

2011 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)	2011						
				Yield (Lbs/A)	Test Wt (Lbs/Bu)	Protein (%)	Plump (%)	Plant Ht.	H.Date (Julian)	Lodging (%)
07WA-658.8				5080	50.4	14.5	45	30	175	67
2004NZ151			5550	4980	49.3	14.6	40	26	177	83
WAS 2			5840	4940	50.0	15.0	54	28	167	83
07WA-684.17				4820	48.7	14.9	37	28	169	70
04WA-113.22		5610	4960	4750	50.3	14.4	51	30	169	67
07WA-649.7				4740	48.8	13.3	46	31	168	87
07WA-677.1				4680	48.0	13.9	27	29	169	90
Lenetah		5790	5170	4660	49.8	14.7	50	31	175	93
Champion	4780	5750	5000	4620	50.1	14.5	43	30	170	95
Tetonia		5880	5290	4620	49.2	14.4	36	31	174	86
07WA-614.4				4570	50.0	14.4	39	31	176	47
05WA-316.K		5420	4730	4550	48.6	15.1	37	29	173	82
07WA-630.19				4440	51.2	14.4	58	30	172	72
Harrington	4080	5250	4760	4330	49.3	14.4	50	29	176	62
Spaulding	4670	5700	4950	4310	50.5	12.8	46	29	173	87
07MB-390			4670	4270	48.8	14.6	48	30	175	70
2004NZ223		5310		4230	50.0	14.0	42	27	177	88
06WA-458.14			4870	4230	48.9	15.5	32	28	175	98
2004NZ170		5560		4180	49.6	14.9	36	28	175	72
07WA-601.6				4180	47.3	15.1	39	29	167	77
Baronesse	4600	5570	5200	4170	49.3	14.7	50	29	171	70
Radiant	4440	5340	4550	4170	48.2	14.5	28	29	175	86
2004NZ163			5080	4170	50.6	15.1	38	27	177	90
07WA-682.1				4150	50.3	14.7	43	29	177	90
CDC Copeland		5440	4680	4110	48.3	14.5	43	33	176	65
Bob	4530	5260	4650	4040	50.1	15.2	56	31	175	85
05WA-316.99		5480	4630	4010	48.1	14.0	42	31	173	90
2Ab04-X01084-27				3860	47.0	14.7	48	29	176	78
Clearwater		4790	4250	3840	54.3	15.5	33	32	171	77
WAS 4			4110	3710	51.5	15.4	24	29	169	99
Meresse	3510	4760	4530	3630	54.9	16.3	30	28	169	90
Newdale				3620	48.7	14.6	31	31	176	70
AC Metcalfe	4000	4970	4140	3610	49.7	14.9	44	30	174	96
2Ab17271				3430	50.4	14.0	48	29	179	73
Bentley			3840	3320	46.6	14.7	40	32	176	81
CDC Meredith			3950	3150	47.9	14.7	45	28	178	98
C.V.	19	15	17	15	2.1	3.6	18	7	1	22
LSD	230	340	470	690	1.1	0.6	8	2	2	19
Average	4330	5410	4760	4230	49.6	14.6	42	29	173	81
Highest	4780	5880	5840	5080	54.9	16.3	58	33	179	99
Lowest	3510	4760	3840	3150	46.6	12.8	24	26	167	47

Walla Walla Spring Barley - Preliminary Data

1. Grain yield in the Walla Walla spring barley trial averaged 5720 lbs/acre and was 100 lbs/acre lower than the 5-year average. The Walla Walla nursery was located about one mile east of Waitsburg, WA (Glen Smith, cooperator).
2. This nursery was seeded on 25 March, 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 112 lbs. N/acre. Spring seeding and growing conditions were favorable.
3. Yields ranged from 3150 lbs/acre to 5080 lbs/acre. Yield values within the LSD range of the highest yield are shown in bold and 13 of the 36 entries are in this top group. Lenetah was the highest yielding named 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 100% efficient compared to an RCBD for yield.
4. Test weights were adequate with an average of 49.6 lbs/bu and ranged from 46.6 to 54.9 lbs/bu with the high values produced by hulless cultivars. Grain protein averaged 14.6% and grain plumpness averaged 42%. Plant height averaged 29 inches and lodging averaged 81%. High N fertility at this site caused early lodging, reduced grain filling, and high protein.