

2008 Winter Wheat Variety Trial - Continuously Cropped - No-till

Hettinger

Variety	Winter Surv.	Heading Date	Plant Height	Test Weight	Grain Protein	---- Grain Yield ----			Average Yield	
	%	June	inches	lbs/bu	%	2006	2007	2008	2 yr	3 yr
----- Bushels per acre -----										
Radiant	96	17	37	53.9	11.7	41.7	59.5	48.1	53.8	49.8
CDC Buteo	99	17	34	58.8	12.1	36.9	60.1	43.8	52.0	46.9
Harding	98	14	36	56.4	11.1	27.0	59.5	50.6	55.0	45.7
Jerry	91	18	39	55.2	11.2	24.8	59.3	49.0	54.2	44.4
Yellowstone	97	18	36	53.3	13.1	20.4	59.3	51.5	55.4	43.7
CDC Falcon	97	16	33	58.2	11.4	8.7	65.9	53.2	59.6	42.6
Jagalene	87	17	35	57.8	11.4	20.9	60.5	46.1	53.3	42.5
Wesley	98	9	30	56.8	12.2	19.1	57.8	50.5	54.2	42.5
Expedition	97	11	34	56.1	11.6	19.4	60.5	47.2	53.8	42.4
Millennium	99	12	37	58.6	11.0	8.7	63.0	49.4	56.2	40.4
Alice*	96	15	33	59.1	10.8	14.7	54.3	49.7	52.0	39.6
Roughrider	93	17	38	55.3	12.3	28.3	49.5	35.6	42.6	37.8
Hawken	98	10	32	57.8	10.9		63.0	48.4	55.7	
NuDakota*	97	14	29	56.1	10.8		55.5	52.6	54.0	
Darrell	95	12	36	57.6	11.6		57.0	50.3	53.6	
Overland	99	12	33	58.3	9.4			50.0		
Accipiter	96	19	34	54.9	11.4			49.8		
AP503CL2	98	14	31	59.5	10.5			49.1		
Norris	98	12	36	58.6	9.2			48.8		
Peregrine	99	16	41	56.2	10.8			45.1		
Lyman	94	12	34	58.7	11.1			42.8		
Trial Mean	97	15	35	56.9	11.3	22.1	58.1	48.3	--	--
C.V. %	5.1	14.0	6.0	2.5	9.8	46.1	6.7	6.8	--	--
LSD .05	NS	3	3	2.0	1.5	17.0	5.5	4.6	--	--
LSD .01	NS	4	4	2.6	2.1	NS	7.2	6.1	--	--

* Hard white winter wheat.

NS = No Statistical difference between varieties.

Planting Date: September 11, 2007 Harvest Date: July 28, 2008

Seeding Rate: 1 million live seeds / acre (approx. 1.4 bu/A).

Previous Crop: 2005 = soybean, 2006 = field pea, 2007 = durum.

Notes: The 2006 trial sustained severe heat and moisture stress.

2008 North Dakota hard winter wheat variety description table, agronomic traits.

Variety	Agent or Origin	Year	Quality ¹	Reaction to Disease ²			Maturity	Straw Strength	Height	Winter ⁴ Hardness
				Leaf Rust	Stem Rust	Scab ³				
Accipiter	Can	2008	Good	MS	R	NA	Med.	Strong	Short	Good
Agassiz	ND	1983	Average	S	R	NA	Med.	Med.	Med.	Good
Alice ⁵	SD	2006	Good	S	MR	S	Early	M. strong	Short	Fair
Arapahoe	NE	1989	Poor	MS	MR	MS	Med.	Med.	Med.	Fair
CDC Buteo	Can/WB ⁵	2004	Average	MS	NA	S	Med.	Med.	Med.	Good
CDC Falcon	Can/WB	2000	Average	MS	NA	S	Med.	M. strong	Short	Good
CDC Raptor	Can.	2002	NA	MS	NA	NA	Med.	M. strong	M. short	Good
Crimson	SD	1997	Good	S	MS	NA	Med.	M. strong	Med.	Fair-Good
Culver	NE	1998	Poor	MS	MR	NA	M. early	M. strong	Med.	Good
Darrell	SD	2006	Average	MS	R	MS	Med.	Strong	Med.	Good
Elkhorn	ND	1995	Average	MR	R	NA	Med.	Med.	Med.	Good
Erhardt	MT	1996	NA	S	R	NA	Med.	Strong	Med.	Good
Expedition	SD	2002	Average	MS	R	S	Med.	Strong	Med.	Good
Goodstreak	NE	2002	Average	S	MR	S	M. early	Med.	Tall	Fair
Harding	SD	1999	Average	MS	NA	S	Med.	M. strong	Med.	Good
Harry	NE	2002	Poor	MR	MR	NA	Med.	Strong	Med.	Poor
Hawken	Agripro	2007	Good	MR	MR	NA		Strong	V. short	Fair-Poor
Jagalene	Agripro	2002	Average	S	MR	VS	Early	Strong	Short	Fair
Jerry	ND	2001	Good	MR	R	MS	Med.	Strong	Med.	Good
McClintock	Can	2003	Average	S	NA	S	Med.	Strong	Med.	Fair
Millennium	NE/SD	1999	Average	MR	MR	S	Med.	Strong	M. short	Fair
Morgan	WB†	1996	NA	S	NA	NA	Med.	M. strong	Med.	Good
Nekota	SD/NE	1997	Good	MS	MR	NA	Early	V. strong	V. short	Good
Norstar	Can.	1977	Average	S	S	NA	Late	Med.	Tall	Good
NuDakota ⁶	Agripro	2006	Average	MR	MR	NA	M. early	Strong	Short	Poor
Nuplains ⁶	NE	2000	Average	S	MS	VS	Med.	M. strong	Short	Fair-Poor
NuSky ⁵	MT	2001	Avg-Good	S	NA	S	Med.	M. strong	Med.	Fair
Overland	NE	2006	Avg-Fair	MR/R	MR	NA	Med.	Strong	Short	Fair
Paul	MT	2003	Average	S	NA	NA	Med.	Med.	Med.	Fair
Peregrine	Can.	2008	Average	MR	R	NA	Med.	Strong	Med.	Good
Radiant ⁷	Can.	2005	Average	S	S	S	Late	V. strong	Tall	Good
Rampart ⁸	MT	1996	NA	S	R	NA	Med.	Strong	Med.	Poor
Ransom	ND	1998	Good	MR	NA	S	M. early	Med.	Med.	Good
Rose	SD	1981	Poor	S	MS	NA	Early	V. strong	Short	Fair
Roughrider	ND	1975	Good	S	R	MS	Med.	M. strong	Med.	Good
Seward	ND	1987	Poor	S	R	NA	Med.	M. strong	Med.	Good
Tandem	SD	1997	Good	S	NA	NA	Early	Med.	Med.	Fair
Wahoo	NE/WY	2001	Poor	S	R	S	Med.	M. strong	Med.	Fair
Wendy ⁶	SD	2004	NA	MS	MR	S	M. early	M. strong	Short	Fair-Good
Wesley	NE/SD/WY	2000	Average	MS	R	VS	M. early	M. strong	Short	Fair
Windstar	NE	1997	Average	MS	NA	NA	Early	Med.	Med.	Fair-Good
Yellowstone	MT	2005	NA	NA	S	VS	Med.	Med.	Med.	Good

¹NA = data not available, or data insufficient to give rating.

²R = resistant; MR = moderately resistant; MS = moderately susceptible; S = susceptible; VS = very susceptible; NA= not available.

³Primarily based on data collected in 2005 from several locations.

⁴Varieties with less than good winter hardiness should be seeded only in tall stubble.

⁵WB=Westbred

⁶White wheat.

⁷Curl mite resistant.

⁸Saw fly resistant.

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Mandan

Cooperator: USDA-ARS, Northern Great Plains Research Lab., Mandan

This Trial was funded by Ducks Unlimited, Bismarck

Variety	Winter	Plant	WSMV*	Test	Grain	---- Grain Yield ----			Average Yield	
	Surv.	Height		Weight	Protein	2006	2007	2008	2 yr	3 yr
	%	inches	%	lbs/bu	%	----- Bushels per acre -----				
Millennium	99	32	12	53.9	12.8	36.9	84.2	55.5	69.8	58.9
Jagalene	96	29	2	55.4	12.7	42.0	60.1	56.7	58.4	52.9
CDC Buteo	99	32	4	56.2	12.6	38.3	70.7	49.2	60.0	52.7
Harding	99	31	3	52.5	12.2	36.5	69.1	52.3	60.7	52.6
Jerry	97	33	0	53.0	13.2	39.1	60.5	57.7	59.1	52.4
Wesley	91	25	20	51.3	13.7	41.1	73.1	38.0	55.6	50.7
Radiant	97	34	0	53.8	11.9	36.5	55.7	57.3	56.5	49.8
Alice**	81	26	10	52.1	12.4	43.5	61.6	42.1	51.8	49.1
CDC Falcon	98	27	9	53.3	11.7	37.4	54.1	52.6	53.4	48.0
Roughrider	98	37	0	52.1	13.2	37.2	66.0	38.6	52.3	47.3
Expedition	98	29	13	53.5	12.2	36.9	55.7	47.9	51.8	46.8
Yellowstone	91	31	2	52.9	12.6	34.5	50.6	53.6	52.1	46.2
Darrell	97	30	0	53.8	12.8		73.5	60.1	66.8	
Hawken	71	25	2	54.0	13.4		74.3	39.1	56.7	
NuDakota**	82	25	2	51.7	12.8		67.2	45.4	56.3	
Overland	98	30	0	54.3	12.1			58.9		
Accipiter	99	29	16	54.1	12.0			55.0		
Peregrine	98	37	20	53.4	12.4			52.3		
AP503CL2	70	27	2	54.0	12.7			44.1		
Lyman	94	30	18	52.2	12.8			43.5		
Norris	77	31	0	51.8	12.9			36.9		
Trial Mean	93	30	7	53.3	12.7	37.5	62.7	49.2	--	--
C.V. %	12.4	4.5	242	3.3	3.9	16.5	14.3	14.0	--	--
LSD .05	16	2	NS	2.5	0.7	NS	14.7	9.7	--	--
LSD .01	21	3	NS	3.3	0.9	NS	19.6	12.9	--	--

* % of plants infested with Wheat Streak Mosaic Virus

** Hard white winter wheat.

NS = No Statistical difference between varieties.

Planting Date: September 12, 2007 Harvest Date: August 12, 2008

Seeding Rate: 1 million live seeds / acre (approx. 1.4 bu/A).

Previous Crop: 2005 & 2006 = HRWW, 2007 = soybean.