Other HRSW varieties

recently released by the North Dakota Agricultural Experiment Station:

Velva – (2011). Adapted to most North Dakota environments, but performs very well in the Western and Central regions. High grain yield. Semi-dwarf height. Medium late maturity similar to Faller. Overall acceptable milling and baking quality. Good leaf disease resistance package. Medium susceptibility to scab.

Prosper – (2011). Very high grain yield, medium early maturity. Average protein and test weight. Good milling and baking properties. Good leaf disease package and medium resistant to scab.

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

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.

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
(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 you 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), your local county agent, or under the field seeds program of the NDSSD website.

www.ndseed.com

Varieties protected under PVPA 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

Elgin-ND

Hard Red Spring Wheat

North Dakota Crop Improvement & Seed Association
www.ndcropimprovement.org

Elgin-ND

Hard Red Spring Wheat

Elgin-ND was developed by the Hard Red Spring Wheat Breeding Program at North Dakota State University and released by the North Dakota Agricultural Experiment Station in the summer of 2012 with first distribution in 2013. Elgin-ND is widely adapted to the ND and spring wheat region with very high yield compared to the most grown cultivars, including Glenn, and Barlow.

Elgin-ND has medium to strong straw strength similar to Glenn and Faller with conventional height, similar to Parshall. It is medium early maturity similar to Velva. Elgin-ND has high grain protein, comparable to Glenn but superior to Faller and Barlow. Test weight of Elgin-ND is average, similar to Steele-ND. Overall, Elgin-ND has good milling (flour extraction similar to Glenn) and baking qualities similar to Barlow and Howard.

Elgin-ND possesses an excellent disease resistance package. It is moderate resistant/moderate susceptible to scab (similar to Barlow). It is resistant to leaf and stem rusts prevalent races and medium susceptible/resistant to the new emerging leaf rust race Lr21.

Elgin-ND was developed by using several breeding methodologies including the modified pedigree breeding method. Winter nurseries in Arizona and New Zealand were used to speed up the process of Elgin-ND development and seed production. Elgin-ND was observed for more than 12 crop cycles (F3-F15) generations from 2002 to 2011 and was stable and uniform within commercially acceptable limits for all traits.

Foliar and head disease reaction of Elgin-ND.

	Elgin-ND	Barlow	Faller	Glenn
Leaf Rust Reaction[1]	R*	R	R	R
Stem Rust[1]	R	R	R	R
FHB Reaction[1]	MR/MS	MR/MS	MR	MR/R

[1]R=resistant; MR=moderately resistant; MS=moderately susceptible; S=suscepible.
*MS/MR to leaf rust race Lr21

Elgin-ND

General Characteristics

- Wide adaptation to ND Spring wheat growing areas
- Very high grain yield potential
- Very high protein level with average test weight
- Good milling and baking characteristics
- Overall good leaf disease resistance package
- Medium resistance to scab

Agronomic performance of Elgin-ND across the western region of North Dakota, 2010-2012.

	Elgin-ND	Barlow	Faller	Glenn	Locs.[1]
Yield (bu/acre)	59.6	60.0	56.6	56.3	13
Days to Heading	66.2	64.1	67.1	63.8	13
Height (inches)	35.7	34.6	33.0	35.4	13
Lodging Score[2]	0.2	0.6	0.3	0.3	4
Test wt. (lbs/bu)	58.3	59.7	57.2	61.2	13
Protein (%)	15.4	15.4	14.7	15.7	13

[1]Number of locations reported.
[2]Scale of 0 to 9, with 0 being resistant and 9 susceptible.

Agronomic performance of Elgin-ND across the eastern region of North Dakota, 2010-2012.

	Elgin-ND	Barlow	Faller	Glenn	Locs.[1]
Yield (bu/acre)	59.4	55.5	62.0	50.9	9
Days to Heading	56.2	54.1	57.2	53.6	9
Height (inches)	33.9	32.7	32.4	33.6	9
Lodging Score[2]	1.8	1.5	0.8	0.0	9
Test wt. (lbs/bu)	58.9	60.3	59.4	62.0	9
Protein (%)	15.3	15.3	14.3	14.9	9

[1]Number of locations reported.
[2]Scale of 0 to 9, with 0 being resistant and 9 susceptible.

For more information about Elgin-ND 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.