

## 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 some 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: Albany, Hat Trick - Trigen, Blade, Breaker, Samson and Vantage - Westbred, Choteau - Montana sawfly resistant, Lolo - Idaho white wheat, Diamond - white wheat. New durum varieties: Wales - Westbred.

### Hard Red Winter Wheat

The winter wheat trial in 2008 was planted into canola stubble in order to trap snow for increased winter survival. There was no fusarium head blight present in the 2006 trials and small levels in 2004, 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 2004-2007. Newer varieties tested include: Lyman - SDSU, Overland - NE/SDSU, Accipiter and Peregrine - Canada.

### 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 2004 - 2007. HiFi, Souris and Stallion 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. New varieties included: Minstrel CDC - Canada.

### Barley

Off-station barley variety trials were conducted in Walsh, Ramsey and Towner counties in 2008. Barley trials are rotated between Pembina and Walsh Counties. The trial at Ramsey County was destroyed by birds before harvest. Robust, Lacey, Drummond, Legacy, Tradition, Stellar-ND, AC Metcalfe, Conrad and Conlon have been approved by AMBA as

recommended malting varieties. Contact you local elevator to determine which varieties are being contracted in your area.

### Flax

New varieties tested include: CDC Sorrel - 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 2008 cooperators were:

Larry Lindberg - Perth

Larry Weed - Devils Lake

John Steffan - Michigan

Brad Brummond - Walsh County Agent

Andy Johnson - Walsh County Agent

Dave Hankey - Park River Soybeans

Kent Schluchter - Cavalier

Lesley Lubenow - Pembina County Agent