

## 2011 WSU Variety Testing Barley Trial, St. John

Variety Name <i>*Hulless Italicized</i>	5 Year Average (Lbs/A)	3 Year Average (Lbs/A)	2 Year Average (Lbs/A)	2011						
				Yield (Lbs/A)	Test Wt (Lbs/Bu)	Protein (%)	Plump (%)	Plant Ht.	H.Date (Julian)	Lodging (%)
Champion	5200	5410	5300	<b>6610</b>	55.4	12.4	96	37	176	3
<b>07WA-649.7</b>				<b>6580</b>	54.6	12.5	94	38	176	8
<b>07WA-682.1</b>				<b>6400</b>	54.3	12.0	95	34	180	0
Spaulding	4850	5190	5110	<b>6290</b>	55.7	11.6	96	35	177	0
<b>05WA-316.K</b>		5280	5390	<b>6270</b>	53.1	12.1	97	34	179	0
<b>2004NZ163</b>			5120	<b>6210</b>	54.3	12.9	81	29	182	0
<b>07WA-601.6</b>				<b>6200</b>	53.1	11.8	97	34	181	0
<b>05WA-316.99</b>		5300	5210	<b>6190</b>	52.1	12.6	94	35	175	30
Lenetah		5350	5450	<b>6180</b>	54.2	12.2	97	34	179	0
Tetonia		5190	5090	<b>6090</b>	53.5	12.3	92	34	176	0
Baronesse	4900	5000	5100	<b>6020</b>	53.3	12.1	92	35	176	0
<b>07MB-390</b>			4830	<b>5970</b>	53.1	13.1	92	34	175	0
<b>07WA-658.8</b>				5890	53.2	13.2	86	36	175	32
<b>06WA-458.14</b>			5030	5830	54.2	12.6	92	34	177	25
<b>04WA-113.22</b>		5150	5110	5820	53.4	13.1	91	33	176	20
Newdale				5770	52.6	12.8	92	37	177	25
<b>07WA-677.1</b>				5760	53.9	12.5	86	34	176	0
<b>2Ab17271</b>				5730	52.9	12.4	91	35	184	17
AC Metcalfe	4310	4550	4740	5720	53.1	13.6	87	36	176	0
Bentley			4750	5680	52.2	12.3	93	40	178	0
Harrington	4530	4740	4790	5650	53.0	12.3	92	35	175	0
CDC Copeland		4770	4770	5620	52.0	13.0	91	39	180	3
<b>2004NZ170</b>		5270		5600	53.7	12.1	96	28	182	0
<b>07WA-630.19</b>				5590	54.1	13.1	95	33	176	10
CDC Meredith			4710	5530	50.6	12.3	91	34	179	17
<b>07WA-614.4</b>				5520	52.2	13.5	91	35	181	0
<b>2004NZ223</b>		5180		5470	54.7	12.7	96	31	184	0
WAS 4			4650	5450	<b>61.4</b>	13.3	82	36	174	13
<b>07WA-684.17</b>				5420	53.2	11.9	95	31	180	0
<b>2004NZ151</b>			4780	5320	54.6	14.0	78	27	180	0
<b>2Ab04-X01084-27</b>				5300	50.4	12.4	87	34	177	0
Clearwater		4360	4360	5230	60.1	12.5	81	35	175	0
<b>WAS 2</b>			4820	5200	53.8	13.7	95	34	176	33
Bob	4890	4790	4710	5050	53.9	13.3	94	35	174	13
Radiant	4780	4820	4600	4960	52.2	12.8	71	33	179	33
Meresse	3430	3740	3770	3970	59.5	13.8	76	30	177	10
C.V.	17	13	12	10	1.4	7.8	9	9	0	252
LSD	210	280	360	640	0.8	1.0	9	3	1	22
Average	4610	4950	4880	5720	53.9	12.7	90	34	178	8
Highest	5200	5410	5450	6610	61.4	14.0	97	40	184	33
Lowest	3430	3740	3770	3970	50.4	11.6	71	27	174	0

## St. John Spring Barley - Preliminary Data

1. Grain yield in the St. John spring barley trial averaged 5720 lbs/acre and was 1110 lbs/acre higher than the 5-year average. The St. John nursery was located about three miles east of St. John, WA (Mac Mills, cooperator).
2. This nursery was seeded on 20 April, 2011 following winter wheat. Seed was placed at a 90 lbs/acre seeding rate using a double-disc drill set on 6-inch spacing. Base applied fertilizer was 80 lbs. N/acre. Spring seeding and growing conditions were favorable.
3. Yields ranged from 3970 lbs/acre to 6610 lbs/acre. Yield values within the LSD range of the highest yield are shown in bold and 12 of the 36 entries are in this top group. Champion was the highest yielding variety and Champion was the highest yielding over 5 years at this location. All entries were 2-row and hulless entries are listed in italics. The Lattice design was 183% efficient compared to an RCBD for yield.
4. Test weights were very good with an average of 53.9 lbs/bu and ranged from 50.4 to 61.4 lbs/bu with the high values produced by hulless cultivars. Grain protein averaged 12.7% and grain plumpness averaged 93%. Plant height averaged 34 inches and lodging averaged 8%.