

2009 WSU EXTENSION SPRING BARLEY NURSERY AT ST. JOHN, WA.

Variety Name <i>*6-Row Italicized</i>				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
CHAMPION	5060	5130	5260	5620	50.3	12.7	94	2	25	174
<i>05WA-316.99</i>				5490	48.0	13.1	95	1	24	174
TETONIA				5390	49.7	13.1	92	2	23	176
SPAULDING	4580	4680	4550	5340	52.1	12.9	96	1	25	174
<i>05WA-329.49</i>				5330	49.6	12.8	98	1	23	174
HAXBY		4920	4970	5320	51.2	12.7	83	8	25	173
RADIANT	4780	4890	5010	5260	48.8	12.8	87	3	23	174
<i>04WA-113.22</i>			4840	5210	49.5	13.2	89	3	22	173
LENETAH			5100	5160	50.1	12.9	95	2	24	175
<i>05WA-316.K</i>				5070	47.1	12.9	84	7	23	173
<i>04WNZ-286</i>		4840	5030	5060	50.9	13.6	96	1	22	174
<i>2004NZ160</i>				4980	50.8	13.2	98	1	21	175
BOB	4900	5000	5050	4960	49.2	13.2	87	5	24	174
<i>05WA-325.18</i>				4950	48.8	13.8	97	1	23	175
<i>2004NZ170</i>				4940	48.6	13.5	97	1	21	176
<i>2004NZ223</i>				4900	50.8	13.9	97	1	22	177
<i>04WA-122.9</i>			4650	4880	50.4	13.5	96	1	22	174
<i>04WNZ-124</i>			5060	4870	48.4	13.6	91	2	23	177
<i>04WA-102.49</i>			4390	4820	48.3	13.4	95	2	21	176
BARONESSE	4740	4760	4810	4820	47.6	13.3	88	5	24	174
CDC COPELAND			4730	4770	48.6	13.2	96	2	27	176
PINNACLE				4750	48.8	12.2	94	2	26	172
RWA 1758			4730	4690	49.3	13.2	96	1	22	174
KENT		4300	4250	4670	47.5	12.5	94	2	23	176
HARRINGTON	4260	4350	4480	4640	48.7	13.7	89	3	23	174
<i>05WA-357.14</i>				4510	49.6	13.3	94	2	24	174
<i>05WA-360.24</i>				4420	49.5	13.6	92	2	23	174
<i>2004NZ052</i>				4370	49.2	13.8	98	0	22	175
CLEARWATER(Hulless)				4360	54.5	13.2	81	5	24	174
<i>05WA-328.8</i>				4250	47.2	13.5	94	1	27	171
AC METCALFE	4030	4020	4000	4190	49.4	13.4	96	1	25	175
<i>WA 9820-98 (Hulless)</i>		3620	3790	4070	53.4	13.8	49	17	22	175
<i>LEGACY</i>	4000	4110	4030	3990	47.1	12.5	93	1	29	170
<i>03WA-204.22H (Hulless)</i>				3950	55.7	13.6	79	5	23	174
<i>01WA-13860.5 (Hulless)</i>		3460	3340	3800	55.3	13.8	76	6	22	175
<i>MERESSE (Hulless)</i>		3210	3150	3680	53.8	14.4	75	7	23	172
C.V. %	10	9	10	8	2.7	3.9	8	113	7	1
LSD '@ .10'	280	320	440	530	1.8	0.7	10	5	2	1
Average	4540	4380	4530	4760	49.9	13.3	90	3	23	174
Highest	5060	5130	5260	5620	55.7	14.4	98	17	29	177
Lowest	4000	3210	3150	3680	47.1	12.2	49	0	21	170

1. Grain yield in the St. John spring barley trial averaged 4760 lb/ac, 5% higher than the average 5-year yield for this location. The St. John nursery was located about 3 miles east of St. John, WA (Mac Mills, cooperator).
2. This nursery was seeded on 20 April, 2009 following winter wheat. Seed was placed at a 90#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was applied at 70#N and 10#S per acre. Spring seeding conditions were good with moisture rated 7 out of 10 and spring rain made the early outlook good for the spring crop. For grain yield, the alpha lattice experimental design improved variation allocation during statistical analysis and the CV by 51% compared to an RCBD design.
3. Yields ranged from 3680 lb/ac to 5620 lb/ac, with a CV of 8%. Yield values within the LSD range of the highest yield are shown in bold and 9 of the 36 entries are in this group. Six-row barley entries are listed in italicized print and hulless cultivars are noted.
4. Test weights were good with an average of 49.9 lb/bu. Plump grain (>6/64" screen) averaged 90%. Grain protein was high and averaged 13.3%. The average plant height was 23 inches. No lodging occurred.