



**Minnesota  
Agricultural  
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UNIVERSITY OF MINNESOTA

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#### Grain Yield and Quality Comparisons:

Trooper has a medium high yield potential combined with acceptable test weight and grain protein. Trooper is resistant to preharvest sprouting and the Hagberg falling number averages 400 seconds. For additional yield comparisons, consult the *Minnesota Varietal Trials Results* bulletin.

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

Variety	Relative Maturity (days)	North (%)	South (%)	State (%)
Ulen	-1	97	115	108
Briggs	0	100	107	104
Trooper	0	98	95	96
Granger	0	103	111	108
Knudson	+2	106	111	109

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

Variety	Test Weight (lbs/bu)	Grain Protein (%)	Baking Quality
Ulen	59.3	15.0	medium
Briggs	60.1	14.8	medium
Trooper	59.9	14.1	
Granger	59.6	14.7	
Knudson	59.5	14.3	medium - high

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# *Trooper*

## *Hard Red Spring Wheat*

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*February 2006*

# Trooper

'Trooper' is a hard red spring wheat developed and released by WestBred in 2005. Trooper is selected from the cross Keystone/Ivan. Keystone's pedigree contains Lars, Sharp, and Sumai 3, the Chinese source of resistance to Fusarium Head Blight.

Before release, Trooper was tested as CA-901-735 in WestBred's own yield trials in 2001 through 2004 and in the Uniform Regional Hard Red Spring Wheat Nursery in 2003. Since 2004, Trooper been tested in the Minnesota State Yield Trials.

Protection under the Title V provision of the US Plant Variety Protection Act is pending. Breeder seed of Trooper is maintained by WestBred LLC, Bozeman, Montana. In Minnesota, certified seed can be purchased from a WestBred Associate ([www.westbred.com](http://www.westbred.com)).

## Characteristics:

Trooper is an awned, short semi-dwarf hard red spring wheat. Trooper has medium large, ovate kernels red. Trooper has an early maturity, similar to Briggs. Plant height averages 29.5 inches with very strong straw.

## Planting:

Trooper is well adapted to west central and northwest Minnesota. Trooper responds well to a high input production system and is therefore well suited for the heart of the Red River Valley.

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

<b>Coleoptile</b>	No data
<b>Seed Count</b>	13,500 kernels/lb

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

	<b>Early</b>	<b>Late</b>
<b>Optimum Stand (plants/ft<sup>2</sup>)*</b>	45	45
<b>Seeding Rate (lbs/acre)*</b>	144	144

\* This recommendation is made by WestBred LLC and is considerably higher than the standard University of Minnesota recommendation of 30 to 32 plants/ft<sup>2</sup>

## Herbicides:

Trooper has no restriction for any 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 Trooper to postemergence grass herbicides.

<b>Herbicide</b>	<b>Poor</b>	<b>Fair</b>	<b>Good</b>
<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:

Trooper has no restrictions for any of the fungicides or seed treatments labeled on hard red spring wheat in Minnesota. Trooper is susceptible to powdery mildew and stripe rust. Scout actively for the aforementioned diseases and use a fungicide to control these diseases. Disease responses of Trooper to common pathogens are listed in Table 4.

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

<b>Disease</b>	<b>S</b>	<b>MS</b>	<b>MR</b>	<b>R</b>
<b>Common Root Rot</b>		No data		
<b>Leaf Rust</b>			x	
<b>Stem Rust</b>				x
<b>Stripe Rust</b>	x	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		