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NEW VARIETIES FOR 2006 DISTRIBUTED BY MINNESOTA CROP IMPROVEMENT ASSOCIATION

INTRODUCTION

Following is a brief description of newly released varieties that will be available through the Minnesota Crop Improvement Association (MCIA). MCIA increased and will distribute **MN95229** spring wheat and **MN0101** soybeans. **Stallion**, a new oat release from South Dakota, will also be available upon request. We will notify members if other new varieties become available. Please contact MCIA (1-800-510-6242) if you have any questions.

MN95229 Spring Wheat

MN95229 is a semi dwarf, medium-late maturity hard red spring wheat developed by the University of Minnesota. The maturity of MN95229 compliments the earlier maturing varieties such as Oklee and Ulen. The heading date of MN95229 is similar to Knudson and one day earlier than Granite. In testing at Minnesota locations MN95229 has been above average in yield each of the past 3 years in both northern and southern locations. It is average height with moderately strong straw. In 2005, it was among the highest in test weight with above average protein levels. The scab rating for MN95229 is similar to Knudson. MN95229 is resistant to stem rust and moderately resistance to leaf rust and other leaf diseases. MN95229 is resistant to preharvest sprouting with good falling numbers and medium high baking qualities. Released by the Minnesota Agricultural Experiment Station, a variety development fee will be assessed on seed sold.

MN0101 Soybean

MN0101 soybean, tested as M98-101137 is a maturity group 0.1 conventional soybean line with excellent yield potential. The pedigree of MN0101 is M90-137050 x Traill. Maturing 1-2 days later than Traill, it is slightly taller and has equally good lodging resistance. MN0101 has very good iron chlorosis tolerance and carries the Rps1 gene for phytophthora resistance. The protein content of MN0101 is above average and MN0101 has a yellow hilum, which is desirable for use in the secondary food type soybean markets. There is a limited amount of Foundation seed available for distribution in 2006. Released by the Minnesota Agricultural Experiment Station, a variety development fee will be assessed on seed sold.

Stallion Oats

Stallion is a medium late maturity oat released by the South Dakota Agricultural Experiment Station. Tested as SD000366-36, Stallion when compared to Jerry in South Dakota trials had superior yield, test weight and crown rust resistance. In one year of testing in Minnesota, Stallion was similar in yield to Morton with slightly lower test weight. It has average lodging resistance. Stallion did show some resistance to crown rust in Minnesota trials. A limited supply of seed will be available from South Dakota. A royalty and license agreement is required for seed production.

2006 New Variety Information

Table 1 2003-2005 Grain yield (% of trial mean)

Variety	North Average				South Average				State Average			
	2003	2004	2005	3 yr	2003	2004	2005	3 yr	2003	2004	2005	3 yr
Alsen	95	99	94	96	91	92	95	93	92	95	95	94
Briggs	102	103	94	100	94	101	113	103	98	102	107	102
Granite	94	105	105	101	108	102	101	104	102	103	102	102
Knudson	105	101	113	106	109	115	107	110	108	109	109	109
MN95229	101	105	104	103	105	100	103	103	103	102	103	103
Oklee	96	101	104	100	92	102	109	101	94	101	108	101
Oxen	97	95	103	98	111	96	82	96	105	96	89	97
Reeder	99	98	84	94	106	102	82	97	103	100	83	95
Steele-ND	104	98	97	100	98	108	120	109	101	103	112	105
Ulen	101	100	92	98	100	114	115	110	100	108	108	106

Table 2 Wheat Agronomic and Quality Characteristics

Variety	Days to Heading ¹	Height (cm)	Straw Strength	Test Weight (Lb/Bu)		Protein %		Falling Numbers ²
				2005	2 yr.	2005	2 yr.	
Alsen	66.7	82	strong	59.7	60.1	15.4	15.1	7,0,0,0
Briggs	64.7	83	medium	59.5	60.1	14.9	14.8	5,1,1,0
Granite	69.0	78	v. strong	60.4	61.1	15.4	15.4	3,3,1,0
Knudson	67.1	79	m. strong	59.1	59.5	14.5	14.3	5,2,0,0
MN95229	67.7	77	m. strong	60.1	60.6	14.9	14.7	7,0,0,0
Oklee	63.8	80	medium	59.8	60.4	15.2	15.0	6,0,0,1
Oxen	66.1	79	m. strong	55.6	56.7	14.6	14.5	5,2,0,0
Reeder	66.1	79	strong	56.7	58.3	14.0	14.2	7,0,0,0
Steele-ND	66.1	81	medium	59.8	60.6	15.4	15.3	7,0,0,0
Ulen	64.2	81	medium	58.5	59.3	15.2	15.0	6,1,0,0
*Avg.	66.6	81		58.7	59.2	14.4	14.7	

*Averages include varieties not listed above

1. 2005 data. Days to heading is approximate because not all locations are included

2. 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.

Table 3 Disease Reactions of Hard Red Spring Wheat Varieties.

Variety	Leaf Rust ¹	Stripe Rust ¹	Leaf Diseases ¹	Disease Severity ¹	Grain Soundness ²
Alsen	MR	R	MR-MS	MR	2.0
Briggs	R	R	MR	MR-MS	3.0
Granite	MS	MR	MR	MR-MS	2.5
Knudson	R	MR	MR-R	MR-MS	2.5
MN95229	R-MR	R	MR-R	MR-MS	3.0
Oklee	MR-MS	R	MR	MR-MS	2.5
Oxen	MS-S	R	MS	MS-S	3.0
Reeder	MS-S	R	MR	MS	3.5
Steele-ND	R	R	MR	MS	2.5
Ulen	MR	R	MR-MS	MS	3.5

1. R = resistant, MR = moderately resistant, MS = moderately susceptible, S = susceptible.

2. Ability to maintain plump, sound kernels under scab epidemics. 1=good, 5=poor.

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2006 New Variety Information

Table 4 Oat Yield (bushels/acre) by Location, 2005

Variety	Rosemount	Waseca	Lamberton	Morris	Crookston	AVG
Kame	89	71	97	114	143	103
Stallion	97	71	109	109	124	102
Morton	90	68	107	101	134	100
Esker	62	64	90	97	137	90
Drumlin	56	47	82	100	127	83
Gem	52	53	79	94	111	78
Winona	60	44	84	91	95	75
Richard	56	48	78	95	87	73

Loc Avg. (Bu/A)*	67	58	91	102	117	87
LSD 0.05 (Bu/A)	10.0	12.1	12.9	17.6	19.2	6.7

*Averages include varieties not listed above

Table 5 Oat Traits and Disease Data 2005

Variety	Days To Heading	Height (in.)	Lodging ¹ Score	Test Wt Lbs /Bu	Groat %	Crown Rust ²	Smut Score ³	BYDV Score ⁴
Winona	60	34	4.0	39.2	69.0	>20/>20	0	6
Kame	62	34	1.9	37.7	69.4	5MS-MR/TMS-MR	0	7
Esker	63	35	2.9	38.0	66.7	>20/>20	0	5
Richard	64	38	3.5	36.6	67.2	>20/>20	0	6
Gem	65	36	2.7	36.6	66.3	>20/>20	10	4
Drumlin	66	35	2.5	37.7	65.4	>20/>20	0	4
Morton	67	42	1.6	40.8	68.4	8MS/TMS-S	0	6
Stallion	67	39	3.0	39.9	69.9	TMR-MS/TMR	30	6
AVG	65	37	2.6	39.0	68.5			

LSD 0.05 (Bu/A)

¹ 1=Erect, 5=Flat

² 2005 data from Rosemount replication 1 and 2

³ Artificially inoculated, R=resistant, MR=moderately resistant, MS=moderately susceptible and S=susceptible

⁴ 1=no symptoms and 9=dead

Table 6 Minnesota Soybean Trials 2003-2005

Variety	Maturity	Yield bu/ac	Chlorosis ¹	Phytophthora	Lodging 1-5	Height (in)	Seeds /lb	Protein %	Oil %	Hilum color
MN0101	0.1	32.8	2.2	Rps1	1.3	28	3150	36.0	16.7	Yellow
Traill	0.0	30.4	2.3	S	1.5	26	3050	35.8	16.9	Yellow
MN0071	00.7	30.0	2.2	Rps1	1.1	25	3000	34.1	18.4	Brown
Jim	00.7	30.5	2.3	S	1.2	23	3050	34.2	17.0	Yellow

¹ 1=no symptoms and 5=dead