

2010 WSU EXTENSION SPRING BARLEY NURSERY AT ALMIRA, WA.

Variety Name <i>*Hulless Italicized</i>	5 YEAR AVERAGE (LBS/A)	3 YEAR AVERAGE (LBS/A)	2 YEAR AVERAGE (LBS/A)	2010					
				YIELD (LBS/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
04WA-113.22		4560	5040) +8\$	49.4	14.4	17	33	172
05WA-316.99			4600) % \$	46.4	13.7	10	35	174
LENETAH		4300	4700	4880	47.6	14.8	10	36	171
06WA-458.14				4880	45.9	14.9	10	35	174
CHAMPION	4130	4200	4290	4830	47.2	15.0	20	36	171
06WA-412.4				4810	47.6	15.1	3	33	174
2004NZ163				4710	45.6	16.0	0	32	178
05WA-329.49			4260	4680	48.4	15.7	37	36	170
RADIANT	3910	4050	4210	4680	45.7	15.1	3	36	174
TETONIA			4180	4570	47.0	14.8	3	37	178
WAS 2				4480	48.9	14.9	27	35	171
HAXBY		3950	4050	4470	49.3	14.7	3	38	170
06WA-406.28				4430	44.7	14.2	2	36	174
BOB	4110	4050	4230	4410	48.9	14.9	35	36	172
HARRINGTON	3700	3670	4050	4400	44.7	14.7	0	37	175
<i>WAS 4</i>				4390	52.4	16.4	20	34	172
BARONESSE	3820	3910	4240	4350	45.2	15.4	7	35	174
06WA-426.42				4200	44.1	14.8	20	35	173
SPAULDING	3990	3930	4330	4170	46.4	14.0	0	36	175
06WA-423.21				4120	44.0	14.5	23	36	171
06WA-426.49				4060	41.4	14.8	13	37	175
06WA-406.9				4050	42.3	15.7	3	38	174
PINNACLE			3670	4050	47.9	13.5	0	40	170
2004NZ151				4030	43.5	14.9	0	31	177
06WA-421.23				4020	43.1	15.3	30	38	175
BENTLEY				3980	43.7	15.5	0	41	173
05WA-316.K			4010	3950	43.2	14.3	27	32	171
<i>MERESSE</i>	3130	3160	3340	3930	55.1	17.1	40	34	172
WAS 1				3860	44.0	15.6	37	36	172
04WNZ-124		3680	3700	3840	42.3	16.4	3	33	178
<i>CLEARWATER</i>			3690	3800	55.4	16.2	13	37	175
CDC COPELAND		3170	3360	3760	43.9	14.9	7	41	178
AC METCALFE	3340	3320	3500	3610	44.4	14.8	17	39	174
<i>WAS 3</i>		3170	3310	3600	52.9	17.5	0	37	176
07MB-390				3580	41.1	15.2	10	36	175
CDC MEREDITH				3230	39.7	15.6	3	37	176
C.V. %	10	10	11	11	3.9	4.6	123	4	1
LSD '@ .10'	220	300	430	660	2.5	1.0	21	2	1
Average	3770	3798	4040	4270	46.2	15.2	13	36	174
Highest	4130	4560	5040	5720	55.4	17.5	40	41	178
Lowest	3130	3160	3310	3230	39.7	13.5	0	31	170

Almira Spring Barley – Preliminary Data

1. Grain yield in the Almira spring barley trial averaged 4270 pounds/acre, 500 pounds/acre higher than the 5-year average for this location. The Almira nursery was located 7 miles north of Almira, WA (Dan McKay, cooperator).
2. This nursery was seeded on 7 April, 2010 following spring wheat. Seed was placed at a 70#/acre seeding rate using a double disk plot drill set on 6-inch spacing. Base applied fertilizer was 35#N/acre and a pre-fertilization soil sample showed an additional 119#N residual. Spring seeding conditions were good, spring rains ran out before grain filling that resulted in some yield loss, low test weights, and high protein. The Alpha Lattice RCB experimental design improved variation allocation during statistical analysis and the CV by 72% compared to a standard RCB design.
3. Yields ranged from 3230 lb/ac to 5720 lb/ac. Yield values within the LSD range of the highest yield are shown in bold and 2 of the 36 entries are in this group. All entries were 2-row and hulless entries are listed in italic.
4. Test weights averaged of 46.2 lb/bu and ranged from 39.7 to 55.4 lb/bu with the high values produced by hulless cultivars. Grain protein averaged 15.2% and the average plant height was 36 inches.