

Small Grain and Flax Trial Information

HRSW and Durum

Yields were generally above average with mostly good quality across the region. Foliar diseases were low and there was minimal fusarium head blight on more susceptible varieties not sprayed with fungicide. Variety trials are not sprayed with fungicides. New hrsw varieties in this report include: Barlow and Mott – NDSU, Brogan - Westbred, Brennan and Jenna – AgriPro, Sabin – MN, Brick - SDSU. New durum varieties: Westhope - Westbred.

Hard Red Winter Wheat

The winter wheat trial in 2009 was planted into flax stubble in order to trap snow for increased winter survival. There was no fusarium head blight present in the 2006 and 2009 trials and very low levels in 2007 and 2008. Fusarium head blight levels in 2005 were very high along with DON. Leaf and stem rust infections were light to moderate and 2005-2007. Newer varieties tested include: Boomer and Striker-Westbred, Mace – ARS/NE, Art – Agripro.

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 2005 - 2007. HiFi, Souris, Rockford and Leggett exhibit 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. Newer varieties included: Leggett - Canada.

Barley

Off-station barley variety trials were conducted in Pembina and Towner counties in 2009. Barley trials are rotated between Pembina and Walsh Counties. There are many six-row and a few two-row barley varieties that have been approved by AMBA as

recommended malting varieties. Contact you local elevator to determine which varieties are being contracted in your area. New varieties tested include: Celebration - BARI

Flax

New varieties tested include: Prairie Grande - Canada

Description of Traits Reported

Yield: bushels per acre

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. Percent moisture for protein is reported as the following: hrsw and hrww-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 2009 cooperators were:

Chad Hofstad – Cando
Crystal Martodam – Towner County Agent
John Steffan - Michigan
Brad Brummond - Walsh County Agent
Marty Fear - Walsh County Agent
Dave Hankey - Park River Soybeans
Kent Schluchter - Cavalier
Lesley Lubenow - Pembina County Agent
Lionel Olson – Area Extension Agent