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### Grain Yield and Quality Comparisons:

Norris's yield ranks slightly below the top yielding cultivars in the State Yield Trials. However, Norris ranks at the top of the State Yield Trials in test weight and grain protein content. The variety is resistant to pre-harvest sprouting and the Hagberg falling number averages > 400 seconds. The end-use quality of Norris is good. For additional yield comparisons, consult the *Minnesota Varietal Trials Results* bulletin.

**Table 5:** Grain yield of Norris relative to comparable HRSW varieties (2003-2005).

Variety	Relative Maturity (days)	North (%)	South (%)	State (%)
Oklee	-4	100	101	101
Granger	-3	100	107	104
Norris	0	103	103	103
Briggs	-3	101	102	102
Knudson	-1	106	110	109

**Table 6:** Grain quality of Norris relative to comparable HRSW varieties (2004-2005)

Variety	Test Weight (lb/bu)	Grain Protein (%)	Baking Quality
Oklee	60.4	15.0	low - medium
Granger	59.6	14.7	medium
Norris	60.6	14.7	medium - high
Briggs	60.1	14.8	medium
Knudson	59.5	14.3	medium - high



**Minnesota  
Agricultural  
Experiment  
Station**

UNIVERSITY OF MINNESOTA

*Norris*

*Hard Red Spring Wheat*

February 2006

# Norris

'Norris' is a hard red spring wheat developed and released by the Minnesota Agricultural Experiment Station (MAES) in 2006. Norris has the pedigree Butte/3/TZPP/Son64//Crim/4/2375 and originates from the former Pioneer Hi-Bred spring wheat breeding program.

Before release, Norris was tested as MN95229 and MN95229-A in yield trials since 1998 and was in the Uniform Regional Hard Red Spring Wheat Nursery in 1999 and 2000. Since 2002 Norris has been entered in the Minnesota State Yield Trials.

The variety is named after the James Norris, who is credited with growing the first notable crop of wheat in Minnesota in 1843. Protection under the Title V provision of the US Plant Variety Protection Act is pending. Breeder seed of Norris is maintained by the MAES. Foundation seed is produced and maintained by the Minnesota Crop Improvement Association, 1900 Hendon Avenue, St. Paul MN 55108 ([www.mncia.org](http://www.mncia.org)).

## Characteristics:

Norris is an awned hard red spring wheat with medium sized kernels that are red and with an ovate form. Norris has a medium maturity. Plant height averages 30 inches and straw strength is good, similar to slightly better than Knudson. Norris has high yield potential with a high test weight and high grain protein percentage.

## Planting:

Norris is well suited for the whole state of Minnesota.

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

<b>Coleoptile</b>	No data
<b>Seed Count</b>	12,800 seeds/lbs

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

	Early	Late
<b>Optimum Stand (plants/ft<sup>2</sup>)</b>	30	32
<b>Seeding Rate (lbs/acre)</b>	123	132

## Herbicides:

Norris has no restrictions for any of the common herbicides labeled for hard red spring wheat in Minnesota.

**Table 3:** Crop tolerance of Norris 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:

Norris has no restrictions for any of the fungicides or seed treatments labeled on hard red spring wheat in Minnesota. Norris is susceptible to powdery mildew. Avoid planting Ulen on last years wheat ground and/or use a fungicide to reduce the impact leaf diseases. Disease responses of Norris to other common pathogens are listed in Table 4.

**Table 4:** Disease responses of Norris 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	
<b>FHB (disease severity)</b>		x	x	
<b>FHB (grain soundness)</b>		x		
<b>Black Point</b>		No data		