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Grain Yield and Quality Comparisons:

Glenn has a medium yield potential combined with high test weight, high grain protein percentage, and excellent milling and baking quality. Of the current varieties, Glenn offers some the best resistance to FHB and as such is an excellent hedge against this disease. For additional yield comparisons, consult the *Minnesota Varietal Trials Results* bulletin.

Table 5: Grain yield of Glenn relative to comparable HRSW varieties (2004-2005 data).

Variety	Relative Maturity (days)	North (%)	South (%)	State (%)
Glenn	0	102	100	101
Alsen	+3	97	93	95
Freyr	+3	101	105	104
Hanna	+4	98	87	92

Table 6: Grain quality of Glenn relative to comparable HRSW varieties (2004 - 2005 data).

Variety	Test Weight (lbs/bu)	Grain Protein (%)	Baking Quality
Glenn	62.0	15.5	high
Alsen	60.1	15.1	high
Freyr	58.8	14.7	
Hanna	59.5	14.7	high

Minnesota Agricultural Experiment Station

UNIVERSITY OF MINNESOTA

Glenn

Hard Red Spring Wheat

February 2006

Glenn

'Glenn' is a hard red spring wheat developed and released by the North Dakota Agricultural Experiment Station (NDAES) in 2005. Glenn is selected from the cross ND2831/Steele-ND. ND2831 is an experimental line with Sumai 3, the Chinese source of resistance to Fusarium Head Blight, as a parent.

Before release, Glenn was tested as ND 747 in North Dakota's state wide yield trials in 2003 through 2004 and in the Uniform Regional Hard Red Spring Wheat Nursery in 2003 and 2004. Since 2005, Glenn been tested in the Minnesota State Yield Trials.

Glenn is named after Glenn Smith, the second of only four HRSW breeders in t NDSU history. Protection under the Title V provision of the US Plant Variety Protection Act is pending. Breeder seed of Glenn is maintained by NDAES. In Minnesota foundation seed is produced and maintained by the Minnesota Crop Improvement Association, 1900 Hendon Avenue, Saint Paul, MN 55108 (www.mncia.org).

Characteristics:

Glenn is an awned, medium tall semi-dwarf hard red spring wheat. The kernels are red, midlong and oval, and very uniform. Glenn has an early maturity. Plant height averages 34.0 inches and straw strength is good. Although Glenn has the scab-resistant Chinese wheat Sumai 3, known for shattering, in it's pedigree, the variety is resistant to shattering.

Planting:

Glenn is well adapted to northwest Minnesota, but can be grown throughout the state as a hedge against FHB.

Table 1: Seed characteristics of Glenn.

Coleoptile	No data
Seed Count	14,500 kernels/lbs

Table 2: Seeding rate information for Glenn.

	Early	Late
Optimum Stand (plants/ft^2)	30	32
Seeding Rate (lbs/acre)	108	117

Herbicides:

Glenn has no restriction for any other herbicides labeled on hard red spring wheat in Minnesota. Crop tolerance data to most common grass herbicides are presented in Table 3.

Table 3: Crop tolerance of Glenn to postemergence grass herbicides.

Herbicide	Poor	Fair	Good
Assert			x
Axial			x
Discover			x
Everest		x	x
Puma			x
Rimfire		x	x
Silverado		x	x

Fungicides and Seed Treatments:

Glenn has no restrictions for any of the fungicides or seed treatments labeled on hard red spring wheat in Minnesota. Glenn is a hedge against FHB. When planting Glenn in wheat stubble, scout for an early onset of tan spot and consider the use a fungicide to control these diseases. Disease responses of Glenn to common pathogens are listed in Table 4.

Table 4: Disease responses of Glenn to common pathogens.

Disease	S	MS	MR	R
Common Root Rot		No data		
Leaf Rust				x
Stem Rust				x
Stripe Rust				x
Tan spot/ Septoria complex		x	x	
FHB (disease severity)			x	
FHB (grain soundness)				x
Black Point		No data		