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Grain Yield and Quality Comparisons:

Oklee's yield ranks slightly below the top yielding cultivars in the State Yield Trials. However, Oklee ranks at the top of the State Yield Trials in test weight and grain protein content. Oklee ranks low to medium in its baking quality—such as mixing time and tolerance, both which are rated weaker than its parent 2375. The variety is suited for blending to achieve adequate dough handling characteristics or for the identity preserved market. For additional yield comparisons, consult the *Minnesota Varietal Trials Results* bulletin.

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

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

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

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

Oklee

Hard Red Spring Wheat

Oklee

'Oklee' is a hard red spring wheat cooperatively developed and released by the Minnesota Agricultural Experiment Station (MAES) and the USDA-ARS in 2003. Oklee was selected from a single F₄ plant from the cross 2375/SBF0670. The initial cross was made by the former Pioneer Hi-Bred spring wheat breeding program.

Before release, Oklee was tested as MN95002 in Minnesota state-wide yield trials from 1995 through 2002 and in 1998 and 1999 in the Uniform Regional Hard Red Spring Wheat Nursery. Since 2000 Oklee has been entered in the Minnesota State Yield Trials.

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

Characteristics:

Oklee is an awned, semi-dwarf hard red spring wheat. The medium sized kernels are red with an ovate form. The cheeks of the kernels are angular with a narrow, mid-deep crease. Oklee has an early maturity. Plant height averages 31 inches and straw strength is intermediate, similar to than Oxen. Oklee has high yield potential with a high test weight and high grain protein percentage.

Planting:

Oklee is best adapted to northwest Minnesota.

Table 1: Seed characteristics of Oklee.

Coleoptile	3.0
Seed Count	12,800 seeds/lbs

Table 2: Seeding rate information for Oklee.

	Early	Late
Optimum Stand (plants/ft²)	30	34
Seeding Rate (lbs/acre)	114	140

Herbicides:

Oklee has no restrictions for any other herbicides labeled on hard red spring wheat in Minnesota. Crop tolerance data is presented in Table 3.

Table 3: Crop tolerance of Oklee 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:

Oklee has no restrictions for any of the fungicides or seed treatments labeled on hard red spring wheat in Minnesota. Scout actively for leaf rust and consider the use of fungicide to control the leaf rust. Disease responses of Oklee to common pathogens are listed in Table 4.

Table 4: Disease responses of Oklee to common pathogens.

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