

## 2014 WSU Variety Testing Barley Trial, Walla Walla

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 (%)
09WA-203.21				3370	54.8	15.2	23	159	83
LCS-Lamari				3300	52.4	16.6	20	159	55
10WA-106.18				3250	54.7	15.2	23	158	84
Baronesse	4710	4380	4040	3220	54.2	17.0	23	159	92
10WA-105.33				3190	54.5	16.8	21	159	88
2Ab04-X01084-27		4460	4240	3140	52.9	16.5	20	160	88
09WA-203.24			4540	3130	55.0	14.9	22	158	85
LCS-Vespa (LCS LN09-0920)		5270	4860	2980	54.3	16.7	22	156	93
Lenetah	4870	4670	4100	2980	55.2	15.8	22	160	94
2008NZ006				2980	52.7	15.5	24	156	84
Bob	4540	4470	4170	2960	54.8	16.8	23	158	91
Lyon (05WA-316.K)	4560	4440	3950	2950	53.7	16.7	23	158	91
Muir (07WA-601.6)		4530	4180	2910	54.3	17.5	20	159	87
<i>09WA-265.12</i>				2850	62.0	16.3	24	159	56
Champion	4800	4670	4120	2810	55.5	14.6	23	158	90
2008NZ013			4080	2700	51.8	16.5	24	157	78
Salute				2640	54.8	17.0	22	159	93
LCS-Odyssey				2620	54.0	17.2	20	161	85
X06G03-T148				2580	55.0	17.3	23	160	88
LCS-Overture			4580	2570	55.0	16.3	19	161	91
LCS-Genie				2570	55.1	16.2	18	161	89
09WA-203.36				2430	55.9	14.8	23	160	83
2Ab07-X031098-31			4080	2380	54.8	16.7	20	159	89
2Ab09-X06F058HL-31				2370	61.7	17.7	18	160	70
<i>X0626-T229</i>				2370	60.3	18.4	23	157	48
2Ab07-X04M219-46				2370	54.5	16.0	23	158	94
Tradition			3890	2350	51.6	15.8	24	160	77
09WA-228.13			3810	2350	55.4	15.4	22	159	88
RWA 1758				2340	54.6	18.0	19	160	89
<i>X06G07-T43</i>			3450	2310	60.9	18.0	17	161	52
10WA-113.12				2300	54.1	16.4	20	160	94
<i>Meresse</i>	4060	3750	3180	2300	59.9	18.4	21	160	65
2008NZ004			4050	2260	52.3	16.2	21	157	81
10WA-113.16				2210	54.3	16.8	19	161	89
<i>09WA-265.5</i>			3370	2180	62.0	16.7	22	159	48
<i>X07G30-T131</i>				2150	60.8	18.2	24	160	69
CDC Meredith	4160	4300	3820	2090	53.6	17.1	20	161	85
CDC Copeland	4570	4490	3910	2060	52.3	16.3	21	158	86
AC Metcalfe			3660	2050	54.7	17.1	23	159	89
<i>X05013-T1</i>			3700	2030	61.5	18.7	20	160	63
Harrington	4360	4090	3620	1880	54.4	16.2	19	159	90
2AB09X06F084-51				1780	54.3	18.2	23	160	86
C.V. %	13	11	12	18	1.1	4.1	11	1	8
LSD (.10)	240	250	330	480	0.6	0.7	2	2	7
Average	4510	4460	3970	2580	55.5	16.7	21	159	81
Highest	4870	5270	4860	3370	62.0	18.7	24	161	94
Lowest	4060	3750	3180	1780	51.6	14.6	17	156	48

### Walla Walla Spring Barley

1. Grain yield in the 2014 Walla Walla spring barley trial averaged 2580 lbs/acre, much less than the 5 year average at this location. The Walla Walla nursery was located one mile east of Waitsburg, WA (G. Smith, cooperator).
2. This nursery was seeded on 19 March, 2014 following spring wheat. Seed was placed at a 90#/acre seeding rate using a plot drill set on 7-inch spacing. Base applied fertilizer was 110#N/acre. Soil test at this site showed luxuriant level of N available. Spring seeding and establishment conditions were favorable, but high N rates creating excessive vegetative growth and water stress after heading reduced yields. Because of these unusual trial conditions, these results are not included in rainfall zone and multi-year summaries.
3. Yields ranged from 1780 lbs/acre to 3370 lbs/acre. Yield values within the LSD range of the highest yield are shown in bold and 13 of the 42 entries are in this top group. 'LCS-Lamari' was the highest yielding named variety and 'Lenetah' was the highest yielding over 5 years at this location. Hulless entries are listed in italics.
4. Test weights averaged 55.5 lbs/bu and ranged from 51.6 to 62.0 lbs/bu with the highest values produced by hulless cultivars. Plump seed averaged 81% and ranged from 48% to 94%. Protein averaged 16.7%, showing the high N at this site. Plant height averaged 21 inches, reflecting drought conditions. Lodging was not a factor.