



**Minnesota  
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UNIVERSITY OF MINNESOTA

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#### Grain Yield and Quality Comparisons:

Freyr has a medium high yield potential combined with acceptable test weight and grain protein percentage. Of the current varieties, Freyr offers some the best resistance to FHB and as such is an excellent hedge against this disease. The variety is resistant to pre-harvest sprouting and the Hagberg falling number averages > 350 seconds. For additional yield comparisons, consult the *Minnesota Varietal Trials Results* bulletin.

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

Variety	Relative Maturity (days)	North (%)	South (%)	State (%)
Glenn	-3	102	100	101
Alsen	0	97	93	95
Freyr	0	101	105	104
Hanna	+1	98	87	92

**Table 6:** Grain quality of Freyr 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

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*Freyr*

*Hard Red Spring Wheat*

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# Freyr

'Freyr' is a hard red spring wheat developed and released by AgriPro in 2004. Freyr is selected from the cross Sonja/Vance//Sumai 3/Dalen.

Before release, Freyr was tested as N99-0107 in AgriPro's own yield trials in the Uniform Regional Hard Red Spring Wheat Nursery in 2002 and 2003. Since 2004, Freyr been tested in Minnesota's State Yield Trials.

In Norwegian mythology, Freyr is the god of sun and rain, and the patron of bountiful harvests. Freyr is protected under the Title V provision of the US Plant Variety Protection Act (PVP # 200400165). Breeder seed of Freyr is maintained by AgriPro, Berthoud Colorado. In Minnesota certified seed can be purchased from an AgriPro Associate ([www.agriprowheat.com](http://www.agriprowheat.com))

## Characteristics:

Freyr is an awned, medium tall semi-dwarf hard red spring wheat. The kernels are red, short and ovate. Freyr has a medium early maturity, similar to Alsen. Plant height averages 32.5 inches with medium straw strength. Although Freyr has the scab-resistant Chinese wheat Sumai 3, known for shattering, in it's pedigree, the variety is resistant to shattering.

## Planting:

Freyr is be grown throughout the state as a hedge against FHB.

**Table 1:** Seed characteristics of Freyr.

<b>Coleoptile</b>	2.2 inches
<b>Seed Count</b>	14,000 kernels/lbs

**Table 2:** Seeding rate information for Freyr.

	Early	Late
<b>Optimum Stand (plants/ft<sup>2</sup>)</b>	30	32
<b>Seeding Rate (lbs/acre)</b>	112	121

## Herbicides:

Freyr 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 Freyr to postemergence grass herbicides.

Herbicide	Poor	Fair	Good
<b>Assert</b>			x
<b>Axial</b>			x
<b>Discover</b>			x
<b>Everest</b>		x	x
<b>Puma</b>			x
<b>Rimfire</b>		x	x
<b>Silverado</b>		x	x

## Fungicides and Seed Treatments:

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

**Table 4:** Disease responses of Freyr to common pathogens.

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