

**2008 Barley Variety Trial - Continuously Cropped - No-till****New Leipzig**

Cooperator: Daryl Birdsall, New Leipzig

Variety	Plant	Test	%	Grain	---- Grain Yield ----			Average Yield	
	Height	Weight	Plump	Protein	2006	2007	2008	2 yr	3 yr
	inches	lbs/bu	>6/64	%	----- Bushels per acre -----				
<b>2 Row Types</b>									
Rawson	27	46.4	92	12.2	30.3	59.0	30.4	44.7	39.9
Pinnacle	27	45.3	86	12.9	26.4	63.9	28.6	46.2	39.6
Conlon	28	46.9	93	13.5	25.7	45.9	25.6	35.8	32.4
<b>6 Row Types</b>									
Stellar-ND	26	42.4	70	13.3	24.7	66.8	33.3	50.0	41.6
Robust	28	45.4	74	14.2	24.9	58.0	28.8	43.4	37.2
Trial Mean	27	45.5	84	13.3	28.2	64.4	30.0	--	--
C.V. %	2.6	4.4	7.4	1.8	9.8	4.7	9.8	--	--
LSD .05	1	NS	9	0.4	4.0	4.4	4.4	--	--
LSD .01	1	NS	13	0.5	5.5	6.0	6.1	--	--

NS = no statistical difference between varieties.

Planting Date: April 23, 2008

Harvest Date: August 8, 2008

Seeding Rate: 750,000 live seeds / acre (approx. 1.4 bu/A).

Previous Crop: 2005 &amp; 2006 = hrww, 2007 = hrsw.

Note: The 2006 &amp; 2008 trials sustained severe moisture stress.

**2008 Barley Variety Trial - Continuously Cropped - No-till****Regent**

Cooperators: August and Perry Kirschmann, Regent

Variety	Plant	Test	%	Grain	---- Grain Yield ----			Average Yield	
	Height	Weight	Plump	Protein	2006	2007	2008	2 yr	3 yr
	inches	lbs/bu	>6/64	%	----- Bushels per acre -----				
<b>2 Row Types</b>									
Rawson	26	40.7	72	12.3	61.0	86.0	23.8	54.9	56.9
Pinnacle	24	39.0	53	13.1	54.3	84.8	20.5	52.6	53.2
Conlon	28	44.4	77	13.4	57.5	84.2	12.3	48.2	51.3
<b>6 Row Types</b>									
Stellar-ND	23	40.0	34	12.6	53.8	69.0	13.9	41.4	45.6
Robust	26	33.7	29	13.0	48.3	64.5	9.6	37.0	40.8
Trial Mean	25	40.5	50	13.1	57.4	80.0	16.1	--	--
C.V. %	9.8	--	14.3	7.1	5.5	4.5	27.4	--	--
LSD .05	NS	--	11	NS	4.6	5.3	6.6	--	--
LSD .01	NS	--	15	NS	6.2	7.2	9.2	--	--

NS = no statistical difference between varieties.

Planting Date: April 21, 2008

Harvest Date: August 8, 2008

Seeding Rate: 750,000 live seeds / acre (approx. 1.4 bu/A).

Previous Crop: 2005 = hrww, 2006 &amp; 2007 = hrsw.

Note: The 2008 trial sustained severe heat and moisture stress.

SDSU Spring Barley Variety Trial - Perkins County (Bison), 2008.

Variety	Height Inches	Lodging 0-9*	Test Wt Lb/Bu	Yield Bu/A	Protein %
<b>TWO ROW</b>					
CONLON +	32	0	**	13.4	11.5
ESLICK	26	0	43.4	<b>60.8</b>	12.3
PINNACLE	31	0	46.6	38.5	10.9
RAWSON +	33	0	**	10.1	11.3
<b>SIX ROW</b>					
LACEY	31	0	48.7	19.0	11.9
TRADITION	33	0	48.3	41.3	11.5
STELLAR-ND	31	0	44.6	36.7	10.9
DRUMMOND	34	0	45.7	21.0	11.9
RASMUSSEN	31	0	46.3	34.2	11.2
ROBUST	34	0	45.9	23.6	12.2
M122	33	0	46.0	35.0	11.1
Average	31	0.0	45.8	32.9	11.6
LSD (P=.05)	2.2	0.0	2.5	8.8	--
CV	7.0	0.0	3.2	15.8	--

+ Colon and Rawson yields were adversely affected by wildlife damage.

\* 0 = no lodging, 9 = 100% lodged.

\*\* Not enough sample for a test weight.

Planted: April 17, 2008

Herbicide: Starane NXT (20 oz/A)

Harvested: August 21, 2008

Additional Nitrogen: 50 Lb/A

Previous crop: Wheat, no-till planted.

**2008 Barley Variety Trial - Continuously Cropped - No-till** **Scranton**

Cooperators: Neal and Justin Freitag, Scranton

Variety	Plant Height	Test Weight	% Plump	Grain Protein	Grain Yield			Average Yield	
	inches	lbs/bu	>6/64	%	2006	2007	2008	2 yr	3 yr
<b>2 Row Types</b>									
Rawson	27	42.2	28	15.1	90.5	65.4	22.1	43.8	59.3
Pinnacle	24	43.8	51	16.8	85.5	59.6	20.6	40.1	55.2
Conlon	28	--	46	17.1	82.0	42.1	4.3	23.2	42.8
<b>6 Row Types</b>									
Stellar-ND	24	39.2	35	15.9	77.3	68.7	15.6	42.2	53.9
Robust	27	40.5	35	16.6	77.9	43.1	15.8	29.4	45.6
Trial Mean	26	41.7	39	16.5	85.2	61.1	17.2	--	--
C.V. %	4.1	3.0	52	3.8	6.0	5.4	28.5	--	--
LSD .05	2	1.9	NS	0.9	7.4	4.9	7.4	--	--
LSD .01	2	2.7	NS	1.3	10.1	6.6	10.2	--	--

NS = no statistical difference between varieties.

Planting Date: April 14, 2008

Harvest Date: August 5, 2008

Seeding Rate: 750,000 live seeds / acre (approx. 1.4 bu/A).

Previous Crop: 2005 & 2006 = hrww, 2007 = hrsw.

Note: The 2008 trial sustained severe heat and moisture stress.

**2008 Barley Variety Trial – Continuously Cropped - No-till**

**Hettinger**

Variety	Days to	Plant	Lodging	Test	%	Grain	----- Grain Yield -----			<u>Avg. Yield</u>	
	Head	Height		Weight	Plump	Protein	2006	2007	2008	2 yr	3 yr
	*	Inches	**	lbs/bu	>6/64	%	----- Bushels per acre -----				
<b>2 Row Types</b>											
Haxby	77	39	4.0	46.0	88	16.5	84.6	97.6	91.1	94.4	91.1
Bowman	73	41	4.5	47.8	86	14.6	80.3	95.1	88.1	91.6	87.8
Conlon	73	42	1.0	47.7	94	14.9	78.3	78.0	102.7	90.4	86.3
Eslick	78	39	3.8	45.6	77	14.0	77.4	90.7	86.3	88.5	84.8
Pinnacle	76	38	1.2	47.2	91	13.5	82.2	75.6	94.0	84.8	83.9
Rawson	74	42	3.0	45.7	87	13.8	75.5	90.9	80.6	85.8	82.3
AC Metcalfe	78	44	4.2	42.5	62	16.6	74.7	75.9	67.4	71.6	72.7
Harrington	80	41	4.0	40.2	31	16.9	59.7	74.3	58.7	66.5	64.2
Conrad	79	38	2.5	44.7	81	15.9		89.8	78.3	84.0	
Scarlett	81	35	3.0	44.6	81	14.5		76.0	89.5	82.8	
Hockett	78	38	4.2	43.2	58	16.2		82.8	75.1	79.0	
Geraldine	79	38	3.2	43.9	70	14.3		85.7	70.4	78.0	
CDC Copeland	80	42	2.8	42.4	69	15.3		76.1	73.9	75.0	
<b>6 Row Types</b>											
Tradition	76	40	4.8	45.7	82	14.6	73.9	87.1	88.0	87.6	83.0
Lacey	76	40	6.0	43.5	64	14.2	79.3	88.9	76.7	82.8	81.6
Legacy	78	42	7.8	40.5	50	14.8	77.1	78.0	69.0	73.5	74.7
Stellar-ND	75	40	8.5	40.0	60	14.9	74.0	86.4	60.4	73.4	73.6
Drummond	75	41	6.5	44.1	75	14.8	72.1	81.7	66.2	74.0	73.3
Robust	77	44	6.5	46.6	59	14.8	70.8	79.5	64.2	71.8	71.5
Rasmusson	76	39	6.8	43.5	41	15.0		86.9	63.7	75.3	
Trial Mean	76	40	4.7	44.2	70	15.0	76.0	81.8	76.5	--	--
C.V. %	0.9	3.5	47.1	2.5	12.8	4.6	9.7	7.6	8.4	--	--
LSD .05	1	2	3.1	1.5	13	1.0	10.4	8.8	9.0	--	--
LSD .01	1	3	4.1	2.0	17	1.3	13.8	11.7	12.0	--	--

\* Days to Head = the number of days from planting to head emergence from the boot.

\*\* Lodging: 0 = none, 9 = lying flat on ground.

Planting Date: April 14

Harvest Date: August 6

Seeding Rate: 750,000 live seeds / acre (approx. 1.4 bu/A).

Previous Crop: 2007 = hrsw, 2006 = field pea, 2005 = fallow.

Note: Hot and dry weather conditions in July caused low test weights.