

## 2009 WSU EXTENSION SPRING BARLEY NURSERY AT BICKLETON, WA.

Variety Name *6-Row Italicized	5 YEAR AVERAGE (LBS/A)	3 YEAR AVERAGE (LBS/A)	2 YEAR AVERAGE (LBS/A)	2009					
				YIELD (LBS/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLUMP (%)	THIN (%)	PLANT HT
SPAULDING	--	--	2310	<b>2010</b>	50.4	12.5	63	16	15
CHAMPION	--	--	2810	<b>1940</b>	50.2	12.9	66	12	17
HAXBY	--	--	2480	<b>1900</b>	50.1	13.3	60	15	16
04WA-122.9	--	--	2440	<b>1840</b>	48.3	14.0	60	13	16
05WA-316.99	--	--		<b>1790</b>	47.1	13.6	73	8	16
RADIANT	--	--	2460	<b>1750</b>	47.6	12.3	54	22	15
MERESSE (Hulless)	--	--	2100	<b>1680</b>	55.4	15.9	46	19	13
<i>LEGACY</i>	--	--	2210	<b>1680</b>	47.5	12.7	72	8	19
05WA-316.K	--	--		1620	48.3	13.7	72	9	13
05WA-357.14	--	--		1600	47.9	13.4	68	11	16
KENT	--	--	2410	1600	47.2	13.3	60	13	13
CLEARWATER(Hulless)	--	--		1590	<b>56.7</b>	11.9	40	27	16
05WA-329.49	--	--		1590	48.7	13.8	70	11	15
CDC COPELAND	--	--	2100	1580	47.0	13.4	71	10	17
RWA 1758	--	--	2340	1570	48.8	13.8	70	11	14
BARONESSE	--	--	2340	1550	47.7	13.8	53	18	14
04WNZ-124	--	--	2290	1540	47.9	14.8	62	11	15
TETONIA	--	--		1540	47.8	13.5	59	16	14
WA 9820-98 (Hulless)	--	--	1930	1540	<b>55.6</b>	14.4	23	37	14
2004NZ160	--	--		1530	49.4	13.6	79	7	13
HARRINGTON	--	--	2100	1530	47.6	13.6	72	9	14
LENETAH	--	--	2440	1520	48.9	13.2	72	7	16
BOB	--	--	2460	1480	48.4	14.0	68	11	15
04WA-113.22	--	--	2280	1460	48.5	15.5	62	12	15
2004NZ223	--	--		1410	49.4	14.5	70	10	16
AC METCALFE	--	--	2040	1390	47.6	14.4	70	10	16
04WA-102.49	--	--	2100	1360	47.9	14.1	68	11	14
2004NZ052	--	--		1350	48.9	14.3	75	8	14
PINNACLE	--	--		1330	48.7	11.9	79	8	16
04WNZ-286	--	--	2170	1320	48.0	14.0	63	13	13
05WA-325.18	--	--		1320	46.8	14.0	72	8	15
<i>05WA-328.8</i>	--	--		1270	47.0	14.2	68	8	17
2004NZ170	--	--		1270	48.5	14.3	61	14	14
03WA-204.22H (Hulless)	--	--		1250	<b>56.6</b>	15.7	30	34	15
01WA-13860.5 (Hulless)	--	--	1660	1230	<b>55.7</b>	14.1	24	40	14
05WA-360.24	--	--		1220	48.0	15.0	71	10	15
C.V. %	--	--	14	17	1.9	5.1	15	41	8
LSD '@.10'	--	--	280	370	1.3	1.0	13	8	2
Average	--	--	2260	1530	49.3	13.8	62	14	15
Highest	--	--	2810	2010	56.7	15.9	79	40	19
Lowest	--	--	1660	1220	46.8	11.9	23	7	13

1. Grain yield in the Bickleton spring barley trial averaged 1530 lb/ac, about 1330 lb/ac lower than the 2008 average yield for this location. The Bickleton nursery was located about 3 miles east of Bickleton, WA (Steve Matsen, cooperater).
2. This nursery was seeded on 21 April, 2009 following spring wheat. Seed was placed at a 70#/acre seeding rate using a no-till plot drill fitted with Cross-slot openers set on 10-inch spacing. Spring seeding conditions were good with moisture rated 7 out of 10. Base fertilizer was 30#N, 5#P, and 5#S per acre applied in the spring. The alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 69% compared to an RCBD design.
3. Yields ranged from 1220 lb/ac to 2010 lb/ac. The CV was larger than desirable, 17%, but is not uncommon in low yielding trials. 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 49.3 lb/bu and ranged from 46.8 lb/bu to 56.7 lb/bu. The hulless cultivars produce the highest test weights. Plump grain (>6/64" screen) averaged 62%. Grain protein averaged 13.8%. The average plant height was 15 inches.