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### Grain Yield and Quality Comparisons:

Linkert is one of the highest quality HRSW currently available. Linkert's grain yield is comparable to other high protein varieties, but offers greater straw strength and better disease resistances. Linkert is resistant to pre-harvest sprouting. Consult the *Minnesota Field Crop Trials* bulletin for additional yield comparisons,

**Table 5:** Grain yield of Linkert relative to comparable HRSW varieties (2012-2014).

Variety	Relative Maturity (days)	North (%)	South (%)	State (%)
Glenn	-2	92	91	92
WB-Mayville	-2	97	100	98
Linkert	0	96	96	96
Barlow	-1	97	97	97
Vantage	+5	97	95	96

**Table 6:** Grain quality of Linkert relative to comparable HRSW varieties (2013-2014).

Variety	Test Weight	Grain Protein	Baking Quality
Glenn	61.8	14.7	High
WB-Mayville	58.9	14.7	Medium-high
Linkert	60.4	15.0	High
Barlow	60.5	14.6	Medium-high
Vantage	61.9	15.1	Medium

# Minnesota Agricultural Experiment Station

UNIVERSITY OF MINNESOTA

***Linkert***  
*Hard Red Spring Wheat*

January 2015

# Linkert

'Linkert' is a hard red spring wheat developed and released by the Minnesota Agricultural Experiment Station (MAES) in 2013. Linkert was selected from a cross between two breeding lines; MN97695-4 and MN95229-40.

Before release, Linkert was tested as MN06028 in yield trials since 2006 and was in the Uniform Regional Hard Red Spring Wheat Nursery in 2009 and 2010. Linkert has been entered in the Minnesota Field Crop Trials since 2009.

The variety is named after Gary Linkert, a longtime technician on the wheat breeding project who retired in 2011. Protection under the Title V provision of the US Plant Variety Protection Act is pending. Breeder seed of Linkert is maintained by the MAES. Foundation seed is produced and maintained by the Minnesota Crop Improvement Association, 1900 Hendon Avenue, St. Paul MN 55108. For a list of certified seed producers contact MCIA at 1-800-510-6242 or at [www.mncia.org](http://www.mncia.org)

## Characteristics:

Linkert is an awned hard red spring wheat with large kernels that are red and with an ovate form. Linkert has a medium maturity. Plant height averages 30.0 inches with very stiff straw, similar to Vantage. Linkert has very high grain protein with medium high test weight .

## Planting:

Linkert tillers well and is well suited for the whole state of Minnesota.

Table 1: Seed characteristics of Linkert.

Coleoptile	N/A
Seed Count	12,000

Table 2: Seeding rate information for Linkert.

	Early	Late
Optimum Stand (plants/ft <sup>2</sup> )	30	33
Seeding Rate (lbs/acre)	130	140

## Herbicides:

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

Table 3: Crop tolerance of Linkert to post-emergence grass herbicides.

Herbicide	Poor	Fair	Good
Assert			x
Axial Star			x
Axial XL			x
Discover NG			x
Everest/Sierra		x	x
Foxfire			x
GoldSky		x	x
Huskie Complete		x	x
Raze		x	x
Rimfire Max		x	x
Wolverine			x

## Fungicides and Seed Treatments:

Linkert has no restrictions for any of the fungicides or seed treatments labeled on hard red spring wheat in Minnesota. Disease responses of Linkert to common pathogens are listed in Table 4.

Table 4: Disease ratings of Linkert to common pathogens with 1=best and 9=worst.

Disease	Rating
Common Root Rot	N/A
Leaf Rust	3
Stem Rust	1
Stripe Rust	N/A
Tan spot/ Septoria complex	4
Fusarium head blight	5
Black Point	N/A
Bacterial Leaf Streak	4