

2004 Hard Red Spring Wheat – Continuously Cropped - No-till Hettinger

Variety	Days to Head	Plant Height	Test Weight	Grain Protein	---- Grain Yield ----			Average Yield	
					2002	2003	2004	2 yr	3 yr
		inches	Lbs/bu	%	----- Bushels per acre -----				
Reeder	77	26	61.5	16.2	22.7	49.8	49.3	49.6	40.6
Keene	76	29	61.2	16.2	24.9	47.6	46.3	48.4	40.6
Steele-ND	77	29	62.4	16.2	23.1	48.1	49.8	49.0	40.3
Mercury	73	23	61.3	15.6	22.1	52.5	46.4	49.4	40.3
Outlook	78	25	60.0	16.0	23.4	48.4	49.0	48.7	40.3
Oxen	74	27	60.0	16.5	24.3	54.7	40.4	47.6	39.8
Briggs	72	25	60.2	15.9	23.3	45.7	49.4	47.6	39.5
AC Superb	77	27	61.2	16.6	23.3	48.0	46.8	47.4	39.4
Norpro	78	23	61.2	15.6	23.1	46.0	49.0	47.5	39.4
Ingot	71	27	61.5	16.6	21.6	51.9	44.0	48.0	39.2
Parshall	76	30	60.9	16.1	23.3	46.2	47.9	47.0	39.1
Knudson	76	25	60.7	15.6	20.9	49.0	44.9	47.0	38.3
Granite	79	25	59.2	16.3	22.0	45.1	46.2	45.6	37.8
Hanna	76	30	61.3	16.0	23.8	41.7	47.8	44.8	37.8
Alsen	74	25	60.9	16.4	23.9	46.9	41.7	44.3	37.5
AC Amizon	80	30	61.2	15.6	19.3	46.7	46.0	46.4	37.3
Gunner	80	28	61.6	16.4	21.0	43.6	46.1	44.8	36.9
Russ	76	27	60.2	15.8	21.2	44.9	44.2	44.6	36.8
Dapps	77	29	60.3	18.0	18.2	42.9	46.5	44.7	35.9
Trooper	72	22	61.3	15.2			48.1		
Freyr	76	28	60.8	15.7			46.6		
Laser	72	26	59.1	16.5			41.7		
Banton	70	23	61.9	16.4			39.7		
ES54	79	27	58.5	16.7			39.5		
Trial Mean	76	27	60.9	16.1	21.8	47.8	46.5	--	--
C.V. %	1.5	7.0	1.4	2.7	13.7	9.8	8.5	--	--
LSD .05	2	3	1.2	0.6	NS	6.6	5.5	--	--
LSD .01	2	4	1.5	0.8	NS	8.7	7.3	--	--

Planting Date: April 5, 2004 Harvest Date: August 6, 2004

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

Previous Crop: 2001 = barley, 2002 & 2003 = soybean.

Notes: The 2002 trial sustained severe heat and moisture stress. The 2003 trial sustained late season heat and moisture stress. The 2004 trial sustained hard frosts on May 13 (18° F), May 14 (16° F) and on June 18 (25° F).

NS = no statistical difference between varieties.

2004 HRSW - Continuously Cropped - No-till

Mandan

Variety	Plant Height	Test Weight	Grain Protein	---- Grain Yield ----			Average Yield	
	inches	Lbs/bu	%	2001	2003	2004	2 yr	3 yr
				----- Bushels per acre -----				
Mercury	25	56.0	16.0	52.3	42.3	43.5	42.9	46.0
Reeder	29	57.3	16.2	48.6	40.7	45.0	42.8	44.8
Oxen	29	55.9	15.9	45.0	45.8	41.7	43.8	44.2
Parshall	34	57.6	16.3	45.6	40.5	42.0	41.2	42.7
Alsen	28	57.2	16.1	42.9	38.0	41.5	39.8	40.8
Keene	35	57.7	16.2	40.6	39.2	39.8	39.5	39.9
Briggs	31	55.6	16.3		40.8	45.7	43.2	
Dapps	35	56.6	17.2		37.5	33.3	35.4	
Butte 86	34	56.5	16.2			38.7		
Granite	27	56.9	18.0			32.2		
Trial Mean	30	56.9	16.4	45.9	40.5	40.1	--	--
C.V. %	8.7	1.5	2.6	8.3	7.3	9.4	--	--
LSD .05	5	1.4	0.7	6.4	4.3	6.4	--	--
LSD .01	6	NS	1.0	8.7	NS	8.6	--	--

Planting Date: April 13, 2004

Harvest Date: August 13, 2004

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

Previous Crop: 2000 – 2003 = Barley.

NS = no statistical difference between varieties.

Notes: The 2004 trial sustained moderate moisture stress.

2004 HRSW - Continuously Cropped - No-till

New Leipzig

Variety	Plant Height	Test Weight	Grain Protein	---- Grain Yield ----			Average Yield		
	inches	Lbs/bu	%	2002	2003	2004	2 yr	3 yr	
				----- Bushels per acre -----					
Keene	26	58.8	16.8	13.6	35.3	32.6	34.0	27.2	
Parshall	24	59.1	17.3	12.0	37.3	26.6	32.0	25.3	
Briggs	24	59.2	17.0	13.0	31.8	31.0	31.4	25.3	
Oxen	21	58.5	16.7	12.7	36.1	26.6	31.4	25.1	
Reeder	22	58.0	16.7	16.7	35.2	22.7	29.0	24.9	
Alsen	23	59.6	17.2	11.1	30.0	26.1	28.0	22.4	
Dapps	26	57.2	17.9	13.2	29.3	22.3	25.8	21.6	
Mercury	20	58.5	16.8	11.0	30.1	23.0	26.6	21.4	
Steele ND	24	59.4	17.0		30.9	29.7	30.3		
Granite	21	55.5	17.3			24.4			
Trial Mean	24	58.5	17.1	12.9	32.9	26.8	--	--	
C.V. %	4.6	2.7	1.2	16.2	10.8	14.0	--	--	
LSD .05	2	2.3	0.3	NS	5.2	5.4	--	--	
LSD .01	2	NS	0.4	NS	7.0	7.2	--	--	

Planting Date: April 14, 2004

Harvest Date: August 11, 2004

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

Previous Crop: 2001 – 2003 = Lentil.

NS = no statistical difference between varieties.

Notes: The 2002 trial sustained severe heat and moisture stress. The 2003 and 2004 trials sustained moderate moisture stress.

2004 HRSW - Continuously Cropped - No-till**Scranton**

Variety	Plant Height	Test Weight	Grain Protein	---- Grain Yield ----			Average Yield	
	inches	Lbs/bu	%	2002	2003	2004	2 yr	3 yr
				----- Bushels per acre -----				
Mercury	29	60.4	14.2	40.6	43.2	72.3	57.8	52.0
Oxen	32	59.5	14.8	41.0	42.9	70.2	56.6	51.4
Reeder	34	59.1	15.3	44.2	40.8	67.7	54.2	50.9
Alsen	34	59.9	15.4	39.3	43.7	66.4	55.0	49.8
Briggs	35	60.0	15.3	39.3	36.3	62.8	49.6	46.1
Keene	41	59.9	15.0	41.1	35.9	60.6	48.2	45.9
Parshall	37	59.5	15.6	38.6	34.3	62.8	48.6	45.2
Dapps	39	58.5	15.9	39.6	32.8	57.7	45.2	43.4
Steele ND	34	59.0	15.0		41.6	63.1	52.4	
Butte 86	38	59.6	14.9			60.3		
Granite	32	60.6	16.3			57.9		
Trial Mean	35	59.7	15.2	40.0	39.1	63.5	--	--
C.V. %	3.8	1.2	2.5	5.3	11.3	5.2	--	--
LSD .05	2	1.0	0.5	3.1	6.4	4.7	--	--
LSD .01	3	1.4	0.7	4.1	8.7	6.3	--	--

Planting Date: April 14, 2004

Harvest Date: August 16, 2004

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

Previous Crop: 2001 – 2003 = Lentil.

2004 HRSW - Continuously Cropped - No-till**Selfridge**

Variety	Plant Height	Test Weight	Grain Protein	--- Grain Yield ---			Average Yield	
	inches	Lbs/bu	%	2002	2003	2004	2 yr	3 yr
	----- Bushels per acre -----							
Oxen	33	57.2	14.8	29.3	30.8	60.1	45.4	40.1
Mercury	31	57.6	14.7	23.8	32.0	61.2	46.6	39.0
Briggs	37	59.8	15.6	24.4	30.8	61.3	46.0	38.8
Alsen	38	58.4	15.8	22.9	28.9	54.0	41.4	35.3
Reeder	36	56.9	15.7	25.4	26.8	53.1	40.0	35.1
Keene	42	58.3	16.0	22.8	30.4	52.0	41.2	35.1
Dapps	42	58.0	17.0	16.8	28.1	52.9	40.5	32.6
Parshall	40	58.1	16.5	18.6	28.1	50.9	39.5	32.5
Steele-ND	40	58.6	15.3		25.5	58.9	42.2	
Granite	33	59.3	16.8			50.4		
Trial Mean	38	58.4	15.9	23.3	29.0	55.0	--	--
C.V. %	5.2	2.0	1.6	16.9	10.4	8.2	--	--
LSD .05	3	1.7	0.4	5.7	4.4	6.6	--	--
LSD .01	4	NS	0.5	7.7	6.0	8.8	--	--

Planting Date: April 13, 2004

Harvest Date: August 11, 2004

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

Previous Crop: 2001 – 2003 = Lentil.

NS = no statistical difference between varieties.