

2009 WSU EXTENSION SPRING BARLEY NURSERY AT ALMIRA, WA.

Variety Name <i>*6-Row Italicized</i>	2009			2009						
	5 YEAR AVERAGE (LBS/A)	3 YEAR AVERAGE (LBS/A)	2 YEAR AVERAGE (LBS/A)	YIELD (LBS/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLUMP (%)	THIN (%)	PLANT HEAD HT	DATE
LENETAH			4010	4520	49.5	14.0	90	3	27	176
SPaulding	3860	3530	3800	4490	50.2	13.6	86	5	27	174
<i>04WA-113.22</i>			3990	4360	48.6	14.6	93	2	24	174
<i>05WA-357.14</i>				4180	49.3	13.8	92	2	26	173
BARONESSE	3670	3260	3700	4120	48.0	14.1	88	3	23	174
<i>05WA-316.K</i>				4070	47.9	14.1	91	3	25	173
<i>05WA-316.99</i>				4050	47.8	13.6	89	3	23	174
BOB	3940	3620	3860	4040	48.6	14.3	90	3	25	174
<i>04WNZ-286</i>		3380	3750	4030	48.5	14.2	88	3	25	174
<i>2004NZ170</i>				3970	47.2	14.1	86	3	23	178
<i>2004NZ160</i>				3860	48.5	14.3	89	3	22	176
<i>05WA-329.49</i>				3840	49.1	14.1	91	2	26	174
TETONIA				3790	48.0	14.0	85	3	22	176
<i>04WA-122.9</i>			3710	3770	48.6	13.8	88	3	25	174
<i>04WA-102.49</i>			3530	3770	47.5	14.2	87	3	21	177
CHAMPION	3920	3570	3890	3750	49.6	13.9	85	4	26	174
RADIANT	3680	3340	3730	3740	47.1	13.6	70	6	24	175
<i>05WA-360.24</i>				3740	47.9	14.3	92	2	25	175
RWA 1758			3440	3730	48.1	13.9	89	3	22	174
HARRINGTON	3500	3130	3310	3700	46.7	14.2	78	7	25	175
KENT		3050	3530	3650	46.6	13.8	87	4	22	177
HAXBY		3470	3690	3640	50.0	13.9	82	4	25	173
<i>05WA-325.18</i>				3630	46.8	14.1	88	3	24	175
<i>2004NZ223</i>				3600	49.4	14.3	88	3	23	178
CLEARWATER(Hulless)				3580	54.3	14.3	54	18	24	174
<i>04WNZ-124</i>			3600	3560	46.7	14.7	81	4	21	178
<i>03WA-204.22H (Hulless)</i>				3520	54.8	14.8	64	8	23	173
<i>LEGACY</i>	3220	2950	3240	3410	45.2	13.8	63	12	32	171
AC METCALFE	3230	2790	3170	3400	47.9	14.3	93	2	25	174
<i>2004NZ052</i>				3390	47.8	14.1	92	2	22	175
<i>05WA-328.8</i>				3340	47.5	14.2	87	2	32	171
PINNACLE				3290	49.4	12.8	96	1	26	171
<i>WA 9820-98 (Hulless)</i>		2760	3160	3230	52.6	14.7	42	19	22	177
<i>01WA-13860.5 (Hulless)</i>		2760	2960	3020	52.3	14.6	50	15	24	174
CDC COPELAND			2880	2970	45.4	14.2	83	5	28	177
MERESSE (Hulless)		2570	2780	2760	52.5	15.7	57	15	23	172
C.V. %	9	10	9	11	2.2	2.1	10	103	7	0
LSD '@ .10'	200	280	320	580	1.5	0.4	12	7	2	1
Average	3630	3160	3510	3710	48.8	14.1	82	5	25	175
Highest	3940	3620	4010	4520	54.8	15.7	96	19	32	178
Lowest	3220	2570	2780	2760	45.2	12.8	42	1	21	171

1. Grain yield in the Almira spring barley trial averaged 3710 lb/ac, just 2% higher than the average 5-year yield for this location. The Almira nursery was located about 10 miles north of Almira, WA (Dan McKay, cooperator).
2. This nursery was seeded on 20 April, 2009 following summer fallow. Seed was placed at a 70#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was applied in the fall as 80#N and 10#S per acre, and a spring soil test showed more than adequate available nutrients. Spring seeding conditions were rated 7 on a 1-10 scale and spring rain made the outlook good for the spring crop. The alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 50% compared to an RCBD design.
3. Yields ranged from 2760 lb/ac to 4520 lb/ac, with a CV of 11%. Yield values within the LSD range of the highest yield are shown in bold and 10 of the 36 entries are in this group. Six-row entries are listed in italicized print and hulless cultivars are noted.
4. Test weights were good with an average of 48.8 lb/bu. Plump grain (>6/64" screen) averaged 82%. Grain protein was high averaging 14.1% and is higher than desired due to high available N at this site. The average plant height was only 25 inches.