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Western Ag Labs Announces Accipiter and Peregrine Winter Wheat Varieties

Varieties were developed by the Department of Plant Sciences, University of Saskatchewan.

CDC ACCIPITER - CDC Accipiter is a hard red winter wheat with grain yield potential that is better than CDC Falcon. Its winter hardiness is superior to that of CDC Falcon. It has a plant height that is taller than CDC Falcon and considered an intermediate height semi-dwarf. It has a R-MS leaf and stem rust ratings. The leaf spot necrosis rating for CDC Accipiter was 28% and CDC Falcon 57% at Lisbon, ND in 2009.

CDC PEREGRINE - High grain yield potential is the primary strength of CDC Peregrine. In NDSU 2009 variety trials, CDC Peregrine's yield was 107% of CDC

Falcon. CDC Peregrine has winter hardiness that is better than CDC Falcon and similar to the cold tolerant check cultivar Jerry. It is slightly taller than Jerry, but its straw strength is comparable to Jerry. The stem and leaf rust resistance is similar to the most



resistant checks. Limited data from 2006 suggests that CDC Peregrine has stripe rust resistance that is superior to the check cultivars. The leaf spot necrosis rating for CDC Peregrine was 27% and CDC Falcon 57% at Lisbon, North Dakota in 2009.

NDSU Preliminary Winter Wheat CPT Results 2009 (Bu/A)

Variety	Williston	Dickinson	Hettinger	Mandan	Carrington*	Prosper	Lisbon	Langdon	Minot	Average	Test Wt (lb/bu)	Protein %
Overland	48.0	72.1	45.2	84.4	34.8	62.8	65.1	102.5	83.0	66.4	59.6	12.2
CDC Peregrine	51.5	68.2	44.5	86.0	38.8	55.0	57.0	108.2	86.6	66.2	60.2	11.4
Darrell	46.9	71.8	48.9	77.1	38.0	47.8	64.5	107.2	92.5	66.1	58.6	12.5
Boomer	47.4	70.9	53.4	81.8	32.8	58.0	48.6	107.7	79.2	64.4	58.6	12.1
CDC Accipiter	49.5	68.5	51.0	80.8	30.3	52.1	60.8	99.0	89.9	64.7	58.1	11.8
Expedition	41.4	67.1	44.6	80.9	27.6	56.0	61.4	108.5	77.1	62.7	60.1	12.1
CDC Falcon	49.9	70.4	50.5	78.7	21.0	52.9	50.3	105.8	76.7	61.8	59.1	12.1
Lyman	40.6	61.4	49.5	87.5	25.9	61.4	49.5	102.3	81.8	62.2	60.1	13.5
Yellowstone	50.3	73.7	42.9	75.7	30.8	47.3	44.0	103.6	81.1	61.0	57.4	12.0
Millennium	43.6	60.4	45.2	77.7	33.7	61.1	62.0	84.6	73.4	60.2	59.7	12.3
Wesley	43.0	57.3	43.6	81.7	27.9	42.5	67.2	103.9	73.1	60.0	58.5	13.0
Jerry	47.0	58.9	44.3	76.3	34.4	52.2	51.5	101.4	75.5	60.2	58.7	12.5
CDC Buteo	46.4	63.2	43.4	80.1	30.0	48.7	51.0	96.9	83.1	60.3	60.9	12.3
Art	43.1	55.8	36.2	80.4	25.7	48.3	55.2	114.6	84.7	60.4	59.0	12.9
Jagalene	45.1	56.0	43.3	86.7	31.9	45.8	62.4	87.4	86.2	60.5	59.5	12.4
Alice	42.5	61.5	42.0	78.3	27.1	56.7	49.1	100.2	73.0	58.9	59.3	12.2
Hawken	43.6	61.7	52.4	83.2	28.0	43.8	49.9	88.0	60.8	56.8	59.7	12.7
Striker	43.3	61.1	47.0	74.0	31.4	45.9	44.5	100.1	71.7	57.7	58.9	12.4
Mace	42.2	72.2	42.8	76.5	27.6	39.2	52.3	87.8	72.9	57.1	57.7	12.4
Average	45.5	64.9	45.8	80.4	30.4	51.4	55.1	100.5	79.1	61.5	59.1	12.4
LSD 5%	4.1	NS	5.1	8.1	8.2	8.7	9.6	10.4	NS			
CV%	6.2	23.9	7.7	7.1	18.2	11.3	9.9	7.3	13.9			

*Carrington experienced lower yields due to nitrogen and weed control issues

Trial Management - Dr. Joel Ransom, Chad Deplazes, NDSU Research Extension Centers

Access detailed data at:

<http://www.ag.ndsu.edu/smgrains/ww%20circular%202009.pdf>

WestBred Releases Two New Winter Wheat Varieties

The varieties Boomer and Striker were developed to eventually replace CDC Falcon and CDC Buteo in the WestBred winter wheat line up for the Northern Plains. Foundation seed was produced in MN and SD in 2009. They are a cross between Jerry and CDC Falcon, the logic behind this cross was to get a winter hardy variety with the yield attributes of CDC Falcon and Jerry, the standability and height of CDC Falcon and the leaf rust resistance of Jerry.

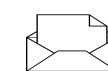
Boomer and Striker are both high yielding wheat's with excellent winter hardiness suited for growing in the Dakotas and Minnesota. Striker and Boomer have good test weight. Both have excellent leaf rust resistance but are moderately susceptible to Fusarium head blight, stripe rust, tan spot, and Septoria. The following descriptions are in comparison to CDC Falcon.

BOOMER - Has consistently better yield than CDC Falcon, one day later heading with some stay green, tillers well, has adequate protein levels, is about two inches taller than CDC Falcon but is much shorter than Jerry, an improvement in leaf rust disease reaction with a rating of MR, similar rating (MS) for Fusarium head blight, stripe rust, tan spot, and Septoria. Resistant to most stem rusts. Winter hardiness is a little better than CDC Falcon.

STRIKER - Has a similar yield with a little better winter hardiness, a little earlier heading and faster maturing, a true semi-dwarf, possessing short stiff straw, similar in height to a little shorter than CDC Falcon (mainly due to its nodding head at maturity), easy to thresh and has good protein levels. Striker has an improvement in leaf rust resistance with



a MR rating, similar Fusarium head blight rating, stripe rust, tan spot and Septoria disease reaction ratings at MS. It is resistant to most stem rust races and shows some resistance to hessian fly.



If you would like to receive this newsletter via e-mail, or have any questions or comments, send it to: agronomy@ducks.org

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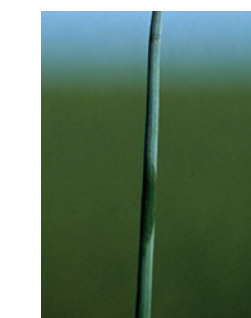
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AGRONOMY NEWS

Vol 9 - Issue 3

Winter Cereals

Sustainability in Action



NDSU Extension agronomist focusing on winter cereals production

John Lukach, NDSU Extension Service area specialist/agronomy, will begin winter cereals production research for the Winter Cereals: Sustainability in Action initiative at the Langdon Research Extension Center. Lukach is responsible for planning, coordinating and conducting the research, as well as developing and coordinating production and soil management educational materials, meetings, tours and other activities.

"John Lukach is a highly experienced agronomist who has earned the respect from growers across the region as a result of his field research, and ability to communicate successful cereal management practices to the masses," said Blake Vander Vorst, manager of Ducks Unlimited's agronomy program. "John will be a tremendous asset as he establishes this new position."

Winter Cereals: Sustainability in Action is a joint research and education initiative of Ducks Unlimited and Bayer CropScience. The initiative includes increased winter wheat agronomic assistance, expanded research into new winter wheat varieties and research on the benefits of winter cereals for wildlife and the environment.

Steve Dvorak also recently joined Ducks Unlimited as field agronomist. Dvorak is responsible for the training and education of growers who are committed to adopting winter wheat on their acres. He is also responsible for managing field trial research in 16 counties across south-central and south-east North Dakota.

Roger Knapp, DU agronomist who had served southeast North Dakota counties, will now serve northeast South Dakota counties.

DU is also forging agreements with state universities to conduct research to find new varieties of winter cereals; and is planning nesting survival research for spring 2010.

"We are very excited about the current direction of this project," said Geoff Kneen, vice president of special projects for Bayer CropScience. "Both organizations are committed to expanding winter cereals across the prairies in Canada and the United States. This is an important program which will continue to receive significant attention and resources as a way to secure its long range success."

Winter Cereals

Sustainability in Action

Winter Cereals Sustainability in Action
is a program of Ducks Unlimited
and Bayer CropScience





Tagus, North Dakota 2009 Winter Wheat Variety by Fungicide Trial Results*

Variety	Winter Survival %	Yield Bu/A		Test Weight LB/bu		Flag Leaf Disease %	
		No Fung	Fung	No Fung	Fung	No Fung	Fung
Accipiter	95	51.4	58.2	62.7	63.4	21.8	7.8
Alice	91	45.1	61.0	62.8	64.0	53.0	10.5
AP503	84	37.3	52.5	63.7	64.2	41.8	12.5
Art	84	49.1	57.4	63.4	64.5	36.8	10.5
Boomer	92	53.1	58.5	62.4	63.6	50.0	11.8
CDC Buteo	94	47.8	54.0	63.8	64.1	35.3	7.8
CDC Falcon	95	49.8	56.2	63.2	64.2	38.8	11.8
Darrell	90	54.7	60.6	62.6	63.0	27.0	9.0
Hawken	86	45.7	53.2	63.6	64.3	24.3	7.3
Jagalene	85	45.1	50.5	63.8	63.9	35.8	11.8
Jerry	95	56.4	60.0	62.2	63.3	28.0	8.8
Lyman	92	47.1	54.0	64.2	65.3	43.3	11.3
Mace	83	35.9	43.2	62.2	62.6	40.5	11.3
Millennium	92	51.0	56.8	63.6	64.2	27.5	6.5
Overland	91	60.1	64.8	63.8	64.3	27.0	7.1
Peregrine	94	47.5	59.2	62.7	63.9	17.0	4.3
Settler-CL	83	32.3	46.2	62.9	63.6	32.0	8.3
Smokey Hill	89	58.4	69.7	64.3	65.5	26.8	8.8
Striker	91	51.5	58.0	63.4	65.5	41.8	10.3
Wesley	90	47.4	55.0	63.7	65.2	34.5	10.5
CA9W07-817	92	53.8	57.9	63.3	64.1	32.5	7.8
SD-05118	90	46.5	54.9	63.7	64.2	41.8	7.8
PST 42	87	58.1	65.7	58.6	60.0	15.8	3.5
Mean	89.8	48.9	56.8	63.1	64.0	33.6	9.0
LSD 5%	6	8.2		1.1		5.7	
CV%	5	11		1.3		19.1	

Cooperator - Kent Neshem
Sponsors - Bayer CropScience, Ducks Unlimited
Trial Management - Kent McKay, Jay Kurtz, John Hvidsten - Vision Research Park
Partners - NDSU North Central Research Extension Center, NDSU Extension Service of Ward, Mountrail and McLean Counties, Vision Research Park, United Agronomy, Birdsall Grain & Feed

*LSD (Least Significant Difference) = the number of units (either bu/A or protein percentage points or test weight) difference required in order to be considered statistically different. The LSD applies to both varietal differences within a fungicide treatment (with or without) as well as to the effect of fungicide within a variety.

Roscoe, South Dakota 2009 Ducks Unlimited Winter Wheat Variety Trial*

Variety	Untreated (Bu/a)	Stratego + Prosoaro + Proline (Bu/a)	Protein %	Test Wt (lb/bu)
SD-05118	91.4	121.8	11.9	58.3
CA9W07-817	92.0	113.1	12.0	58.0
Millennium	85.4	112.3	12.1	58.6
Expedition	87.5	110.2	12.3	59.2
Overland	95.8	108.9	12.1	58.8
Millennium ST	91.6	105.3	12.0	58.9
Alice	81.0	105.2	12.0	58.9
Peregrine	91.9	104.7	11.3	57.8
Boomer	82.2	104.5	11.8	55.2
Smokey Hill	95.7	103.7	12.7	57.9
Jerry	84.1	102.1	12.2	55.6
Striker	80.8	101.6	12.2	57.6
CDC Falcon	86.6	100.0	11.9	56.5
Art	88.2	99.9	12.8	56.2
Mace	68.3	98.4	12.1	55.5
Darrell	82.1	97.5	12.1	57.4
Settler-CL	75.5	95.4	12.1	57.2
Accipiter	79.1	95.2	11.3	54.4
Jagalene	73.5	94.1	13.0	56.7
Lyman	86.6	94.1	12.9	59.8
Hawken	75.3	92.1	13.6	56.1
Hitch	94.4	91.3	11.7	53.0
Wesley	77.5	90.6	13.2	55.8
AP503CL2	69.6	86.4	12.9	55.9
CDC Buteo	77.2	82.4	11.8	56.5
Mean	84.6	101.8	12.2	57.1
LSD 5%	15.6		0.51	0.5
CV%	10.4		2.54	2.5

Cooperator - Bruce & Janet Fuhrmann
Sponsors - Bayer CropScience, Ducks Unlimited
Trial Management - Ducks Unlimited - Blake Vander Vorst, Roger Knapp, Steve Dvorak, SDSU - Dr. Bill Berzonsky, Steve Kalsbeck, Alex Kalsbeck, David Vander Vliet, Mark Rosenberg
Partners - SDSU Extension Service, SD Foundation Seed, SD Wheat, Inc., North Central Farmers Elevator - Ipswich, Wheat Growers - Roscoe, Applied Agronomics Consulting, Warrington Seed - Bristol

Seeded - 9-25-2008; 1.2 mil PLS; 1.0 to 1.5 inches in depth; no seed treatment (except AP503CL); NDSU's Great Plains 3P605NT drill; seeded by Vision Research Park

Fertility - Soil N = 38 lbs/A; 4-23-09 - 56 gpa 28-0-0 or 168 lbs of N
Herbicide - 9-16-08 WeatherMax; 5-22-09 Huskie + Rimfire + MSO-HC 5 to 6 leaf stage

Fungicide - 5-22-09 Stratego + NIS applied on fungicide treated replications; 6-19-09 Prosoaro + NIS early flower; 6-25-09 Proline + NIS early flower; Applied two early flower growth stage fungicide treatments to compensate for the extended differences in heading dates among varieties. All varieties in the fungicide treated replications received both the Prosoaro and Proline treatments. Under normal field conditions with just one variety, only one application would be made at flowering.

Seeded - 9-25-2008; 1.2 mil PLS; 1.0 to 1.5 inches in depth; no seed treatment (except AP503CL); NDSU's Great Plains 3P605NT drill; seeded by Vision Research Park

Fertility - Soil N = 27 lbs/A; 5-6-09 - 57 gpa 28-0-0 or 170 lbs of N
Herbicide: September 8 and 16, 2008 WeatherMax; 5-22-09 Axial + Adigor+ Orion at 5 to 6 leaf stage

Fungicide - 5-22-09 Tilt applied on fungicide treated replications; 6-19-09 Prosoaro + NIS early flower; 6-25-09 Proline + NIS early flower; Applied two early flower growth stage fungicide treatments to compensate for the extended differences in heading dates among varieties. All varieties in the fungicide treated replications received both the Prosoaro and Proline treatments.

Ellendale, North Dakota 2009 Ducks Unlimited Winter Wheat Variety Trial*

Variety	Untreated (Bu/a)	Stratego + Prosoaro + Proline (Bu/a)	Protein %	Test Wt (lb/bu)
Boomer	83.2	114.7	12.3	61.3
Smoky Hill	82.2	108.3	13.0	62.2
Striker	85.3	105.7	13.0	62.1
Art	86.1	105.2	13.4	62.4
Accipiter	92.3	103.2	11.8	61.6
CDC Buteo	80.5	102.4	12.5	60.0
Jerry	93.2	102.1	13.0	61.0
Peregrine	101.3	99.0	12.0	61.5
Overland	82.1	98.7	13.1	61.7
Hawken	74.7	97.7	13.9	61.6
CDC Falcon	85.8	97.5	12.1	61.1
CA9W07-817	93.5	95.7	12.9	61.5
Lyman	88.3	94.3	14.1	62.2
Expedition	84.2	93.8	13.2	61.9
Darrell	77.5	92.8	13.0	61.0
Millennium	75.3	92.1	13.0	61.2
SD-05118	90.0	89.8	13.0	61.7
AP503CL2	61.5	89.7	12.7	62.5
Hitch	91.7	86.9	11.9	59.3
Jagalene	68.8	84.1	12.8	60.9
Alice	75.1	82.9	12.9	61.2
Wesley	79.6	81.7	14.0	60.8
Settler-CL	67.9	81.1	12.3	60.9
Mace	80.9	80.9	12.7	60.6
PST 34	70.5	63.8	11.9	52.4
PST 41	63.8	44.6	12.9	49.8
Mean	80.8	91.9	12.8	60.5
LSD 5%	23.5		.62	3.21
CV%	16.8		2.94	3.25

Cooperator - Larry & Jane Andersen
Sponsors - Syngenta Crop Protection, Ducks Unlimited
Trial Management - Ducks Unlimited - Blake Vander Vorst, Roger Knapp, Steve Dvorak, NDSU Carrington Research Extension Center - Greg Endres, Blaine Schatz, Eugene Elhard
Partners - Dickey County Crop Improvement Association and NDSU Extension Service, Wheat Growers of Oakes, Cenex of Ellendale, Fullerton Agronomy Services, K&S Soils Analysis, NDSU Foundation Seed, SD Foundation Seed, David Kinzler, Greg Richter, Joe Breker, WestBred Seeds, AgriPro Seeds, Western Ag Lab

South Dakota Winter Wheat Variety Yield Results 2009 (Bu/A)

	Kennebec	Wall	Hayes	Winner CPT	Winner IMS ²	Brookings CPT	Brookings IMS ²	Selby	Platte	Onida	Pierre	Average	Test Wt lbs/bu	Protein %
SD06069	65	57	50	73	81	75	86	78	68	48	43	66	60.0	14.1
Smoky Hill	61	43	50	81	81	66	84	77	81	49	48	66	59.9	13.9
SD05118	64	48	51	80	73	72	85	79	79	48	40	65	59.2	13.8
SD06158	64	53	46	72	78	70	79	84	75	47	50	65	59.7	13.5
Expedition	62	39	55	75	86	71	84	70	83	49	46	65	60.0	13.7
Overland	60	51	51	73	79	65	73	73	79	52	50	64	59.6	13.5
Settler CL	60	45	57	77	83	63	74	69	72	51	46	63	59.3	13.1
Wahoo	70	53	49	74	76	54	63	75	81	49	48	63	58.4	14.1
Darrell	60	46	54	70	75	72	73	76	73	52	43	63	59.4	13.5
NuDakota-W	58	42	47	84	78	67	73	75	71	46	42	62	57.1	13.8
Wesley	59	43	46	73	74	68	66	75	83	49	46	62	58.2	14.5
SD06163	63	44	54	69	73	67	72	74	83	43	44	62	59.6	14.1
Fuller	53	38	46	81	80	68	83	72	69	47	41	62	59.2	13.9
SD05W018	51	45	47	69	72	75	81	74	71	46	48	62	59.5	13.3
Wendy-W	46	42	52	77	72	66	79	77	79	48	48	62	60.0	14.1
Art	47	37	50	77	76	78	76	77	72	45	36	61	59.4	14.8
Millennium	59	50	50	73	71	62	73	72	73	47	41	61	59.3	13.8
Infinity CL	58	49	55	73	76	65	78	69	68	48	37	61	60.0	13.1
Hawken	52	39	47	75	81	64	74	74	70	50	42	61	59.6	14.2
SD03164-2	48	43	48	72	78	71	78	63	80	44	44	61	59.6	14.3
Radiant	62	56	56	59	65	60	75	83	52	51	43	60	58.4	13.7
Striker	61	46	54	69	69	67	77	78	60	37	38	60	59.3	14.2
Lyman	53	41	50	76	67	69	81	67	73	45	38	60	59.7	14.2
Harding	63	51	50	65	64	63	73	77	65	44	40	60	59.6	14.4
Hatcher	46	49	45	75	77	58	77	68	66	51	37	59	58.6	13.1
Jagalene	53	36	46	71	84	50	68	70	76	51	45	59	59.3	14.0
Arapahoe	59	46	51	72	67	64	73	71	71	44	34	59	58.6	14.3
Alice-W	53	38	47	71	75	68	79	62	67	46	39	59	59.4	13.7
Jerry	58	55	51	60	58	62	73	76	64	45	33	58	58.8	14.3
AP503CL2	54	35	49	64	76	68	70	64	68	41	39	57	60.2	13.5
Average	57	45	50	73	75	66	76	73	72	47	42	62	59.2	13.9
LSD%	8	5	6	10	9	12	9	10	9	6	7			
CV%	10	7	8	10	9	13	9	9	9	10	11			

Trial Management - Dr. Bill Berzonsky, Steve Kalsbeck, Alex Kalsbeck
 *Indicates intensive management study (IMS).

