

## 2009 WSU SPRING BARLEY TRIAL SUMMARY

### Precipitation Zone= <16"

VARIETY NAME (6-row in italics)	YIELD (LBS/A)				TW (LBS/BU)				PROTEIN (%)			
	ALMIRA	BICKLETON	LAMONT	AVERAGE YIELD	ALMIRA	BICKLETON	LAMONT	AVERAGE TEST WEIGHT	ALMIRA	BICKLETON	LAMONT	AVERAGE PROTEIN
<b>CHAMPION</b>	3750	1940	3890	<b>3190</b>	49.6	50.2	49.9	49.9	13.9	12.9	13.9	13.6
<b>SPAULDING</b>	4490	2010	2950	<b>3150</b>	50.2	50.4	50.4	50.3	13.6	12.5	13.9	13.3
<b>05WA-316.K</b>	4070	1620	3730	<b>3140</b>	47.9	48.3	47.9	48.0	14.1	13.7	13.6	13.8
<b>04WA-113.22</b>	4360	1460	3550	<b>3120</b>	48.6	48.5	48.6	48.6	14.6	15.5	14.6	14.9
<b>LENETAH</b>	4520	1520	3300	<b>3110</b>	49.5	48.9	48.0	48.8	14.0	13.2	13.9	13.7
<b>BARONESSE</b>	4120	1550	3480	<b>3050</b>	48.0	47.7	48.6	48.1	14.1	13.8	14.3	14.1
<b>04WA-122.9</b>	3770	1840	3520	<b>3040</b>	48.6	48.3	49.6	48.8	13.8	14.0	13.6	13.8
<b>04WZN-286</b>	4030	1320	3740	<b>3030</b>	48.5	48.0	49.0	48.5	14.2	14.0	14.3	14.2
<b>KENT</b>	3650	1600	3820	<b>3020</b>	46.6	47.2	47.5	47.1	13.8	13.3	13.5	13.5
<b>RADIANT</b>	3740	1750	3540	<b>3010</b>	47.1	47.6	47.8	47.5	13.6	12.3	13.5	13.1
<b>RWA 1758</b>	3730	1570	3620	<b>2970</b>	48.1	48.8	48.6	48.5	13.9	13.8	13.8	13.8
<b>TETONIA</b>	3790	1540	3510	<b>2950</b>	48.0	47.8	47.8	47.9	14.0	13.5	13.6	13.7
<b>HAXBY</b>	3640	1900	3280	<b>2940</b>	50.0	50.1	49.4	49.8	13.9	13.3	13.8	13.7
<b>05WA-316.99</b>	4050	1790	2950	<b>2930</b>	47.8	47.1	47.0	47.3	13.6	13.6	13.7	13.6
<b>05WA-329.49</b>	3840	1590	3330	<b>2920</b>	49.1	48.7	48.6	48.8	14.1	13.8	14.2	14.0
<b>05WA-360.24</b>	3740	1220	3780	<b>2910</b>	47.9	48.0	49.6	48.5	14.3	15.0	14.0	14.4
<b>BOB</b>	4040	1480	3110	<b>2880</b>	48.6	48.4	49.5	48.8	14.3	14.0	14.1	14.1
<i>05WA-357.14</i>	4180	1600	2840	2870	49.3	47.9	48.0	48.4	13.8	13.4	14.4	13.9
<b>HARRINGTON</b>	3700	1530	3250	2830	46.7	47.6	47.8	47.4	14.2	13.6	13.6	13.8
<i>04WA-102.49</i>	3770	1360	3300	2810	47.5	47.9	47.1	47.5	14.2	14.1	14.2	14.2
<i>2004NZ160</i>	3860	1530	3050	2810	48.5	49.4	49.4	49.1	14.3	13.6	14.2	14.0
<i>05WA-325.18</i>	3630	1320	3380	2780	46.8	46.8	47.1	46.9	14.1	14.0	13.8	14.0
<i>04WZN-124</i>	3560	1540	3080	2730	46.7	47.9	46.4	47.0	14.7	14.8	15.1	14.9
<i>2004NZ223</i>	3600	1410	3180	2730	49.4	49.4	50.2	49.7	14.3	14.5	14.7	14.5
<i>2004NZ170</i>	3970	1270	2760	2670	47.2	48.5	47.0	47.6	14.1	14.3	14.3	14.2
<i>LEGACY</i>	3410	1680	2790	2630	45.2	47.5	47.6	46.8	13.8	12.7	13.5	13.3
<b>AC METCALFE</b>	3400	1390	2910	2570	47.9	47.6	48.5	48.0	14.3	14.4	14.1	14.3
<b>CDC COPELAND</b>	2970	1580	3020	2520	45.4	47.0	47.7	46.7	14.2	13.4	13.8	13.8
<i>2004NZ052</i>	3390	1350	2500	2410	47.8	48.9	47.4	48.0	14.1	14.3	14.6	14.3
<b>PINNACLE</b>	3290	1330	2480	2370	49.4	48.7	49.5	49.2	12.8	11.9	12.7	12.5
<i>05WA-328.8</i>	3340	1270	2420	2340	47.5	47.0	46.9	47.1	14.2	14.2	14.0	14.1
<b>Waxy Hulless</b>												
<b>CLEARWATER</b>	3580	1590	3520	<b>2900</b>	54.3	56.7	54.9	<b>55.3</b>	14.3	11.9	14.1	13.4
<b>WA 9820-98</b>	3230	1540	3640	2800	52.6	55.6	54.9	54.4	14.7	14.4	15.4	14.8
<b>03WA-204.22H</b>	3520	1250	2870	2550	54.8	56.6	56.2	<b>55.9</b>	14.8	15.7	14.8	15.1
<b>MERESSE</b>	2760	1680	2110	2180	52.5	55.4	53.3	53.7	15.7	15.9	15.9	<b>15.8</b>
<b>01WA-13860.5</b>	3020	1230	2140	2130	52.3	55.7	55.1	54.4	14.6	14.1	14.5	14.4
<b>STATISTICS</b>					<b>STATISTICS</b>				<b>STATISTICS</b>			
<b>CV (%)</b>	11	17	16	15	2.2	1.9	1.7	2.0	2.1	5.1	3.3	3.7
<b>LSD (0.10)</b>	580	370	700	320	1.5	1.3	1.1	0.7	0.4	1.0	0.6	0.4
<b>Average</b>	3710	1530	3180	2810	48.8	49.3	49.2	49.1	14.1	13.8	14.1	14.0
<b>Highest</b>	4520	2010	3890	3190	54.8	56.7	56.2	55.9	15.7	15.9	15.9	15.8
<b>Lowest</b>	2760	1220	2110	2130	45.2	46.8	46.4	46.7	12.8	11.9	12.7	12.5

- Spring barley grain yield across three locations in the <16" precipitation zone averaged 2810 lb/ac, 250 lb/ac lower than the 2008 average. These trials were analyzed as alpha lattice designs that overall helped to account for within-replication variation and reduced LSD and CV values. The highest value and other values within the LSD range are shown in bold for yield, test weight, and protein. There were 18 of the 36 cultivars within the top LSD group.
- Hulless cultivars are listed separately at the bottom of the table, and 'Clearwater' is included in the top LSD group. Clearwater also has the low phytic acid trait that reduces phosphorus pass-through and increases phosphorus adsorption in monogastrics. Hulless cultivars usually yield less than hulled cultivars because their loose hulls are not harvested with the grain.
- Test weight averaged 49.1 lb/BU across locations and entries, with a range of 46.7 lb/BU to 55.9 lb/BU. Test weights averaged 1.0 lb/BU higher than last year. Grain protein averaged 14.0%.