

2006 Hard Red Spring Wheat – Continuously Cropped - No-till Hettinger

Variety	Days to Head	Plant Height	Test Weight	Grain Protein	---- Grain Yield ----			Average Yield	
					2004	2005	2006	2 yr	3 yr
		inches	Lbs/bu	%	----- Bushels per acre -----				
Reeder	63	25	58.0	15.8	49.3	50.2	40.8	45.5	46.8
Steele-ND	63	26	57.6	16.2	49.8	46.2	38.1	42.2	44.7
Briggs	61	24	58.7	15.9	49.4	45.0	39.2	42.1	44.5
Traverse	62	25	55.8	15.2	47.2	47.6	38.6	43.1	44.5
Mercury	62	22	58.1	15.6	46.4	47.2	37.8	42.5	43.8
Norpro	64	23	57.9	16.1	49.0	45.8	36.6	41.2	43.8
Fryer	62	27	58.1	15.6	46.6	46.0	38.0	42.0	43.5
Outlook	67	25	55.9	15.7	49.0	40.8	39.4	40.1	43.1
Oxen	60	23	58.2	15.3	40.4	49.8	38.5	44.2	42.9
Parshall	63	28	57.2	16.1	47.9	42.3	37.3	39.8	42.5
Glenn	61	25	58.9	16.4	47.2	43.6	35.8	39.7	42.2
Howard	64	25	57.6	16.2	50.2	39.7	36.3	38.0	42.1
Trooper	61	22	57.9	15.5	48.1	41.3	36.8	39.0	42.1
Russ	64	27	55.6	16.2	44.9	42.3	36.9	39.6	41.4
Ingot	60	26	60.0	16.4	44.0	41.7	37.8	39.8	41.2
Hanna	62	26	58.8	15.7	47.8	40.3	35.5	37.9	41.2
Banton	59	26	60.2	16.1	39.7	45.0	34.9	40.0	39.9
AC Superb	64	26	55.2	16.4	46.8	36.9	35.5	36.2	39.7
Alsen	64	26	58.6	16.2	41.7	39.4	38.1	38.8	39.7
Gunner	67	25	56.8	16.9	46.1	38.3	34.5	36.4	39.6
Choteau	64	22	55.4	16.4	42.2	39.7	36.5	38.1	39.5
Dapps	64	29	55.7	16.7	46.5	39.1	33.0	36.0	39.5
Knudson	64	23	56.8	15.7	44.9	36.6	36.9	36.8	39.5
Granite	68	22	58.3	17.8	46.2	36.6	33.6	35.1	38.8
AC Amazon	66	28	54.7	16.0	46.0	36.4	32.9	34.6	38.4
Oklee	61	23	58.2	16.6		43.6	38.4	41.0	
Granger	62	27	56.8	15.4		41.7	40.0	40.8	
Ulen	62	24	58.6	16.3		42.1	38.3	40.2	
Express	64	20	57.0	16.0		42.9	35.9	39.4	
Bigg Red	63	25	59.7	15.9		39.9	38.2	39.0	
AP603CL	68	27	57.1	16.4		39.2	34.3	36.8	
Saturn	68	24	51.6	17.8		35.2	28.8	32.0	
Polaris	69	24	53.7	16.4		35.4	28.2	31.8	
Kelby	61	23	58.2	16.6			38.6		
Fireball	63	20	55.6	17.8			33.7		
Baker	69	25	54.8	16.4			31.5		
Rush	60	23	58.2	16.7	33.2		31.0		
Trial Mean	63	25	56.8	16.2	46.5	41.8	35.9	--	--
C.V. %	1.8	7.1	3.7	2.4	8.5	10.7	7.3	--	--
LSD .05	2	2	2.9	0.5	5.5	6.2	3.6	--	--
LSD .01	2	3	3.9	0.7	7.3	8.2	4.8	--	--

Planting Date: April 12, 2006 Harvest Date: July 26, 2006 Previous Crop: soybean
 Seeding Rate: 1.1 million live seeds / acre (approx. 1.6 bu/A).

Note: The 2005 and 2006 trials sustained late season heat and moisture stress.

2006 HRSW Variety Trial - Continuously Cropped - No-till Mandan

Cooperator: USDA-ARS, Mandan

Variety	Test	Grain	---- Grain Yield ----			Average Yield		
	Weight	Protein	2004	2005	2006	2 yr	3 yr	
	Lbs/bu	%	----- Bushels per acre -----					
Briggs	55.0	16.3	45.7	66.3	27.9	47.1	46.6	
Mercury	54.5	16.3	43.5	57.6	28.1	42.8	43.1	
Reeder	53.3	16.6	45.0	49.3	33.0	41.2	42.4	
Oxen	53.9	16.0	41.7	49.3	31.6	40.4	40.9	
Fryer	54.2	16.5		64.8	30.0	47.4		
Glenn	55.1	16.5		63.7	30.2	47.0		
Granger	55.6	16.5		63.3	30.4	46.8		
Howard	53.4	16.2		61.9	30.4	46.2		
Steele-ND	54.0	16.4		62.0	29.6	45.8		
Traverse	51.7	15.6			31.6			
Trial Mean	54.1	16.2	40.1	58.7	29.7	--	--	
C.V. %	1.2	2.9	9.4	7.3	9.3	--	--	
LSD .05	1.1	NS	6.4	7.2	4.7	--	--	
LSD .01	1.5	NS	8.6	9.8	6.3	--	--	

Planting Date: April 25, 2006

Harvest Date: August 4, 2006

Seeding Rate: 1.1 million live seeds / acre (approx. 1.6 bu/A).

Previous Crop: 2003 = Barley, 2004 = Lentil, 2005 = hrww.

NS = no statistical difference between varieties.

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

2006 HRSW Variety Trial - Continuously Cropped - No-till New Leipzig

Cooperator: Daryl Birdsall, New Leipzig

Variety	Test	Plant	Grain	---- Grain Yield ----			Average Yield		
	Weight	Height	Protein	2004	2005	2006	2 yr	3 yr	
	lbs/bu	inches	%	----- Bushels per acre -----					
Oxen	55.6	16	16.6	26.6	36.9	18.1	27.5	27.2	
Briggs	55.6	19	17.0	31.0	28.8	14.9	21.8	24.9	
Steele-ND	54.8	20	17.1	29.7	27.8	15.3	21.6	24.3	
Reeder	53.4	19	17.2	22.7	33.1	16.0	24.6	23.9	
Mercury	53.7	17	17.2	23.0	31.3	13.4	22.4	22.6	
Glenn	53.8	20	17.0		28.0	15.0	21.5		
Howard	53.5	20	16.9		26.8	15.9	21.4		
Fryer	53.9	21	16.9		31.7	9.6	20.6		
Granger	54.9	19	17.4		30.2	10.1	20.2		
Traverse	52.1	19	16.6			10.2			
Trial Mean	53.9	19	17.0	26.8	30.4	13.9	--	--	
C.V. %	2.0	9.1	1.1	14.0	8.3	13.0	--	--	
LSD .05	1.6	3	0.3	5.4	3.7	2.6	--	--	
LSD .01	2.9	NS	0.5	7.2	4.9	4.8	--	--	

Planting Date: April 24, 2006

Harvest Date: July 31, 2006

Seeding Rate: 1.1 million live seeds / acre (approx. 1.6 bu/A).

Previous Crop: 2003 & 2004 = lentil, 2005 = hrww.

NS = no statistical difference between varieties.

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

2006 HRSW Variety Trial - Continuously Cropped - No-till Regent

Cooperators: August and Perry Kirschmann, Regent

Variety	Plant	Test	Grain	---- Grain Yield ----			Average Yield		
	Height	Weight	Protein	2003	2005	2006	2 yr	3 yr	
	inches	Lbs/bu	%	----- Bushels per acre -----					
Oxen	22	55.4	15.6	63.2	56.8	36.7	46.8	52.2	
Steele-ND	25	55.3	15.6	56.6	55.3	43.2	49.2	51.7	
Mercury	21	54.7	15.6	63.6	56.6	34.3	45.4	51.5	
Reeder	23	55.3	16.1	58.2	53.8	42.3	48.0	51.4	
Briggs	25	53.5	16.0	56.3	54.2	35.7	45.0	48.7	
Glenn	25	56.8	15.9		61.1	38.0	49.6		
Fryer	26	55.4	15.6		59.4	39.6	49.5		
Granger	25	54.5	15.9		59.4	36.4	47.9		
Howard	24	54.8	15.7		55.0	39.6	47.3		
Traverse	25	54.4	15.1			38.4			
Trial Mean	24	54.8	15.7	57.0	56.5	38.4	--	--	
C.V. %	6.1	2.8	1.7	7.8	6.1	7.3	--	--	
LSD .05	2	2.2	0.4	6.5	5.0	4.1	--	--	
LSD .01	3	3.0	0.5	8.8	6.7	5.5	--	--	

Planting Date: April 24, 2006

Harvest Date: July 31, 2006

Seeding Rate: 1.1 million live seeds / acre (approx. 1.6 bu/A).

Previous Crop: 2002 & 2004 = lentil, 2005 = hrsw.

2006 HRSW Variety Trial - Continuously Cropped - No-till Scranton

Cooperators: Neal and Justin Freitag, Scranton

Variety	Plant	Test	Grain	---- Grain Yield ----			Average Yield		
	Height	Weight	Protein	2004	2005	2006	2 yr	3 yr	
	inches	Lbs/bu	%	----- Bushels per acre -----					
Oxen	29	56.2	15.3	70.2	54.3	57.0	55.6	60.5	
Reeder	29	54.5	15.3	67.7	51.9	60.3	56.1	60.0	
Mercury	25	56.5	15.8	72.3	50.4	52.2	51.3	58.3	
Steele-ND	30	55.2	15.6	63.1	50.1	57.3	53.7	56.8	
Briggs	33	56.6	15.8	62.8	44.4	50.9	47.6	52.7	
Fryer	29	55.7	15.3		48.0	57.4	52.7		
Howard	31	55.0	15.5		50.7	52.8	51.8		
Glenn	33	58.4	15.8		47.3	52.9	50.1		
Granger	33	56.1	16.0		41.8	49.9	45.8		
Traverse	32	52.6	15.1			50.9			
Trial Mean	31	55.4	15.5	63.5	48.0	53.5	--	--	
C.V. %	5.7	1.9	1.8	5.2	9.1	5.7	--	--	
LSD .05	3	1.5	0.4	4.7	6.3	4.4	--	--	
LSD .01	3	2.1	0.5	6.3	8.5	5.9	--	--	

Planting Date: April 24, 2006

Harvest Date: August 2, 2006

Seeding Rate: 1.1 million live seeds / acre (approx. 1.6 bu/A).

Previous Crop: 2003 & 2004 = lentil, 2005 = hrww.

2006 HRSW Variety Trial - Continuously Cropped - No-till Selfridge

Cooperator: Nick Vollmuth, Selfridge

Variety	Plant	Test	Grain	---- Grain Yield ----			<u>Average Yield</u>		
	Height	Weight	Protein	2004	2005	2006	2 yr	3 yr	
	inches	Lbs/bu	%	----- Bushels per acre -----					
Mercury	23	56.4	16.5	61.2	48.3	31.6	40.0	47.0	
Briggs	26	55.3	16.6	61.3	51.0	26.7	38.8	46.3	
Oxen	23	56.7	16.7	61.0	45.8	25.8	35.8	44.2	
Steele-ND	26	55.3	16.5	58.9	43.3	29.3	36.3	43.8	
Reeder	21	55.6	17.0	53.1	44.3	26.6	35.4	41.3	
Fryer	24	57.7	16.3		52.6	25.3	39.0		
Granger	25	56.9	16.7		50.1	24.1	37.1		
Howard	25	55.3	16.4		45.6	25.7	35.6		
Glenn	22	56.7	17.0		46.0	23.7	34.8		
Traverse	21	53.7	16.0			22.6			
Trial Mean	23	55.7	16.5	55.0	46.8	26.0	--	--	
C.V. %	10.4	1.5	2.9	8.2	7.1	10.5	--	--	
LSD .05	4	1.2	NS	6.6	4.8	3.9	--	--	
LSD .01	NS	1.6	NS	NS	6.5	5.3	--	--	

NS = No statistical difference between varieties.

Planting Date: April 25, 2006

Harvest Date: August 4, 2006

Seeding Rate: 1.1 million live seeds / acre (approx. 1.6 bu/A).

Previous Crop: 2003 & 2004 = lentil, 2005 = hrww.

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

HRSW in the West River Region

Combined Means

Variety	Days to Head	Plant Height	Seeds / Pound	Test Weight	Grain Protein	---- Grain Yield ----			Average Yield	
						2004	2005	2006	2 yr	3 yr
		inches	#	Lbs/bu	%	----- Bushels per acre -----				
Oxen	60	24	18,647	56.7	15.8	43.9	46.4	36.4	41.4	42.2
Steele-ND	62	27	19,044	55.6	16.2	42.8	45.2	36.2	40.7	41.3
Reeder	64	25	21,206	55.8	16.2	42.8	44.4	37.1	40.8	41.4
Mercury	60	22	16,743	56.2	16.1	42.1	46.0	34.1	40.0	40.7
Briggs	61	27	17,957	56.2	15.9	41.9	45.8	34.1	40.0	40.6
Fryer	61	26	18,123	56.5	15.8		49.2	34.7	42.0	
Granger	60	27	16,175	56.5	15.9		47.9	33.4	40.6	
Glenn	59	26	19,517	56.8	16.1		47.1	33.7	40.4	
Howard	62	26	19,544	55.4	15.8			34.8		
Traverse	60	26	17,437	54.1	15.3			33.2		
# of Locations*	2	1	1	8	8	10	9	8	17	27

* Locations:2006 = Hettinger, Dickinson, Scranton, Regent, New Leipzig, Selfridge, Mandan & Ralph, SD.
 2005 = Hettinger, Scranton, Regent, New Leipzig, Selfridge, Mandan, Hannover, Glen Ullin & Ralph, SD.
 2004 = Hettinger, Dickinson, Scranton, Selfridge, New Leipzig, Mandan, Hannover, Glen Ullin, Ralph & Bison, SD.