

NEW VARIETIES FOR 2010

INTRODUCTION

There are four newly released varieties that will be distributed by MCIA: **Badger oats** from the University of Wisconsin, **Barlow** spring wheat from the North Dakota Agricultural Experiment Station; **Quest (M122) barley and MN1701CN soybean** from the Minnesota Agricultural Experiment Station. We have allocated seed of Badger, Barlow and Quest (M122) to the Minnesota Approved Seed Conditioners & Marketing Association (MASCMA). MN1701CN can be requested directly from MCIA. A variety development fee will be assessed on all these new varieties.

Badger (X8995-4) Oat

Badger (X8995-4) is an early maturing oat line released by Wisconsin. In Minnesota trials Badger was the highest yielding early variety over the past 3 years. The heading date for Badger is similar to Kame. It is similar in height to Kame but has much better straw strength. Badger is a yellow oat with very good test weight. It has a good crown rust rating and is resistant to smut, BYDV tolerance is similar to other early varieties.

Barlow Spring Wheat

Barlow, tested as ND809, is an early to medium early maturity hard red spring wheat with good scab tolerance (Table 1). Developed by North Dakota State University, the pedigree of Barlow is (Glenn'S/ND721) In testing Barlow has high grain yield (Table 2), better than Glenn and very competitive in the Red River Valley. It has good test weight and protein (Table 3) which are both higher than Faller. The heading date of Barlow is similar to Freyr and earlier than Faller. It is average in height with medium straw strength. Barlow possesses an excellent disease resistance package. Barlow has a scab resistance rating of (4 on 1-9 scale) similar to Faller and Freyr. It is resistant to leaf and stem rust, with moderate resistance to Septoria and race 3 of Tan Spot.

Quest (M122) Barley

Quest (M122) is a six-row malting barley with enhanced resistance to Fusarium head blight (Table 4). Developed by the University of Minnesota, Quest (M122) has about half the level of disease and DON compared to other varieties. Yields for Quest (M122) are equal to or better than the two most popular varieties, Tradition and Lacey (Table 5). The heading date is similar to Lacey and it is average height with medium straw strength. Protein levels and percent plump are favorable for malting. Other agronomic and disease traits are similar to commonly planted varieties. Malting and brewing evaluations were favorable in the first year of testing. The evaluation of 2009 crop will be completed later this year.

MN1701CN Soybean

MN1701CN tested as (M00-114140) is a maturity group 1.7 conventional SCN resistant soybean line (Table 7). The resistance to SCN in MN1701CN is derived from PI88788 and PI209332. MN1701CN has excellent yield in both SCN infested and non-infested soils. Tolerance to iron deficiency chlorosis is fair with average lodging resistance. MN1701CN has white flowers, tawny pubescence and yellow hilum with average protein and oil content. The yellow hilum, gives MN1701CN the possibility of being utilized in the soybean food use markets. Requests for seed should be made directly to the MCIA Foundation seed program.

Questions or Comments

Please contact MCIA, 1-800-510-6242, if you have any questions or comments.