

Small Grain and Flax Trial Information

HRSW and Durum

Yields were better than expected and quality was high across the region. Foliar diseases were low and very little or no fusarium head blight was observed. Variety trials are not sprayed with fungicides. Durum data from the Towner trial was too variable to report. New hrrsw varieties in this report include: Howard - NDSU, Ada- MN, Traverse – SDSU, Fireball and Bakker Gold – Northstar Genetics, Kelby – AgriPro, Rush – Westbred, and FBC-Dylan. New durum varieties; Strongfield – Canada.

Hard Red Winter Wheat

The winter wheat trial in 2006 was planted into flax stubble in order to trap snow for increased winter survival. The 2002 trials were planted on fallow but snow depth was generally 6 inches or greater from November to March which resulted in a high percent winter survival. There was no fusarium head blight present in the 2002, 2003 and 2006 trials and small levels in 2004. Fusarium head blight levels in 2005 were very high along with DON. Leaf and stem rust infections were light to moderate and 2003-2006. Newer varieties tested include: Alice – SDSU, Atrium and Dunai tested by Agriprogress.

Oats

Serious yield losses in some varieties occurred in oats in 2005 because of crown rust and/or lodging. There was low to moderate amounts in 2003-2004, and 2006. Morton, HiFi, Sesqui, AC Pinnacle, CDC Dancer, Leonard, Paul, Stark and Souris exhibited the best resistance to the prevalent races of crown rust. A shift in the predominant rust races resulted in some of the varieties that had exhibited resistance in past years to be susceptible to the more predominant rust race. New varieties included: Souris -NDSU.

Barley

Off-station barley variety trials were conducted in Walsh, Ramsey and Towner counties in 2006. Robust, Lacey, Drummond, Legacy, Tradition, Stellar-ND, AC Metcalfe and Conlon have been approved by

AMBA as recommended malting varieties. Lacey will only be utilized by Miller Brewing Co. Tradition and Legacy will only be utilized by Anheuser-Bush. Stellar-ND is approved by Miller Brewing Co. while Anheuser-Bush is continuing to test. Conlon is used by Miller in limited quantities.

Description of Traits Reported

Yield: bushels per acre, dockage free

Test Weight: pounds per bushel, dockage free

Height: in inches, excluding beards

Lodging: scale of 0-9, 0 equals plants standing erect, 9 equals plants lying horizontal. Years with no lodging reported indicate no lodging in the trial.

Days to Head: number of days from planting to heading

Days to flower: for flax, number of days from planting to 10% flower

Protein: grain protein percent, as is moisture basis. Percent moisture for protein is reported as the following: Hrrsw and Hrrww-12%, Barley and Oats-0%.

Plump: percent of sample remaining on a 6/64 screen

Special Thanks to our local cooperators for their efforts in our off-station variety testing.

Our 2006 cooperators were:

Larry Lindberg - Perth

Ray Sletteland - Devils Lake

Doug Stein - Pekin

Brad Brummond - Walsh County Agent

Dave Hankey - Park River Soybeans

Kent Schluchter - Cavalier

Terry Gregoire - Area Extension Agent