

2012 WSU Variety Testing Barley Trial, Pullman

Variety Name <i>*Hulless Italicized</i>	5 Year Average (Lbs/A)	3 Year Average (Lbs/A)	2 Year Average (Lbs/A)	2012				
				Yield (Lbs/A)	Test Wt (Lbs/Bu)	Protein (%)	Plump (%)	Head Date
CDC Meredith		4780	4740	4430	51.1	10.5	92	188
Lenetah	5140	5080	4290	4180	53.3	9.1	88	188
LSC LN09-0920				4150	51.7	10.2	86	189
07WA-601.6			4540	4140	53.1	9.1	90	188
2Ab04-X01084-27			4420	4030	48.9	11.4	76	189
Champion	4990	4810	4690	4010	54.1	9.3	85	187
08WA-109.17				3970	51.2	10.9	84	189
07WA-682.1			4600	3960	52.4	10.4	79	191
CDC Copeland	4420	4370	4150	3920	50.6	10.2	88	191
07WA-614.4			4830	3910	50.2	9.0	88	191
Bob	4930	4910	4370	3880	53.9	9.4	93	189
05WA-316.K		4850	4450	3770	51.5	9.4	90	189
05WA-316.99		4370	3960	3760	50.8	9.9	87	189
Baronesse	4820	4710	4310	3750	51.4	9.7	75	188
08WA-140.11				3720	52.2	10.0	84	189
06WA-412.4		4830		3700	53.3	9.6	90	191
08WA-137.6				3680	49.9	9.7	76	189
2004NZ163	5040	5070	4430	3670	53.9	10.2	75	192
Radiant	4640	4560	4550	3630	51.8	9.2	75	191
2004NZ151	5200	5100	4670	3620	51.0	10.7	74	191
08WA-107.8				3610	52.5	10.6	85	188
<i>X05056-T211</i>				3560	59.8	11.2	58	187
Harrington	4500	4350	4150	3520	52.2	9.9	91	191
X05013-T267				3460	51.8	10.6	92	189
2004NZ170			4350	3440	51.8	10.8	73	191
Bentley		4330	4080	3170	50.1	10.9	77	187
<i>09WA-265.14</i>				3060	61.7	12.1	75	190
<i>Meresse</i>	4210	4260	3530	3060	57.8	12.2	49	188
<i>2Ab09-X06F058HL-23</i>				2880	59.3	11.4	69	192
08WA-118.12				2810	49.5	10.5	80	188
C.V. %	11	12	13	15	2.3	12.1	12	1
LSD (.10)	240	340	410	600	1.3	1.3	11	1
Average	4790	4690	4370	3680	52.8	10.3	81	189
Highest	5200	5100	4830	4430	61.7	12.2	93	192
Lowest	4210	4260	3530	2810	48.9	9.0	49	187

Pullman Spring Barley

1. Grain yield in the Pullman spring barley trial averaged 3680 lbs/acre, 1110 lbs/acre less than the 5 year average at this location. The Pullman trial was located about two miles south of Pullman, WA on the WSU Spillman Agronomy farm. This trial was managed by the WSU barley breeding program.
2. This trial was seeded on 9 May, 2012 following winter wheat. Seed was placed at a 90 lbs/acre seeding rate using a plot drill equipped with double-disc openers set on 6-inch spacing. Base applied fertilizer was 100 lbs N/acre and a soil test showed 72 lbs N/acre available. Spring seeding and establishment conditions were favorable. However, there was a high degree of variability across this trial that included differences in moisture, wireworm, and soil type. Although this variability resulted in high CVs, the analysis showed significant differences among entries and the results are reported but should be used with limited emphasis.
3. Yields ranged from 2810 lbs/acre to 4430 lbs/acre. Yield values within the LSD range of the highest yield are shown in bold and 11 of the 30 entries are in this top group. 'CDC Meredith' was the highest yielding named variety and 'Lenetah' was the highest yielding over 5 years at this location. All entries were 2-row and hulless entries are listed in italics.
4. Test weights averaged 52.8 lbs/bu and ranged from 48.9 to 61.7 lbs/bu with the highest values produced by hulless cultivars. Grain protein averaged 10.3% and plumpness averaged 81%.