

# AGRONOMY NEWS

 *Grasslands For Tomorrow*

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## White Wheat Incentive

Sign up for the 2004—2005 Hard White Wheat Incentive Program (HWWIP) started on October 1, 2003 and runs through May 31, 2005. HWWIP provides an incentive for producers to grow hard white wheat of both winter and spring varieties from the 2003 through 2005 crop years, which would subsequently increase production for domestic and export markets.

The program provides two payments to producers: an incentive payment of \$0.20 for each bushel of eligible hard white wheat produced, with a maximum of 60 bushels per acre eligible for payment, and a payment of \$2.00 per acre for each acre planted to certified seed. Producers are eligible to receive both the production incentive and certified seed incentive, if all applicable eligibility requirements are met. Contact your local FSA (Farm Service Agency) office for more information. (Information taken from USDA FSA Newsletter).

### ***Agronomy News***

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## Reminder

All "Agronomy News" issues can be found at Ducks Unlimited website:

**<http://prairie.ducks.org>**  
and click on "Agronomy News." ND and SD Winter Wheat seed grower directories are also available.

Email is another option for you to receive the newsletter. It will arrive 7-10 days sooner than by mail. Email Janell at [jrath@ducks.org](mailto:jrath@ducks.org) and let her know if you would like to receive it by email. You can receive it by email, mail, or both.

### ***Winter Cereal Sponsors***

*Ducks Unlimited*

*North Dakota Natural Resources Trust*

*South Dakota Game, Fish and Parks*

*North Dakota Game & Fish Department*

*Natural Resources Conservation Service (NRCS)*

*Day, Marshall, James River, Ransom and Wild Rice Conservation Districts*

*North Dakota Dept. of Health 319 Program*

*NDSU and SDSU Cooperative Extension Service*

## **Wheat Streak Mosaic Management**

Wheat Streak Mosaic was very prevalent in winter wheat fields in the central Great Plains states in 2004. It was also present in southern North Dakota and northern South Dakota winter wheat fields. It had a severe impact on yields within some fields. Fields yielding over 100 bushels per acre had areas yielding 20 bushels per acre. It is a disease that can be managed and requires proper field sanitation.

The following are conditions that favor Wheat Streak Mosaic:

- A hailstorm when the wheat is in the soft dough stage, resulting in early volunteer wheat.
- Planting winter wheat 10 days to two weeks earlier than recommended for your geographical area.
- Poor weed control following harvest.
- Cool, wet summers, which encourage volunteer wheat and enhance mite survival.
- Warm, dry weather in October and November, which promotes reproduction and spread of the wheat curl mite.
- Mild temperatures in March and April, which along with windy weather increases the spread of the mite and the virus.

The following aid in the control of Wheat Streak Mosaic:

- Do not plant winter wheat too early for your growing area. Plant at the proper date.
- Control volunteer wheat and grassy weeds with herbicides at least two weeks before fall planting.
- Plant cultivars with greater tolerance to Wheat Streak Mosaic.
- Practice good weed control in stubble fields following harvest.
- Avoid planting winter wheat next to late maturing green corn fields or late maturing small grain fields.

Additional information on Wheat Streak Mosaic management is available in bulletins from your Extension Service office. You can also go to DU's web site at <http://prairie.ducks.org> and click on Agronomy News newsletter archives and go to newsletter Vol. 3, Issue 4, Fall 2003 for more detailed information. The web site also contains a brief bulletin containing 10 steps for winter wheat management.

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## **2004 Variety Trials**

The preliminary SDSU and NDSU winter wheat crop performance testing (CPT) variety trial results are on pages four and five. Additional information can be obtained from their web sites at:

### **SDSU**

<http://plantsci.sdstate.edu/triticum/index.htm>

### **NDSU**

<http://www.ag.ndsu.nodak.edu/aginfo/variety/index.htm>

Data from the Research Extension Centers at Langdon and Minot, ND for the Langdon station and the Mohall off-station winter wheat variety trials, respectively, will be on the web sites when the data is processed. The NDSU variety table lists the previous crop stubble where the trials were no-till seeded.

A big thank you is extended to Dr. Ibrahim, SDSU, and Dr. Ransom, NDSU, their staffs, and those at the branch stations for their diligence in putting the variety data together in a timely manner in a tough harvest year.

### Prairie Ag Research Variety Trial Results

Prairie Ag Research and Ducks Unlimited sponsored a winter wheat variety trial with 15 varieties at Britton, South Dakota. The varieties were seeded into oat stubble using the Horsch Anderson 7.5-foot plot drill with 15-inch shank spacing and a 6-inch seed spread. Plot yields will be slightly higher because of a border effect as a result of a one-shank skip left unseeded between individual plots. Trial management information follows:

Pre-plant burndown	Roundup Ultramax @ 1.5 pt + AMS—September 4, 2003
Seeding Date	September 16, 2003
Seeding Depth	1.5 inch
Seeding Rate	80—85 pounds/acre
Starter Fertilizer	15 GPA of 10-34-0 placed in deep band with Anderson opener
Nitrogen	Soil Test = 92 lbs/A actual
	Starter (10-34-0) included 17 lbs/A actual
	April 8, 2004 Urea spread 55 lbs/A actual
	April 27, 2004 UAN (28-0-0) with stream bars 66 lbs/A actual 22 GPA
Total Nitrogen:	230 pounds per acre of actual nitrogen
Herbicide/Fungicide	Puma + Bronate Advanced + Headline @ 10.6 + 14.4 + 7 fl.oz./A May 18, 2004
Fungicide	Headline@9 oz/A at Feekes 10.53 growth stage June 11, 2004

Variety	Protein %	Test Weight lb/bu	Yield bu/ac
Jagalene	12.6	62.6	130.8
CDC Falcon	12.2	62.5	128.8
Wahoo	12.4	60.4	128.6
SD92107-5	13.2	61.8	122.6
Arapahoe	12.9	61.2	121.1
Harding	13.0	60.6	120.6
S96-35	12.4	60.9	120.5
Ransom	12.1	59.9	119.6
Millennium	12.6	61.7	116.7
Jerry	12.9	61.6	116.2
Expedition	12.4	62.7	114.2
Wesley	13.1	62.0	113.6
SD97W604	13.1	62.2	112.4
Crimson	13.0	61.7	107.5
Nekota	13.2	62.7	100.5
LSD .05		0.97	18.6

A big thank you goes to Dr. Roger Irwin for all the time and effort he invested to make this plot a success. The following have provided financial support, product or coordination:

SD Game, Fish & Parks Department  
 SDSU, Dr. Amir Ibrahim  
 SD Foundation Seed, Jack Ingmanson  
 Marshall County Equipment  
 SDSU Extension Service, Lorne Tilberg  
 Marshall County Conservation District

Anderson Machine, Kevin Anderson  
 NDSU, Dr. Joel Ransom and Scott Meyer  
 Wheat Growers, Bristol, SD  
 Cenex of Ellendale, ND  
 Natural Resources Conservation Service  
 BASF Corporation, Stewart Jones

**SDSU Winter Wheat Grain Yield and Test Weight data for the 2004  
Crops Performance Testing (CPT) Variety Trial—Preliminary Results**

Variety	Grain Yield (bu/a)										TW (lb/bu)		
	2004 State Average	2-yr Avg	3-yr Avg	Brookings	D. Lakes Pea Stubble	Highmore	Platte	Selby	Sturgis	Wall	Water-town	Winner	Average
SD97538	65	61		103	55	78	63	77	29	53	47	58	59
SD92107-5	63	59	53	96	52	78	76	71	27	61	42	49	59
SD00W024	63			99	53	71	71	70	28	59	44	53	59
SD97059-2	62	61		98	51	82	62	72	24	52	52	52	58
SD97394-1	62			99	58	77	62	75	29	47	46	51	59
SD98102	62	60	53	92	54	78	69	73	30	49	53	49	59
WAHOO	62	61	54	100	53	78	63	70	26	57	37	52	58
HARDING	61	58	52	93	46	76	72	68	27	56	45	52	58
JERRY	61	58	51	106	46	79	62	71	29	53	45	40	58
SD00258	61			103	47	73	66	70	24	50	47	52	58
MILLENNIUM	60	60	54	100	47	74	60	70	29	47	46	55	59
SD99073	60			91	57	76	61	66	24	49	46	51	59
JAGALENE	59	60	55	82	58	73	55	72	24	52	39	60	60
NE99533-4	59			90	55	73	60	67	29	50	44	50	60
SD97250	59	56	51	88	54	74	63	64	27	46	56	49	59
ALLIANCE	59	57	51	83	53	75	64	71	29	46	50	51	59
SD00111	58			84	55	76	59	71	24	46	46	48	59
SD97380-2	58	58		90	51	77	59	67	24	45	48	47	59
SD00032	57			90	53	71	57	68	19	46	53	49	59
TANDEM	57	55	50	84	53	71	63	65	26	51	42	46	60
SD97W671-1	57	57		88	55	76	53	67	21	47	41	46	59
WESLEY	56	57	51	96	47	72	60	58	25	48	42	39	58
SD97W609	56	58	52	86	50	67	58	69	22	41	38	44	58
TREGO	55	56	51	82	49	68	59	63	27	36	49	57	61
NEKOTA	55	55	50	86	51	72	58	60	28	45	31	47	59
SD00W041	54			78	45	73	56	65	21	49	25	56	59
ARAPAHOE	54	56	51	79	45	74	57	71	21	40	34	47	58
CRIMSON	54	55	48	80	53	64	57	66	27	48	41	38	59
EXPEDITION	53	56	51	91	45	62	58	62	21	47	39	40	60
WENDY	53	57	53	86	42	66	48	65	25	45	39	50	59
MEAN	59	58	52	91	51	74	61	68	26	49	44	49	59
LSD .05	3.5	2.1	1.8	16.4	13.1	7.6	10.4	6.9	7.2	5.7	13.8	8.1	0.47
CV%	12.2	11.6	13.4	12.9	18.2	7.2	12.1	7.2	17.4	8.1	15.5	11.64	1.6

**NDSU Winter Wheat—2004 Preliminary Crop Performance Testing—Variety Trial**

Variety	Williston Durum 2004	Williston Recrop 3 yr avg	Williston Fallow 2004	Williston Fallow 3 yr avg	Hettinger Soybeans 2004	Hettinger Recrop 3 yr avg	Mandan HRSW 2004	Minot Durum 2004	Minot Recrop 3 yr avg	Carrington Buckwheat 2004	Carrington Recrop 3 yr avg	Casselton Soybeans 2004	Casselton Recrop 2 yr avg	Lisbon HRSW 2004	Lisbon Recrop 3 yr avg
Arapahoe	32	28	81	55	43	41	52	87	64	88	64	105	83	86	60
CDC Falcon	30	-	82	58	42	45	48	91	69	88	69	129	96	120	69*
CDC Raptor	27	-	76	55	50	42	53	88	66	82	69	123	90	112	66
Elkhorn	30	36	72	55	50	41	52	82	62	92	69	107	83	98	61
Expedition	29	-	80	50	43	46	50	79	57	91	69	87	69	95	60
Goodbreak	37	-	85	-	51	-	-	100	-	101	-	102	82	113	-
Harding	34	32	81	57	61	50	53	89	68	94	76	114	87	111	69
Harry	36	-	81	-	53	-	-	83	-	100	-	92	-	109	-
Jagalene	37	-	82	-	42	-	52	83	-	97	-	82	59	108	-
Jerry	33	37	87	63	65	51	54	93	69	89	68	116	89	104	67
McClintock	35	-	83	-	54	-	-	85	-	82	66	86	65	98	-
Millenium	34	-	81	52	55	47	55	92	69	96	63	84	69	97	70
Morgan	32	-	92	64	49	40	-	99	71	86	60	112	89	103	62
Nekota	28	-	75	48	36	38	52	77	57	79	59	87	69	89	57
Norstar	31	39	77	58	52	43	-	82	63	75	65	101	82	120	67
Nuplains**	28	-	77	-	42	-	51	80	-	84	-	62	62	104	-
NuSky**	30	-	85	-	55	-	-	77	-	67	-	79	-	89	-
Paul	32	-	83	-	45	-	-	91	-	83	-	70	64	100	-
Ransom	31	31	83	57	47	41	51	83	64	95	61	118	87	104	61
Roughrider	29	34	71	53	50	39	44	85	66	74	55	102	79	99	56
Wendy**	36	-	89	-	46	-	53	87	-	85	-	106	-	86	-
Seward	31	31	77	59	61	44	-	87	66	76	59	114	88	99	57
Wahoo	34	-	77	52	49	46	50	84	71	73	60	105	80	101	68
Wesley	28	-	77	45	44	41	50	78	59	88	62	78	62	97	65

\*Includes 1 year of rodent damaged reduced yields.

\*\*White Wheat Varieties

1—Hard Frost (25 degrees F) on June 18, 2004 caused some spikelette sterility.

2—Trial had significant hail damage on June 6, 2004.

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## Millennium Seed Available

There are three seed increase growers of the Nebraska winter wheat variety **Millennium** in North and South Dakota that are known at the present time. The variety has performed very well in SDSU and NDSU variety trials in 2002 and 2003. It is a medium height variety with very good straw strength and yield potential. Millennium has the ability to do well across a broad range of environmental conditions. Its winter survival appears to be similar to Wesley and Arapahoe.

These growers will have the Certified class of seed available. David Kinzler from Ellendale, ND and Doug Rotenberger from Lisbon, ND and Walter Farms from Carpenter, SD will have Millennium seed this fall. They can be contacted by telephone at:

David Kinzler	701-349-4101
Doug Rotenberger	701-683-5762
Walter Farms	605-352-0303

The South Dakota Crop Improvement Association and North Dakota State Seed Department have their lists of 2004 winter wheat seed increase growers at the following web sites:

South Dakota: <http://plantsci.sdstate.edu/seedcert/Growerdir.htm>

North Dakota: <http://www.state.nd.us/seed/reports>

UAP Northern Plains has the rights to the variety CDC Falcon and you can obtain seed by calling Ron Gienger at Valley City, ND at 1-800-728-6958 or 701-845-5523. The variety Jagalene can be obtained from AgriPro dealers or by calling David Boehm at 701-298-0511.