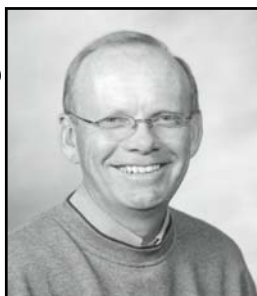


# AGRONOMY NEWS

 *Grasslands For Tomorrow*

Volume 6, Issue 4

June 2006



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## NDSU Preliminary Winter Wheat Variety Performance Data from Prosper and Lisbon, 2005

Dr. Joel Ransom, Dr. Marcia McMullen and Scott Meyer  
Randy Mairs, Ransom County cooperator

Varieties	Prosper		Ransom County (Lisbon)							
	Yield	Test Wt	Yield (Bu/A)		Test Wt (Lb/Bu)		Scab field severity (%)		Flag leaf disease (%)	
	Bu/A	lbs/Bu	No Fungicide	Fungicide	No Fungicide	Fungicide	No Fungicide	Fungicide	No Fungicide	Fungicide
Arapahoe	65.2	50.0	29.2	46.3	48.1	53.0	24.5	6.7	85	8
CDCButeo	55.0	51.0	37.0	54.1	48.0	52.4	29.3	8.5	62.4	10.8
CDCFalcon	61.4	48.4	27.4	37.1	44.4	49.0	67.9	26.7	83.3	7.3
Expedition	59.2	47.9	21.7	37.9	43.3	43.7	49.7	20.1	100	17.2
Harding	76.3	51.2	39.5	51.2	47.1	49.4	23.2	5.6	63.4	9.9
Jagalene	45.5	40.9	27.0	40.9	36.5	44.7	63.1	43.0	100	10.7
Jerry	78.0	54.9	35.5	52.0	52.0	53.3	16.8	3.1	83.8	15
McClintock	49.2	49.1	34.9	45.9	45.7	51.0	44.5	18.1	28.4	2.3
Millennium	71.7	50.7	37.9	54.8	49.3	51.7	34.5	17.2	65	10.2
NuSky	34.5	42.5	27.7	45.6	42.5	46.6	29.6	7.2	80.8	6
Ransom	66.6	52.5	35.6	46.1	48.1	50.6	19.6	4.6	100	13.9
Roughrider	52.0	53.9	27.0	37.3	50.2	52.4	15.8	3.8	84.4	8.8
Wahoo	55.7	42.5	24.5	35.5	39.5	41.7	29.2	12.9	100	15.5
Wendy	51.0	45.7	23.2	29.6	41.3	47.2	75.4	33.7	100	12.5
Wesley	44.4	43.1	28.1	39.8	43.5	43.0	69.8	46.0	100	12.6
Mean	57.7	48.3	30.4	43.6	45.3	48.6	39.5	17.1	82.4	10.7
LSD 0.05	12.0	4.1	9.7	9.7	5.2	5.2	9.5	5.7	11.1	NS

Early flowering varieties were past the primary stage (Feekes 10.51) for Folicur application and thereby may exhibit more scab severity and reduced yields compared to the later flowering varieties. These same early flowering varieties are many times the shorter or semi-dwarf varieties. However, these same varieties tend to be more susceptible to scab.

**NDSU Preliminary Spring Wheat Yield, Test Weight, FHB—Field Severity, Leaf Rust and Leaf Spot  
Lisbon, 2005**

Variety	Yield	Test Wt	Untreated Disease Evaluations %		
			FHB FS	Leaf rust	Leaf spot
Knudson	44.2	55.4	12.3	0.0	5.6
Glenn	43.0	59.8	6.9	0.0	9.0
Granite	41.6	58.0	7.0	4.0	7.1
Granger	41.3	57.6	13.1	3.4	7.6
Banton	41.2	57.1	21.1	1.0	24.2
Polaris	40.7	57.0	3.3	4.6	7.1
Briggs	39.7	55.9	22.8	1.1	10.2
Big Red	39.6	60.9	1.4	33.9	25.0
Trooper	39.1	55.1	17.1	0.0	8.5
Alsen	39.1	58.0	10.3	2.8	17.8
Oxen	39.1	53.3	16.7	9.2	38.9
HJ98	38.8	55.4	13.0	3.8	22.8
Oklee	38.1	56.8	14.7	5.1	16.8
Steele-ND	38.0	57.0	9.9	0.0	4.6
Lolo	37.4	55.1	19.6	3.9	36.7
Dapps	36.8	54.6	22.9	0.0	7.1
Reeder	36.4	54.1	27.6	26.7	26.1
Ulen	33.6	54.0	10.4	0.4	31.1
Express	30.8	51.0	39.1	0.1	17.0
AC Snowbird	26.5	54.2	21.2	2.7	25.6
Mean	37.8	55.8	15.5	5.1	17.4
LSD 0.05	4.7	1.2	4.1	2.3	6.3

The Hard Red Spring Wheat data above and winter wheat data on page 1 were compiled by Dr. Joel Ransom, Dr. Marcia McMullen and Scott Meyer, NDSU Extension Service. Randy Mairs, Lisbon, ND is the cooperater and BASF, Bayer CropScience and Ducks Unlimited are the plot sponsors.

Scab was very severe in the winter wheat trial and severe in the spring wheat trial. Headline fungicide was applied during herbicide application at approximately late tiller to early joint growth stage to the winter wheat and spring wheat. Folicur was applied at Feekes 10.51 growth stage (early flower) to the winter wheat and spring wheat. One-half of the six variety replications were treated with the fungicides.

Leaf and head disease levels were significantly reduced with the fungicide treatments.

**CONTINUED ON PAGE 4**

***Winter Cereal Sponsors***  
***Ducks Unlimited***  
  
***Bayer CropScience***  
  
***Syngenta Crop Protection***  
  
***South Dakota Game, Fish and Parks***  
***North Dakota Game & Fish Department***  
***Natural Resources Conservation Service***  
***Day, Marshall, James River, Ransom and Wild Rice Conservation Districts***  
  
***North Dakota Dept. of Health 319 Program***  
  
***NDSU and SDSU Cooperative Extension Service***

<u>DATES</u>	<u>TOURS</u>	<u>DATES</u>	<u>TOURS</u>
June 13, 2006	SDSU/DU Winter Wheat Fungicide Timing Study, a Nitrogen Timing Management Study and a Seed Inoculant Study. Horsch Anderson will also have a product showcase. The tour starts at 1:00 p.m. and is 2 miles east of Andover, SD on Highway 12. Sponsored by Horsch Anderson, BASF, Bayer Crop-Science, Syngenta Crop Protection, TJ Technologies and Philom Bios.	July 6, 2006	SDSU Northeast Farm Tour, South Shore site north of Watertown, SD. The tour starts at 4:00 p.m.
		July 10, 2006	NDSU/DU <b>Ransom/Sargent County</b> Research Plot Tour, 7.5 miles south of Lisbon, ND on Highway 32 at 7:30 a.m. breakfast tour. 701-683-5823, Ext. 128
June 20, 2006	DU/NDSU <b>Dickey County</b> Intensive Winter Wheat Management Study, 7 miles east of Ellendale, ND, on Highway 11. The tour starts at 6:00 p.m. followed by a dinner sponsored by Syngenta Crop Protection and the Dickey County Crop Improvement Association. The trial has 5 nitrogen timing treatments with a fungicide treated and untreated component. There are also several new varieties included from SDSU, Meridian Seeds and AgriPro. Radiant is considered wheat streak mosaic tolerant. 701-349-3249, Ext. 2	July 12, 2006	NDSU Hettinger Research Extension Center, Hettinger, ND. 701-567-4323
		July 13, 2006	<b>CCSP</b> (Conservation Cropping Systems Project) Tour, 5:00 p.m. tour followed by a complimentary meal, 1 mile south of Forman, ND at the junction of Highways 11 and 32. CCSP is a no-till crop rotation research and demonstration farm including no-till and strip-till comparisons. 701-724-3247, Ext. 3
June 20, 2006	Friends and Neighbors Day at the Northern Great Plains Research Lab and Area IV SCD Research Farm, Mandan, ND. The tours start at 4:00 p.m. with barbeque and entertainment following. 701-663-6445	July 13, 2006	NDSU Dickinson Research Extension Center Tour, Dickinson, ND. 701-483-2348
		July 14, 2006	NDSU Williston Research Extension Center Tour, Williston, ND. 701-774-4315
June 20, 2006	Eastern South Dakota Soil and Water Research Farm 12 <sup>th</sup> Annual Field Day, "Alternative Perspectives on Crop Management." The tour starts at 3:30 p.m. followed by a complimentary meal at 6:00 p.m. From Highway 14 and Medary Ave go 1 mile north. 605-693-5217	July 17, 2006	NDSU Casselton Agronomy Seed Farm Tour, Casselton, ND. 701-347-4743
		July 18, 2006	NDSU Carrington Research Extension Center Tour, Carrington, ND. 9:00 a.m. 701-652-2951
June 26, 2006	Brookings Agronomy Farm Tour, SDSU, Brookings, SD. The tour starts at 4:00 p.m.	July 19, 2006	NDSU North Central Research Extension Center Tour, Minot, ND. 9:00 a.m. 701-857-7677
June 29, 2006	Dakota Lakes Research Farm Tour, 1:00 p.m., 17 miles east of Pierre, SD, on Highway 34. 605-224-6114	July 20, 2006	NDSU Langdon Research Extension Center Tour, Langdon, ND. 701-256-2582

**Agronomy News Web Site Address Change**

The *Agronomy News* web site has a new address: <http://www.ducks.org/agronomy>

The Agronomy News web site allows you to view the back issues of the newsletter in the archives.

The newsletters in the archives contain most of the winter wheat research results that Ducks Unlimited has conducted or supported the past 5 years. Please feel free to pass the newsletter on to other farmers, industry or educational personnel.

<p><b><u>Agronomy News</u></b>  <b>Editors: Blake Vander Vorst</b>  <b>Janell Rath</b></p> <p><b>Phone: (701) 355-3533</b>  <b>E-mail: <a href="mailto:bvandervorst@ducks.org">bvandervorst@ducks.org</a></b></p>
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# AGRONOMY NEWS

 *Grasslands For Tomorrow*

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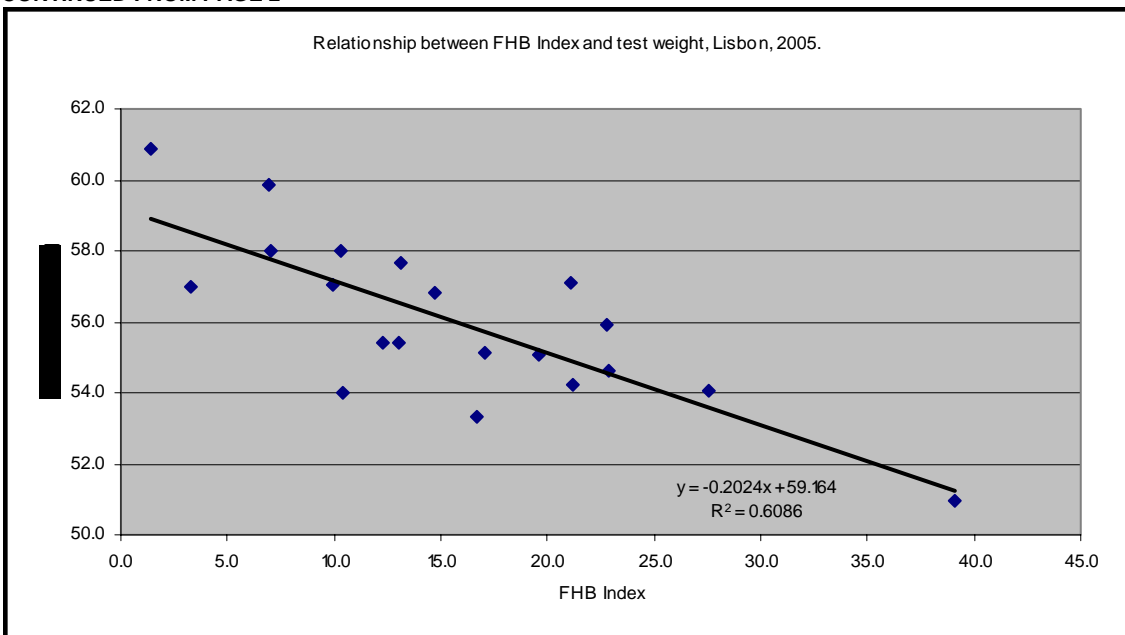
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RETURN SERVICE REQUESTED

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The graph above indicates that approximately 61% of the test weight variation was due to Fusarium head blight (FHB) or scab. The relationship between yield and scab accounted for approximately 30% of the yield differences.

Scab severely impacted small grain crops in southeast ND and northeast SD in 2005. That is one of the reasons crop rotations are recommended to spread risk. The crop failure in 2004 was corn, while wheat had a banner year. Experienced growers have learned that jumping in and out of crops on an annual basis causes one to miss the good years.

Many growers did not plant winter wheat the fall of 2005 and will be missing the better than average wheat prices, but there may still be opportunities to price the 06 and 07 crops at profitable levels.

### Reminder

All "Agronomy News" issues can be found at Ducks Unlimited [website](http://www.ducks.org/agronomy):

<http://www.ducks.org/agronomy>

Also, email Janell at [jrath@ducks.org](mailto:jrath@ducks.org) and let her know if you would like to receive it by [email](mailto:jrath@ducks.org). Agronomy News will arrive 7-10 days sooner if you choose to receive it by email.