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### Grain Yield and Quality Comparisons:

Ulen's yield ranks slightly below the top yielding cultivars in the State Yield Trials. However, Ulen ranks at the top of the State Yield Trials in test weight and grain protein content. Ulen ranks medium for its baking quality. The variety is moderately susceptible to pre-harvest sprouting. Producers are encouraged to harvest Ulen in a timely fashion to prevent sprouting damage and the associated decline in grain quality. For additional yield comparisons, consult the *Minnesota Varietal Trials Results* bulletin.

**Table 5:** Grain yield of Ulen relative to comparable HRSW varieties (2003–2005 data).

Variety	Relative Maturity (days)	North (%)	South (%)	State (%)
Oklee	0	100	101	101
Briggs	+1	101	102	102
Ulen	0	99	110	105
Granger	+1	100	107	104
Knudson	+3	106	110	109

**Table 6:** Grain quality of Ulen relative to comparable HRSW varieties (2004–2005 data)

Variety	Test Weight (lb/bu)	Grain Protein (%)	Baking Quality
Oklee	60.4	15.0	low - medium
Briggs	60.1	14.8	medium
Ulen	59.3	15.0	medium
Granger	59.6	14.7	
Knudson	59.5	14.3	medium - high



**Minnesota  
Agricultural  
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UNIVERSITY OF MINNESOTA

## *Ulen*

### *Hard Red Spring Wheat*

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# Ulen

'Ulen' is a hard red spring wheat developed and released by the Minnesota Agricultural Experiment Station (MAES) in 2005. Ulen originated from a single F<sub>4</sub> plant from the cross Grandin/Nordic//HJ98.

Before release, Ulen was tested as MN97803 or MN97803-A in Minnesota state-wide yield trials since 1997 and was in the Uniform Regional Hard Red Spring Wheat Nursery in 2000 and 2001. Since 2000 Ulen has been entered in the Minnesota State Yield Trials.

The variety is named after the small town of Ulen in northwest Minnesota. Protection under the Title V provision of the US Plant Variety Protection Act is pending. Breeder seed of Ulen 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:

Ulen is an awned hard red spring wheat with medium large kernels that are red and with an ovate form. The cheeks of the kernels are angular with a narrow, mid-deep crease. Ulen has a medium early maturity. Plant height averages 32 inches and straw strength is intermediate, weaker than Oklee but stronger than Walworth. Ulen has high yield potential with a high test weight and high grain protein percentage.

## Planting:

Ulen is well suited for the south and west central Minnesota and the southern half of the Red River Valley.

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

<b>Coleoptile</b>	2.0 inches
<b>Seed Count</b>	12,500 seeds/lbs

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

	Early	Late
<b>Optimum Stand (plants/ft<sup>2</sup>)</b>	30	32
<b>Seeding Rate (lbs/acre)</b>	125	135

## Herbicides:

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

**Table 3:** Crop tolerance of Ulen 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:

Ulen has no restrictions for any of the fungicides or seed treatments labeled on hard red spring wheat in Minnesota. Avoid planting Ulen into wheat or barley stubble to reduce the impact of the tan spot/Septoria complex and consider the use of a fungicide to control the above mentioned diseases. Disease responses of Ulen to common pathogens are listed in Table 4.

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

Disease	S	MS	MR	R
<b>Common Root Rot</b>		No data		
<b>Leaf Rust</b>			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		
<b>Black Point</b>		No data		