New Varieties For 2015

Bolles(MN08165-8) Spring Wheat

Bolles tested as MN08165-8, is a high protein spring wheat, well suited for much of the spring wheat growing region. In addition to its superior protein it has very good yield potential and high baking quality. Bolles yields are comparable to SY-Soren and higher than WB-Mayville with 1% better protein. It has excellent pre-harvest sprouting resistance and good test weight. Maturity and straw strength are similar to Faller. Bolles possesses a good disease package with excellent leaf rust resistance and a moderate rating for scab and bacterial leaf streak similar to Prosper. Plant Variety Protection (PVP94) pending, a research fee applies to this variety. Released by the Minnesota Agricultural Experiment Station, the name Bolles was chosen in recognition of Lemuel Bolles who built the first flour mill in Minnesota near Afton in 1846. Table 1 includes Minnesota trial data.

Table 1. Yield and Agronomic Data Minnesota Trials

Comparison of MN08165-8 with popular varieties. Varieties are sorted based on 3-Yr. yield.

	Yield (bu/A)			TWT	Protein (%)		Straw	Baking	Diseases*			
Entry	**2014**	**2-Yr**	**3-Yr**	**2014**	**2014**	**3-Yr**	**Strength***	**Quality**	**PHS[1]**	**Lr[2]**	**BLS[3]**	**Scab[4]**
LCS Albany	88.8	88.5	85.0	60.4	13.0	13.2	5	Low–Med	5	2	6	4
Prosper	87.8	87.2	81.0	60.4	13.4	13.8	6	Med	2	5	4	5
Faller	87.7	86.1	79.7	60.2	13.3	13.8	5	Med	2	5	4	4
Forefront	82.7	80.7	77.1	60.9	14.6	14.7	5	Med	4	2	3	3
SY Soren	80.2	78.3	75.7	60.6	14.4	14.7	4	Med	1	3	4	4
MN08165-8	**79.7**	**78.8**	**75.5**	**60.0**	**15.7**	**15.7**	**5**	**High**	**1**	**1**	**4**	**4.5**
Norden	77.8	77.4	73.4	61.4	13.9	14.1	3	Med	1	2	4	5
WB-Mayville	75.3	75.3	73.2	58.9	14.7	14.8	3	Med–High	4	3	6	7
Linkert	75.6	75.2	71.7	60.3	14.9	15.2	2	High	2	3	4	5
Vantage	75.9	76.3	71.5	61.9	15.2	15.4	2	Med	3	6	7	5
Rollag	76.7	75.0	71.4	61.1	14.8	15.0	3	Low–Med	1	4	4	3
No. Env.	15	28	41									

*: 1-9 scale where 1=most resistant, 9=most susceptible.
1: PHS - Pre-harvest Sprouting
2: Lr - Leaf rust
3: BLS - Bacterial Leaf Streak
4: Scab - Fusarium Head blight

(OVER)

1900 Hendon Avenue, St. Paul, MN 55108 ~ tel 612-625-7766 ~ fax 612-625-3748
mncia@mncia.org ~ www.mncia.org

New Varieties For 2015

Oats – SDSU lines

South Dakota State University is releasing to two oat lines in 2015. A royalty/research fee of $.30/bushel applies to these lines and there is no saleable registered seed class. No allocations have been made, requests filled based on availability. Contact MCIA for additional information or to request seed.

Hayden (SD111972) is a mid to late maturing white-hulled oat with good yield potential and good test weight. Maturity of Hayden is similar to Souris. In one year of testing in Minnesota it has yielded well and is medium tall with average straw strength. It is resistant to smut, moderately resistant to BYDV, and is moderately susceptible to crown and stem rust. $14.00/bu fob Brookings, SD.

Natty (SD111779) is an early maturing white-hulled oat that is slightly later than Shelby 427. It has good yield potential and high test weight. Natty is medium tall, similar to Shelby 427 with average straw strength. It is expected to have good milling quality with a high groat percent but relatively low beta-glucan content. It is resistant to smut, moderately resistant to BYDV, and rated moderately susceptible to crown and stem rust. $14.00/bu fob Brookings, SD.

Soybeans- Minnesota Lines

The following soybean lines have been released by the Minnesota Agricultural Experiment Station a limited seed supply is available for increase or licensing. If you are interested in any of these lines or would like more information contact Roger Wippler at MCIA.

Exp M05-353151 is a conventional soybean cyst nematode (SCN) resistant soybean line with a 1.3 relative maturity. It is about five days later than Sheyenne and about one day earlier than MN1410. M05-353151 carries the *Rps1a* gene for phytophthora root rot resistance, has average tolerance to iron chlorosis, good lodging resistance and average protein and oil content. M05-353151 has purple flowers, gray pubescence and yellow hilum.

Exp M05-363126 is a conventional SCN resistant line with 1.6 relative maturity, about two days later than MN1410. The SCN resistance is derived from PI88788 and it has an excellent female reproductive index against HG type 0. M05-363126 carries the *Rps6* gene for phytophthora root rot resistance, has average tolerance to iron chlorosis, has good lodging resistance and is average for protein and oil content. M05-363126 has larger seed size with white flowers, tawny pubescence and yellow hilum.

Exp M05-357149 is a conventional SCN resistant soybean line with 1.8 relative maturity, about three days later than MN1410. M05-357149 carries the *Rps1k* gene for resistance to phytophthora root rot. It has very good yield, average tolerance to iron chlorosis, very good lodging resistance, and is average for protein and oil content. M05-357149 has white flowers, tawny pubescence and yellow hilum.

Soybean Yield Trial information is available, please contact MCIA.

If you would like more information on the conventional soybean or oat lines,
Contact the MCIA Foundation Seed Program, 1-800-510-6242.