight are similar to Faller, and has high flour extraction. Overall, it has good milling and baking qualities similar to Faller.

Prosper possesses an excellent disease resistance package. It is moderate resistant/moderate susceptible to scab. It is resistant to leaf and stem rusts.

Prosper was developed by using several breeding methodologies including the modified pedigree method. Winter nurseries were used to speed up the process of Prosper development and seed production.

Foliar and head disease reaction of Prosper.

	Prosper	Barlow	Faller	Glenn
Leaf Rust Reaction ¹	R	R	R	R
Stem Rust	R	R	R	R
FHB Reaction ¹	MR/MS	MR/MR	MR/MR	MR/R

¹R=resistant; MR=moderately resistant; MS=moderately susceptible; S=susceptible.

Prosper

General Characteristics

- Adapted to Eastern North Dakota, and Western Minnesota
- Very high grain yield, similar to Faller
- Semi dwarf-conventional height; medium early maturity
- Average protein and test weight
- Good milling qualities and good baking properties
- Good leaf diseases package and medium resistant to scab

Agronomic performance of Prosper across the eastern region of N.D., 2006-2010.

	Prosper	Barlow	Faller	Glenn	Locs. ¹
Yield (bu/acre)	80.2	73.5	79.0	68.9	22
Days to Heading	59.6	56.3	59.0	55.7	22
Height (inches)	35.2	34.1	35.2	37.0	22
Lodging Score ²	2.3	1.7	2.5	1.3	7
Test wt. (lbs/bu)	59.9	60.9	58.9	62.2	22
Protein (%)	13.7	14.4	13.6	14.5	20

¹Number of locations reported.

²Scale of 0 to 9, with 0 being the best.



Agronomic performance of Prosper across North Dakota, 2006-2010.

	Prosper	Barlow	Faller	Glenn	Locs. ¹
Yield (bu/acre)	65.7	63.0	65.6	59.6	98
Days to Heading	61.6	58.4	61.3	57.9	98
Height (inches)	32.7	33.6	32.5	34.3	98
Lodging Score ²	1.6	1.5	1.6	1.3	98
Test wt. (lbs/bu)	59.2	60.8	58.9	62.3	98
Protein (%)	14.2	14.8	14.1	15.0	98

¹Number of locations reported.

²Scale of 0 to 9, with 0 being the best.

For additional information about Prosper or other hard red spring wheat varieties refer to the most recent Spring Wheat Variety Selection Guide (www.ag.ndsu.edu/crops/guides.html) or contact the HRSW breeder, Dr. Mohamed Mergoum, at (701) 231-8478 or extension agronomist, Dr. Joel Ransom, at (701) 231-7971.