

## 2014 WSU Variety Testing Barley Trial, Farmington

Variety Name <i>*Hulless Italicized</i>	5 Year Average (Lbs/A)	3 Year Average (Lbs/A)	2 Year Average (Lbs/A)	2014						
				Yield (Lbs/A)	Test Wt (Lbs/Bu)	Protein (%)	Plant Ht	Head Date	Plump (%)	Lodging (%)
Lenetah	5210	5070	5680	<b>5650</b>	51.7	11.2	31	170	92	83
<b>10WA-106.18</b>				<b>5230</b>	52.1	11.7	34	170	78	42
Tradition			5730	<b>5160</b>	52.0	11.7	37	168	94	100
Lyon (05WA-316.K)	5550	5330	5600	5130	51.4	11.7	31	170	86	75
Champion	5480	5330	5750	5120	53.1	12.4	34	170	76	67
Muir (07WA-601.6)		5080	5330	5100	51.6	12.3	33	172	91	43
LCS-Overture			5320	5070	49.8	11.4	31	175	92	42
<b>09WA-228.13</b>			5650	5000	53.5	11.0	36	171	89	43
<b>2AB09X06F084-51</b>				4970	48.6	14.0	34	172	74	38
Bob	4930	4680	5180	4780	52.8	12.6	32	172	88	58
<b>10WA-105.33</b>				4740	51.5	13.2	32	170	85	50
CDC Copeland	4970	4730	5170	4690	50.7	11.3	37	172	90	67
<b>09WA-203.36</b>				4640	52.5	11.9	31	172	72	83
<b>X06G03-T148</b>				4620	52.6	12.4	36	173	92	50
RWA 1758				4590	50.8	13.3	33	171	76	33
LCS-Vespa (LCS LN09-0920)		4860	5100	4570	48.9	12.0	30	173	84	0
<b>09WA-203.21</b>				4550	51.1	13.0	34	171	71	58
<b>09WA-203.24</b>			5220	4510	51.8	12.2	32	172	80	25
LCS-Genie				4470	51.4	11.9	32	174	90	75
LCS-Odyssey				4470	51.2	10.0	29	174	96	58
Baronesse	5100	4640	5070	4460	50.4	12.5	32	172	83	33
<b>2008NZ006</b>				4360	49.4	13.6	37	169	66	75
Harrington	4630	4340	4660	4310	50.2	12.8	37	173	84	72
Salute				4300	51.6	14.0	31	171	87	33
<b>10WA-113.16</b>				4280	51.8	12.6	31	173	90	92
<b>2Ab04-X01084-27</b>		4520	4940	4270	49.2	12.9	32	173	71	35
<b>2Ab07-X04M219-46</b>				4210	45.9	13.2	35	177	71	67
LCS-Lamari				4190	52.0	13.1	31	169	76	50
<b>2008NZ004</b>			4810	4170	49.1	12.4	39	168	82	58
<b>2008NZ013</b>			4750	4130	49.8	12.2	34	169	85	67
CDC Meredith	4790	4370	4780	4100	49.8	12.8	37	172	85	92
<i>09WA-265.12</i>				4020	<b>56.4</b>	12.4	38	172	82	68
AC Metcalfe			4650	3950	52.5	13.6	39	172	86	67
<i>X05013-T1</i>			3950	3850	<b>56.5</b>	12.9	36	173	89	42
<b>10WA-113.12</b>				3630	51.5	11.7	34	173	88	92
<i>X07G30-T131</i>				3470	52.0	14.3	38	173	77	72
Meresse	3740	3360	3620	3380	51.9	14.6	34	172	76	35
<i>09WA-265.5</i>			4080	3360	<b>55.5</b>	12.7	33	175	68	50
<b>2Ab09-X06F058HL-31</b>				3310	48.6	15.3	33	174	80	92
<b>2Ab07-X031098-31</b>			4180	3230	50.2	12.9	35	177	81	33
<i>X06G07-T43</i>			3960	3220	49.3	12.3	30	178	81	20
<i>X0626-T229</i>				2730	<b>54.4</b>	15.0	32	170	69	83
<b>C.V. %</b>	9	9	9	11	4.0	8.6	7	1	13	52
<b>LSD (.10)</b>	200	240	320	510	2.2	1.1	2	1	11	31
<b>Average</b>	4930	4690	4920	4330	51.4	12.6	34	172	82	58
<b>Highest</b>	5550	5330	5750	5650	56.5	15.3	39	178	96	100
<b>Lowest</b>	3740	3360	3620	2730	45.9	10.0	29	168	66	0

### Farmington Spring Barley

1. Grain yield in the 2014 Farmington spring barley trial averaged 4330 lbs/acre, 600 lbs/acre less than the 5-year average for this location. The Farmington nursery was located about four miles south of Farmington, WA (B. Nelson, cooperator).
2. This nursery was seeded on 9 April, 2014 following winter wheat. Seed was placed at a 90#/acre seeding rate using a no-till plot drill set on 12-inch spacing using cross-slot openers. Base fertilizer was 80#N/acre and a spring soil test showed 124#/acre of soil available N. Spring seeding conditions and establishment were good and this trial was not as water limited as most other barley trials.
3. Yields ranged from 2730 lbs/acre to 5650 lbs/acre. Yield values within the LSD range of the highest yield are shown in bold and 3 of the 42 entries are in this top group. 'Lenetah' was the highest yielding variety and the new WSU variety 'Lyon' was the highest yielding variety among the entries with 5 years of results. Hulless entries are listed in italics.
4. Test weights averaged 51.4 lbs/bu and ranged from 45.9 to 56.5 lbs/bu with the highest values produced by hulless cultivars. Plump grain averaged 82% and ranged from 66% to 96%. Grain protein averaged 12.6% Plant height averaged 34 inches. Lodging occurred in all entries except one and averaged 58% with a range of 0% to 100%. Lodging was intensified by severe thunderstorm winds and rain in late June.