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## NEW VARIETIES FOR 2007

### INTRODUCTION

Following is a brief description of newly released varieties that will be available through Minnesota Crop Improvement Association (MCIA). MCIA has increased and will be distributing four new varieties: **RB07 (MN99436-6) spring wheat, Faller spring wheat, MN1410 and MN1011CN soybeans**. Where possible, seed allocations will be made through your local County Seed Distribution Committee.

### **RB07 (MN99436-6) Spring Wheat**

RB07 is an early, semi-dwarf hard red spring wheat developed by the University of Minnesota. A high yielding variety RB07 has consistently been above average across all Minnesota locations. The heading date of RB07 is similar to Oxen. It is medium height with moderately strong straw. It has above average protein and medium test weight. RB07 has shown good resistance to fusarium head blight, similar to the variety 2375. It has excellent leaf and stem disease resistance. RB07 is resistant to pre-harvest sprouting with good falling numbers and medium high baking qualities. Released by the Minnesota Agricultural Experiment Station (MAES), a variety development fee will be assessed on seed sold. The name RB07 was selected to recognize the efforts of Robert Busch, retired University of Minnesota wheat breeder.

### **Faller Spring Wheat**

Faller is a medium early, semi-dwarf hard red spring wheat developed by North Dakota State University. It is a high yielding line with medium test weight. In two years of North Dakota trials, Faller has out yielded Glenn and Steele-ND. Test weight of Faller was less than the same two varieties and lower in protein. Limited data from Minnesota trials is included. Faller is medium height with medium straw strength similar to Alsen. Faller has excellent leaf and stem disease resistance. Faller has shown good FHB resistance in North Dakota trials. Growers will be required to sign a license agreement with NDSU Research Foundation. In addition to an annual research fee a seed increase fee will be assessed on the first year of seed production.

### **MN1410 Soybean**

MN1410 soybean is a 1.4 maturity conventional variety. It has shown excellent yield performance. MN1410 carries the Rps1k gene for phytophthora resistance and has good iron chlorosis tolerance. It has average height and good lodging resistance. Developed through conventional breeding methods MN1410 is an excellent choice for producers seeking a non-gmo variety. It has above average protein content, average oil content, white flowers, grey pubescence and a buff hilum. Released by the MAES, a variety development fee will be assessed on seed sold. Seed may be available as Foundation, Registered or Certified. Contact Roger at MCIA for more information.

## MN1011CN Soybean

MN1011CN soybean is a 1.0 maturity conventional soybean line with cyst nematode resistance. It has excellent yield in cyst nematode locations and very good yield potential overall. It is similar in maturity and slightly taller than Surge. MN1011CN has good iron chlorosis tolerance and carries the Rps1 gene for phytophthora resistance. This variety has a yellow hilum and good protein content. It is an excellent choice for an early season, cyst nematode variety. There is a limited amount of Foundation seed available for distribution in 2007. Released by the MAES, a variety development fee will be assessed on seed sold.

**Table 1. 2004-2006 Grain yield (% of trial mean) Hard Red Spring Wheat Varieties in MN**

Variety	State			North			South		
	2006	2-Year	3-Year	2006	2-Year	3-Year	2006	2-Year	3-Year
Ada	97	100	101	93	99	101	101	102	101
<b>Faller (ND805)</b>	<b>108</b>	-	-	<b>106</b>	-	-	<b>110</b>	-	-
Glenn	91	98	98	100	103	102	84	94	95
Knudson	105	107	108	106	110	107	104	106	109
<b>RB07 (MN99436-6)</b>	<b>106</b>	<b>106</b>	<b>107</b>	<b>107</b>	<b>108</b>	<b>108</b>	<b>105</b>	<b>104</b>	<b>107</b>
Oklee	95	101	101	93	99	99	96	102	102
Steele-ND	106	109	107	108	103	101	104	112	111
Ulen	107	107	108	105	99	99	108	112	113
<b>Mean (Bu/Acre)</b>	76.4	64.1	67.5	75.5	74.1	76.9	77.1	59.8	62.4
<b>LSD (0.05)</b>	8.3	9.2	7	7.1	12.6	9.8	7.4	13	9.6
<b>No. Environments</b>	7	14	20	3	6	8	4	8	12

\* Mean – Includes varieties not listed in tables.

**Table 2. Agronomic Characteristics and Quality Characteristics**

Variety	Days to Heading <sup>1</sup>	Height cm <sup>1</sup>	Straw strength <sup>2</sup>	Test Weight (Lb/Bu)		Protein (%) <sup>3</sup>		Falling Number <sup>4</sup>
				2006	2 yr.	2006	2 yr.	
Ada	56	77	m. strong	62.0	61.0	14.3	14.6	7,0,0,0
<b>Faller (ND805)</b>	<b>58</b>	<b>80</b>	-	<b>60.5</b>	-	<b>13.7</b>	-	-
Glenn	54	87	strong	63.7	62.6	14.8	15.4	-
Knudson	56	76	m. strong	61.1	60.1	13.9	14.2	5,2,0,0
<b>RB07 (MN99436-6)</b>	<b>54</b>	<b>76</b>	<b>m. strong</b>	<b>60.8</b>	<b>59.7</b>	<b>14.7</b>	<b>14.9</b>	<b>6,1,0,0</b>
Oklee	54	75	medium	61.3	60.5	14.7	14.9	6,0,0,1
Steele-ND	55	84	medium	61.9	60.8	14.6	15.0	7,0,0,0
Ulen	54	82	medium	61.1	59.8	14.7	15.0	6,1,0,0
Mean*	55.7	78.8		61.3	60.0	14.3	14.3	

1. 2006 data.

2. 2004-2006 data.

3. 12% moisture basis.

4. Falling Number is the number of trials in which the variety had falling numbers greater than 400, 350-400, 300-350, and less than 250. Based on 7 environments in 2003 and 2004. A variety that had falling numbers of greater than 400 in all 7 environments (i.e. 7,0,0,0) is best.

\* Mean – Includes varieties not listed in tables.

**Table 3. Disease Reactions of Hard Red Spring Wheat Varieties**

Variety	Leaf Rust <sup>1</sup>	Stripe Rust <sup>1</sup>	Stem Rust <sup>1</sup>	Other Leaf Diseases <sup>2</sup>	Scab	
					Disease Severity <sup>1</sup>	Grain Soundness <sup>3</sup>
Ada	R-MR	R	R-MR	MR-R	MR-MS	3.0
<b>Faller (ND805)</b>	<b>R</b>	<b>-</b>	<b>R</b>	<b>-</b>	<b>-</b>	<b>-</b>
Glenn	R	R	R	MR	MR	1.5
Knudson	R	MR	MR	MR-R	MR-MS	2.5
<b>RB07 (MN99436-6)</b>	<b>R</b>	<b>R</b>	<b>R</b>	<b>MR</b>	<b>MR-MS</b>	<b>2.0</b>
Oklee	MR-MS	R	R	MR	MR-MS	2.5
Steele-ND	R	R	R	MR	MS	2.5
Ulen	MR	R	R	MR-MS	MS	3.5

1. R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible.
2. Includes tan spot, septoria, bacterial leaf blight, and powdery mildew.
3. Ability to maintain plump, sound kernels under scab epidemics. 1=good, 5=poor.

**MN1410 Soybean**

Performance and characteristics of public and private soybean varieties, central zone; Becker, Morris and Rosemount, 2006

Variety or Brand	Originator	Maturity Date	Maturity Rating	Percent of Mean			Phytophthora Gene	Chlorosis Score	Hilum Color
				2006	Protein	Oil			
MN1009	Minn. AES	9-18	1.0	93	99	101	Rps1k	3.1	Yellow
Kato	Minn. AES	9-20	1.3	88	108	95	Rps1	2.8	Black
MN1302	Minn. AES	9-21	1.3	104	100	98	Rps1k	3.5	Buff
<b>MN1410</b>	<b>Minn. AES</b>	<b>9-22</b>	<b>1.4</b>	<b>111</b>	<b>101</b>	<b>98</b>	<b>Rps1k</b>	<b>3.5</b>	Buff
Minori	Earthwise	9-22	1.4	99	100	98	Rps1k	3.8	Black
NT-176	NuTech	9-23	1.6	108	9t9	95	S	3.7	
Mean		9-19		45.8 bu/a	37.4%	16.6%			
LSD 20%				8%					

\* Mean – Includes varieties not listed in tables.

**MN1011CN Soybean** Minnesota Data: 2004-2006

Variety	Maturity Rating	Enviroments			Protein %	Oil %	Phyto	Chlorosis	Hilum Color
		Total (16)	Infested (11)	Non infested (5)					
<b>MN1011CN</b>	<b>1.0</b>	<b>41.4</b>	<b>34.9</b>	<b>55.8</b>	<b>35.8</b>	<b>17.9</b>	<b>Rps1</b>	<b>2.8</b>	<b>Yellow</b>
MN0902CN	0.9	42.0	34.7	58.0	37.0	17.6	S	3.0	Yellow
Lambert	0.8	39.2	29.7	60.2	36.3	18.9	Rps1	3.7	Yellow
Parker	1.5	39.8	30.6	54.7	36.0	18.2	Rps1	3.9	Buff
Surge	1.0	38.2	32.6	55.8	37.8	18.1	Rps1	3.2	Imp. Black

\* Mean – Includes varieties not listed in tables.

**MN1410 and MN1011CN soybeans are available for Certification or for brand labeling through a separate license agreement. For more information on either of these soybean varieties or licensing options contact Roger Wippler at the MCIA office (612-625-7766).**