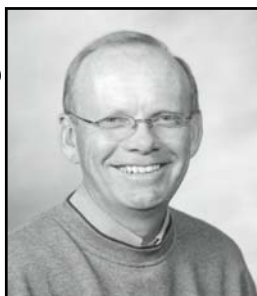


AGRONOMY NEWS

 **Grasslands for Tomorrow**

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BETTER PRICES ~ BETTER YIELDS

The 2006 winter wheat production year will be considered much more profitable compared to the scab laden year of 2005. Prices have increased considerably in addition to the increased production of quality grain.

Central South Dakota and south central North Dakota winter wheat yields were limited by drought and high temperatures, but for the most part, winter wheat yielded very well considering the weather. Yields were in the 30 to 90 bushel-per-acre range in the harvestable areas of the two Dakotas. Hard red spring wheat yields in the same areas ranged from 10 to 65 bushels per acre. Early maturing crops fared much better in the 2006 environmental conditions.

Kevin Anderson from Andover, SD, emailed saying his winter wheat **netted \$192 per acre** after variable costs verses \$138 for spring wheat. Another grower in Kidder County, North Dakota where the drought conditions were more severe, indicated that his winter wheat yielded 35 to 40 bushels per acre and the spring wheat 10 to 15 bushels per acre. The spring wheat was planted on sunflower ground and the winter wheat on prior crop spring wheat, implying early maturity and crop rotation were factors influencing time of moisture use and yield.

Prices have dropped since the contract highs in July but are still at competitive levels, and there is some optimism that wheat markets may test those highs.

Winter Wheat Variety x Fungicide Trial Results North Central Research Extension Center, Minot, ND. 2006

Kent McKay, Area Extension Specialist/Cropping Systems

Lee Novak, Research Specialist

Joel Ransom, Extension Agronomist, Cereal Crops, NDSU, Fargo, ND

EIGHT WINTER WHEAT VARIETIES WERE SEEDED INTO DURUM STUBBLE ON SEPTEMBER 19, 2005.

Variety	Yield		Test Weight		Leaf Spot on Flag	
	Untreated	Folicur*	Untreated	Folicur*	Untreated	Folicur*
	bu/A		lb/bu		%	
Ransom	46.7	51.3	60.4	60.3	4.8	1.4
Jerry	53.7	57.1	60.8	60.9	6.3	1.3
CDC Falcon	49.1	50.0	61.2	61.5	4.9	2.1
CDC Buteo	55.2	55.4	62.4	62.3	5.6	1.9
Jagalene	53.5	52.7	62.9	63.1	6.0	1.8
Radiant	53.3	53.4	60.7	61.4	6.3	1.2
Millennium	44.4	46.9	61.2	61.7	3.9	1.4
Yellowstone	60.0	59.1	61.8	61.7	3.2	1.3
LSD 5%	8.2	8.2	0.5	0.5	3.2	3.2
CV	10.9	10.9	0.6	0.6	67.9	67.9

* Folicur at 4 fl oz/A plus Induce NIS at 0.25% v/v applied at Feekes 10.51

2006 WINTER WHEAT VARIETY TRIAL ~ LISBON AND PROSPER, ND

Dr. Joel Ransom, Dr. Marcia McMullen and Scott Meyer, NDSU, conducted two winter wheat variety trials, one south of Lisbon, ND on the Randy and Susan Mairs farm and one at the NDSU Prosper, ND location. Twenty winter wheat varieties were planted into spring wheat stubble with six replications. Three replications received a Folicur (Bayer CropScience) fungicide application at the early flower (Feekes 10.51) stage of plant growth. The remaining three replications did not receive any fungicide treatment.

Table 1 has the varieties listed in order of the highest to the lowest average yield when averaged over fungicide treated and untreated and both locations. Table 2, again, lists the varieties from the highest to the lowest yield as averaged over locations, but separates the fungicide treated and untreated yields.

It is interesting to note the average fungicide response at the two locations. The Lisbon site had a 15.7 bushel response to the fungicide application at the Feekes 10.51 stage of growth and the Prosper site had a 6.6 bushel response. It is also interesting to note in Table 2 how the variety rankings change from the fungicide treated and untreated plots.

Generally, a foliar fungicide (Headline from BASF) would have been applied at Feekes 5 or 6, but that was not accomplished this year. It would have been interesting to see if the combined treatments would have enhanced yields. The combined foliar and early flower treatments have been the most recommended when winter wheat yield potential exceeds 50 bushels per acre. NDSU and Ducks Unlimited want to express their sincere appreciation to **Bayer CropScience** (Jeremy Frieze and Kevin Thorsness) and **BASF** (Jeremy Frie and Vince Ulstad) for their continued partnership in this trial.

Table 1. Yield and test weight of selected winter wheat varieties, Ransom and Prosper, 2006.

Variety	Yield (bu/acre)				Test Wt (lbs/bu)				Yield Ave locs/fung
	Lisbon		Prosper		Lisbon		Prosper		
	No Fung	Fung	No Fung	Fung	No Fung	Fung	No Fung	Fung	
Expedition	82.2	104.4	116.6	115.0	59.8	61.4	58.3	59.2	104.6
Yellowstone	74.1	109.5	111.9	121.1	55.7	57.1	56.2	57.4	104.2
Wesley	89.8	106.6	112.0	107.2	59.2	59.5	56.7	57.5	103.9
Goodstreak	82.4	94.3	110.1	126.8	56.0	57.1	55.1	55.7	103.4
CDC Buteo	89.0	102.3	112.4	108.3	60.3	60.4	59.4	59.8	103.0
Millennium	85.8	96.6	112.6	113.9	59.4	59.2	58.0	58.7	102.2
SD 01W064 ¹	77.2	107.1	107.1	117.0	59.8	61.4	57.8	59.0	102.1
Jagalene	75.4	103.9	102.4	126.0	59.2	59.3	55.4	59.3	101.9
SD 97059-2	81.8	95.0	113.3	115.7	58.5	58.8	55.7	57.1	101.4
Radiant	85.5	105.6	94.7	114.2	56.4	58.9	56.3	57.3	100.0
Paul	86.4	108.2	89.3	110.9	55.4	58.2	55.6	58.0	98.7
Harding	84.1	94.8	113.1	101.1	58.5	58.8	58.3	58.9	98.3
MT 00148	80.7	92.7	98.7	118.9	56.4	57.6	56.0	58.0	97.8
McClintock	81.7	93.5	97.1	115.2	59.8	59.0	58.0	59.4	96.9
Jerry	85.2	87.6	105.9	102.9	58.9	58.1	57.1	57.3	95.4
Wendy* ¹	70.5	89.0	112.4	109.4	60.0	60.1	57.2	58.6	95.3
Ransom	79.4	94.1	100.9	103.1	57.9	59.2	57.4	58.0	94.4
Alice* ¹	68.5	73.4	110.3	119.6	59.8	59.3	57.0	58.5	92.9
CDC Falcon*	76.2	78.5	101.2	109.1	56.4	58.3	56.2	57.3	91.3
Roughrider	72.2	84.0	87.8	87.0	58.9	60.5	59.2	58.9	82.8
Average	80.4	96.1	105.5	112.1	58.3	59.1	57.0	58.2	

Table 2. Winter wheat varieties ranked in order of yield with and without fungicide treatment in 2006.

Variety	No Fungicide			Variety	Fungicide		
	Lisbon	Prosper	Average		Lisbon	Prosper	Average
Wesley	89.8	112.0	100.9	Yellowstone	109.5	121.1	115.3
CDC Buteo	89.0	112.4	100.7	Jagalene	103.9	126.0	114.9
Expedition	82.2	116.6	99.4	SD 01W064 ¹	107.1	117.0	112.0
Millennium	85.8	112.6	99.2	Goodstreak	94.3	126.8	110.5
Harding	84.1	113.1	98.6	Radiant	105.6	114.2	109.9
SD 97059-2	81.8	113.3	97.5	Expedition	104.4	115.0	109.7
Goodstreak	82.4	110.1	96.2	Paul	108.2	110.9	109.5
Jerry	85.2	105.9	95.5	Wesley	106.6	107.2	106.9
Yellowstone	74.1	111.9	93.0	MT 00148	92.7	118.9	105.8
SD 01W064 ¹	77.2	107.1	92.1	SD 97059-2	95.0	115.7	105.3
Wendy* ¹	70.5	112.4	91.4	CDC Buteo	102.3	108.3	105.3
Ransom	79.4	100.9	90.1	Millennium	96.6	113.9	105.3
Radiant	85.5	94.7	90.1	McClintock	93.5	115.2	104.4
MT 00148	80.7	98.7	89.7	Wendy* ¹	89.0	109.4	99.2
McClintock	81.7	97.1	89.4	Ransom	94.1	103.1	98.6
Alice* ¹	68.5	110.3	89.4	Harding	94.8	101.1	98.0
Jagalene	75.4	102.4	88.9	Alice* ¹	73.4	119.6	96.5
CDC Falcon*	76.2	101.2	88.7	Jerry	87.6	102.9	95.2
Paul	86.4	89.3	87.8	CDC Falcon*	78.5	109.1	93.8
Roughrider	72.2	87.8	80.0	Roughrider	84.0	87.0	85.5

*These varieties had rodent damage at the Lisbon site and yields were reduced significantly

¹Hard white winter wheat variety

<p><u>WINTER WHEAT SEED INCENTIVE GROWERS</u></p> <p>The South Dakota Crop Improvement Association and North Dakota State Seed Department have their lists of 2006 winter wheat seed increase growers at the following websites:</p> <p>South Dakota: http://plantsci.sdstate.edu/seedcert/growerdir.htm</p> <p>North Dakota: http://www.nd.gov/seed/reports/cwheat.asp</p> <p>UAP Northern Plains has the rights to the variety CDC Falcon and CDC Buteo, and you can obtain seed by calling Ron Gienger at Valley City, ND at 1-800-728-6958 or 701-845-5523 or Warrington Seeds at Bristol, SD at 605-492-3500. The variety Jagalene can be obtained from AgriPro dealers or by calling David Boehm at 701-298-0511. Radiant can be purchased through Meridian Seeds by calling Ryan Sunram at 1-866-282-7333 or 701-371-5171.</p> <p>The DU website http://www.ducks.org/agronomy also has the South Dakota and North Dakota seed growers list for 2004, 2005 and 2006.</p>	<p><u>Winter Cereal Sponsors</u></p> <p><i>Ducks Unlimited</i></p> <p><i>Bayer CropScience</i></p> <p><i>Syngenta Crop Protection</i></p> <p><i>South Dakota Game, Fish and Parks</i></p> <p><i>North Dakota Game & Fish Department</i></p> <p><i>Natural Resources Conservation Service</i></p> <p><i>Day, Marshall, James River, Ransom and Wild Rice Conservation Districts</i></p> <p><i>North Dakota Dept. of Health 319 Program</i></p> <p><i>NDSU and SDSU Cooperative Extension Service</i></p>
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Table 3. 2006 South Dakota CPT Grain Yield (bu/ac) - Preliminary Grain Yield (bu/a)

No.	Variety	Brookings		Water town		Platte		Highmore		Eastern Region		D. Lakes		Winner		Central region		Martin		Oelrichs		Bison		Sturgis		Wall		Western region		State			
		06'	3-yr	06'	3-yr	06'	3-yr	06'	3-yr	06'	3-yr	06'	3-yr	06'	3-yr	06'	3-yr	06'	3-yr	06'	3-yr	06'	3-yr	06'	3-yr	06'	3-yr	06'	3-yr	06'	3-yr	06'	3-yr
24	Darrell	84	68	48	46	53	42	66	66	57	32	50	37	49	39	36	52	55	19	39	32	43	49	41	50	47	52	50	46	48	47		
9	Hatcher	78		50	49	55	46			57	24	38	35			32	55	62	12	38	41			42	50	46							
1	NuDakota	89		52	49	72	49			65	27	37	25			30	50	58	16	31	47			40	50	48							
17	SD01058	79		46	50	61	50			59	27	40	37			35	51	55	14	35	44			40	50	47							
25	SD98W175-1	77		67	44	59	44			62	33	45	39			39	47	55	13	33	43			38	49	49							
8	Harry	77		36	48	48	45			51	37	39	36			37	44	60	19	36	46			41	49	45							
2	Alliance	81	65	51	43	48	48	67	56	56	23	47	41	47	39	34	42	54	17	33	30	46	48	38	49	44	51						
6	Expedition	85	70	51	56	49	40	59	58	58	27	45	37	40	36	33	44	56	17	33	28	46	45	39	48	46	49						
28	Wahoo	78	74	44	49	51	44	69	54	54	27	48	35	46	33	32	45	61	16	36	30	48	53	41	48	45	52						
27	Trego	72	58	47	48	46	51	62	54	54	27	47	38	50	38	34	53	54	17	36	32	40	42	40	48	45	49						
30	Wesley	81	71	53	49	49	52	64	59	59	30	47	34	39	31	32	48	52	17	34	29	42	44	38	48	45	49						
23	Alice	72	63	47	62	51	46	63	57	57	29	47	39	47	34	34	47	52	17	37	27	45	45	40	48	46	50						
29	Wendy	80	68	49	49	41	34	60	53	53	32	51	38	47	39	37	48	49	19	33	27	46	46	39	48	45	49						
13	Overland	85		52	53	53	32		56	56	31	38	35			35	44	52	13	28		46		37	47	45							
15	NuFrontier	66		40	54	54	50		52	52	25	38	35			33	46	57	11	35	44			39	47	43							
3	SD96240-3-1	86		57	48	48	46		59	59	22	38	38			33	41	45	20	28		44		36	47	44							
21	SD02480	77		43	58	41			55	55	22	39	41			34	42	52	18	26		44		36	46	43							
4	Arapahoe	82	69	50	46	46	45	67	55	55	28	46	35	44	33	32	45	52	17	30	26	42	42	37	46	43	49						
12	Millennium	79	78	44	57	55	42	66	56	56	33	49	31	46	37	34	43	56	19	32	32	41	48	38	46	45	53						
10	Jagalene	65	59	42	51	49	44	63	50	50	24	52	41	52	36	34	42	57	16	38	31	42	47	39	46	43	51						
20	SD02279	73		43	55	55	54		56	56	27	36	31			31	42	51	13	31		47		37	46	43							
19	SD01w064	74		51	51	37			53	53	35	39	36			36	46	50	18	30		44		38	46	44							
7	Harding	71	69	45	46	52	49	67	53	53	24	44	37	48	37	33	40	52	18	33	28	42	48	37	45	42	50						
14	Nekota	76	63	43	50	49	54	63	56	56	25	45	37	43	34	32	42	50	21	33	29	36	42	36	45	43	46						
26	Tandem	65	62	48	47	50	45	63	51	51	25	44	36	44	36	32	44	51	16	35	29	45	46	38	45	42	49						
11	Jerry	78	79	44	44	49	42	66	52	52	22	44	29	39	31	27	43	53	20	30	26	39	49	37	45	41	50						
22	SD97059-2	82	76	50	42	47	41	70	54	54	25	50	31	48	28	28	45	47	12	30	27	45	50	36	45	42	52						
16	Overley	81		68	69	26			61	61	25	30				27	41	54	17	29		46		37	44	46							
5	Crimson	73	62	42	54	51	46	62	54	54	23	46	37	41	33	31	42	51	14	33	27	34	43	35	44	41	47						
18	SD01122	63		36	56	52			51	51	33	28	33			31	45	52	18	29		43		37	44	42							
	Mean	77	68	48	53	49	45	65			27	47	37	45	35		45	54	16	33	29	43	46		47	44	50						
	CV	8.6	12.6	23.5	23.4	18.2	13.2	7.7			35.7	17.8	9.0	10.7	12.2		12.5	8.2	20.0	12.6	15.5	11.2	12.1		10.7	16.7	14.9						
	LSD.05	9.3	6.9	15.8	17.4	7.3	12.0	4.3			13.8	6.8	5.4	4.1	5.0		8.0	6.2	6.7	6.8	3.8	6.8	4.5		2.6	3.1	1.8						

Variety	Williston		Hettinger		Minot		Mandan		Average	
	2006	3 Yr. Avg.	2006	3 Yr. Avg.	2006	3 Yr. Avg.	2006	3 Yr. Avg.	2006	3 Yr. Avg.
	-----Bu/A-----									
Alice	18.9	--	14.7	--	51.8	--	43.5	--	32.2	--
CDC Buteo	31.7	--	36.9	--	78.7	--	38.3	--	46.4	--
CDC Falcon	28.3	51.1	8.7	39.0	69.3	68.3	37.4	34.1	35.9	48.1
Expedition	28.6	47.8	19.4	39.4	55.1	60.7	36.9	38.1	35.0	46.5
Goodstreak	24.3	--	17.8	--	70.0	--	34.5	--	36.6	--
Harding	27.9	50.3	27.0	52.9	70.0	73.4	36.5	47.3	40.3	56.0
Jagalene	30.0	49.2	20.9	41.5	68.3	64.2	42.0	--	40.3	--
Jerry	31.6	53.3	24.8	53.4	79.1	77.0	39.1	46.5	43.7	57.6
McClintock	31.4	52.1	8.9	42.0	72.0	68.3	35.7	--	37.0	--
Millennium	33.3	51.3	8.7	43.7	68.4	73.4	36.9	44.0	36.8	53.1
Paul	29.5	50.8	22.4	--	76.6	--	41.5	--	42.5	--
Radiant	27.6	--	41.7	--	70.7	--	36.5	--	44.1	--
Ransom	27.7	50.3	30.4	47.2	66.7	67.9	30.9	38.1	38.9	50.9
Roughrider	31.2	47.3	28.3	46.4	65.3	65.1	37.2	39.2	40.5	49.5
Wendy	32.1	52.8	18.9	--	51.4	58.9	39.5	--	35.5	--
Wesley	30.4	48.3	19.1	44.0	55.0	58.7	41.1	34.5	36.4	46.4
Yellowstone	35.4	--	20.4	48.5	94.2	--	34.5	--	46.1	--
Mean	29.4	50.5	21.7	45.3	68.4	66.9	37.7	40.2	36.7	51.0

Variety	Carrington		Langdon		Prosper*		Lisbon		Average	
	2006	3Yr.Avg.	2006	3Yr.Avg.	2006	3Yr. Avg.	2006	3Yr. Avg.	2006	3Yr.Avg.
	-----Bu/A-----									
Alice	48.6	--	75.5	--	110.3	--	68.5 ¹	--	75.7	--
CDC Buteo	46.5	--	76.2	--	112.4	--	89.0	--	81.0	--
CDC Falcon	47.2	66.8	75.3	61.1	101.2	97.3	76.2 ¹	77.7 ¹	75.0	75.7
Expedition	48.0	64.7	81.4	70.7	116.6	87.6	82.2	66.3	82.1	72.3
Goodstreak	44.1	67.7	65.4	--	110.1	--	82.4	--	75.5	--
Harding	47.5	69.0	64.1	61.2	113.1	100.9	84.1	78.9	77.2	77.5
Jagalene	53.9	61.8	67.0	54.4	102.4	76.7	75.4	69.9	55.8	65.7
Jerry	55.6	73.2	71.0	65.1	105.9	99.9	85.2	74.8	79.4	78.3
McClintock	48.1	60.1	78.4	58.0	97.1	77.3	81.7	71.5	76.3	66.7
Millennium	49.7	74.2	74.2	65.5	112.6	89.3	85.8	73.7	80.6	75.7
Paul	55.4	--	50.2	--	89.3	--	86.4	--	70.3	--
Radiant	41.1	--	64.9	--	94.7	--	85.5	--	71.6	--
Ransom	46.9	69.4	81.7	63.8	100.9	95.2	79.4	73.1	77.2	75.4
Roughrider	49.1	60.8	51.1	47.0	87.8	80.5	72.2	66.1	65.1	63.6
Wendy	44.6	62.7	73.0	60.3	112.4	89.7	70.5 ¹	59.8 ¹	75.1	68.1
Wesley	43.7	62.8	75.0	64.3	112.0	78.0	89.8	71.5	80.1	69.2
Yellowstone	45.1	55.5	50.7	41.1	111.9	--	74.1	--	70.5	--
Mean	48.0	65.3	70.0	59.4	105.3	88.4	80.5	71.2	74.6	71.7

*3 year avg. for Prosper includes 2004 data from Casselton
¹yield reduced due to rodent damage

AGRONOMY NEWS

 *Grasslands for Tomorrow*

NON-PROFIT ORG
U.S. PO
STAGE PAID
BISMARCK, ND
PERMIT NO. 433

Volume 6, Issue 5

September 2006

Ducks Unlimited, Inc.
2525 River Road
Bismarck, ND 58503-9011

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Table 6. Test weight of winter wheat varieties grown at eight locations in North Dakota, 2006.

Variety	Williston	Hettinger	Minot	Mandan	Carrington	Langdon	Prosper	Lisbon	Average
------(lb/bu)-----									
Alice	62.1	59.6	60.3	57.6	62.1	59.2	57.0	59.8 ¹	59.7
CDC Buteo	62.9	60.0	62.5	58.3	62.1	61.0	59.4	60.3	60.8
CDC Falcon	60.4	56.8	61.2	55.0	60.8	59.2	56.2	56.4 ¹	58.3
Expedition	62.3	59.4	58.4	58.8	62.3	61.3	58.3	59.8	60.1
Goodstreak	60.4	57.6	59.4	55.2	60.0	53.8	55.1	56.0	57.2
Harding	60.2	56.8	60.9	56.6	59.3	58.9	58.3	58.5	58.7
Jagalene	63.8	60.2	61.9	58.6	63.3	58.9	55.4	59.2	60.2
Jerry	60.1	58.4	61.3	55.4	60.6	59.3	57.1	58.9	58.9
McClintock	61.9	56.7	62.1	57.4	60.4	62.0	58.0	59.8	59.8
Millennium	62.6	56.8	61.6	57.3	61.8	60.3	58.0	59.4	59.7
Paul	59.7	55.8	60.5	54.1	60.4	55.7	55.6	55.4	57.2
Radiant	59.2	57.3	61.0	55.8	59.7	56.6	56.3	56.4	57.8
Ransom	59.3	56.2	59.9	54.4	58.7	60.5	57.4	57.9	58.0
Roughrider	61.2	58.8	61.0	58.1	61.6	59.9	59.2	58.9	59.8
Wendy	62.8	58.8	60.0	58.5	62.5	60.3	57.2	60.0 ¹	60.0
Wesley	61.6	58.7	60.1	56.7	61.0	59.4	56.7	59.2	59.2
Yellowstone	60.8	56.4	61.0	55.6	56.2	53.7	56.2	55.7	57.0
Mean	61.3	57.9	60.8	56.7	60.7	58.8	57.1	58.3	59.0

¹Yield reduced due to rodent damage

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Reminder

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

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