

2009 WSU EXTENSION SPRING BARLEY NURSERY AT PULLMAN, 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			5230	5700	53.0	12.5	97	1	30	176
SPAULDING	5060	5180	4800	5480	54.2	12.0	98	1	28	174
RWA 1758			5280	5320	52.1	12.8	97	1	26	173
HARRINGTON	4540	4770	4740	5130	52.3	12.5	97	2	30	173
04WA-113.22			5070	5120	51.8	13.2	96	1	27	172
04WNZ-124			5020	5120	50.7	13.7	93	2	24	178
05WA-316.K				5120	51.0	12.3	96	1	24	171
2004NZ170				5090	51.3	11.5	97	1	22	180
CHAMPION	5380	5320	5270	5030	53.1	12.7	98	1	27	171
05WA-316.99				4980	51.2	11.8	97	2	26	173
KENT		4950	5020	4950	51.1	11.6	96	2	26	179
BARONESSE	4920	4920	5000	4940	51.1	12.2	94	3	25	173
CDC COPELAND			4500	4900	52.6	12.1	97	1	33	175
05WA-360.24				4890	51.3	12.5	95	1	27	173
RADIANT	4650	4680	4750	4880	50.7	11.5	90	3	27	174
BOB	4830	4830	4960	4780	51.2	12.9	92	2	26	173
04WA-102.49			4820	4770	51.3	12.9	97	1	23	177
04WA-122.9			4670	4760	52.6	12.6	96	3	27	173
2004NZ223				4750	52.9	12.8	97	1	24	180
HAXBY		4860	4580	4720	54.0	11.8	97	1	27	171
05WA-357.14				4670	51.7	12.2	98	2	26	173
05WA-325.18				4630	51.0	13.2	97	3	28	175
05WA-329.49				4510	52.0	13.1	98	1	27	174
03WA-204.22H (Hulless)				4490	58.9	13.3	90	3	27	173
TETONIA				4480	52.0	10.8	96	2	24	175
04WNZ-286		4500	4330	4400	52.4	12.5	97	2	24	174
PINNACLE				4340	52.1	11.4	99	1	28	172
CLEARWATER(Hulless)				4330	57.3	12.2	89	2	28	174
AC METCALFE	4350	4470	4350	4280	51.7	12.6	97	1	28	173
LEGACY	4450	4520	4360	4220	49.1	12.0	97	1	30	171
<i>05WA-328.8</i>				4180	49.0	13.4	97	1	30	169
2004NZ052				4050	52.4	13.0	98	1	24	176
WA 9820-98 (Hulless)		4210	4120	3890	57.1	12.9	71	5	25	174
MERESSE (Hulless)		4130	4150	3720	54.9	14.6	89	2	24	171
01WA-13860.5 (Hulless)		4030	3900	3690	57.1	13.2	88	3	25	174
2004NZ160				3530	52.4	11.5	99	0	21	179
C.V. %	8	9	10	10	1.3	3.9	2	70	5	1
LSD <i>'@.10'</i>	240	330	430	650	0.9	0.7	3	2	2	1
Average	4770	4670	4710	4660	52.5	12.5	95	2	26	174
Highest	5380	5320	5280	5700	58.9	14.6	99	5	33	180
Lowest	4350	4030	3900	3530	49.0	10.8	71	0	21	169

1. Grain yield in the Pullman spring barley trial averaged 4660 lb/ac about 110 lb/ac lower than the 5-year average. The Pullman nursery was located about 2 miles south of Pullman, WA on the Spillman WSU Agronomy Farm (Ryan Davis, farm manager).
2. This nursery was seeded on 21 April, 2009 following dry pea. Seed was placed at a 90#/acre seeding rate using a double disc plot drill fitted with seven openers set on 6-inch spacing. Spring seeding conditions were good. Base fertilizer was 90#N, 20#P, and 20#S per acre applied in the spring and a soil test shows adequate nutrients. The alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 12% compared to an RCBD design.
3. Yields ranged from 3530 lb/ac to 5700 lb/ac, with a CV of 10%. Yield values within the LSD range of the highest yield are shown in bold and 8 of the 36 entries are in this group. Six-row entries are listed in italicized print and the hulless cultivars are designated.
4. Test weights were good with an average of 52.5 lb/bu and ranged from 49.0 lb/bu to 58.9 lb/bu. Plump grain (>6/64" screen), was high and averaged 95%, indicating good grain filling. The hulless cultivars produce the highest test weights and lower plump percentages due to lack of hulls. Grain protein averaged 12.5%. The average plant height was 26 inches.