

2009 WSU EXTENSION SPRING BARLEY NURSERY AT COLFAX, 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 HEAD HT	DATE
SPAULDING	--	--	--	5010	52.7	12.4	97	1	28	183
CHAMPION	--	--	--	4700	51.7	12.7	98	1	30	184
TETONIA	--	--	--	4660	51.3	12.7	98	1	27	186
<i>05WA-316.K</i>	--	--	--	4600	50.5	12.8	98	1	28	183
<i>05WA-316.99</i>	--	--	--	4570	50.5	12.8	98	1	31	183
LENETAH	--	--	--	4520	51.2	12.6	97	1	28	184
<i>04WA-113.22</i>	--	--	--	4420	50.7	13.5	98	1	29	183
RADIANT	--	--	--	4370	50.5	12.7	97	1	28	185
BARONESSE	--	--	--	4370	51.0	12.9	98	1	27	185
<i>04WNZ-124</i>	--	--	--	4360	49.8	12.9	98	1	25	188
RWA 1758	--	--	--	4350	51.0	12.8	98	1	26	184
KENT	--	--	--	4240	49.7	12.8	98	1	26	187
CDC COPELAND	--	--	--	4220	49.5	12.9	98	1	33	186
<i>2004NZ223</i>	--	--	--	4200	51.4	13.7	98	1	26	188
HARRINGTON	--	--	--	4190	50.4	13.0	98	1	31	185
HAXBY	--	--	--	4180	52.6	13.0	98	1	29	183
<i>04WA-102.49</i>	--	--	--	4160	50.5	13.1	98	1	25	187
<i>04WA-122.9</i>	--	--	--	4120	51.1	13.0	98	1	30	185
<i>2004NZ160</i>	--	--	--	4090	52.1	13.3	99	1	25	187
PINNACLE	--	--	--	4040	51.3	12.1	99	1	29	184
<i>05WA-325.18</i>	--	--	--	4040	49.7	13.4	98	1	29	185
<i>05WA-329.49</i>	--	--	--	4030	50.5	13.8	98	1	30	185
<i>05WA-357.14</i>	--	--	--	3990	51.2	13.1	98	1	30	185
<i>2004NZ170</i>	--	--	--	3990	49.9	13.1	98	1	25	187
BOB	--	--	--	3930	51.2	13.4	98	1	30	184
<i>04WNZ-286</i>	--	--	--	3930	51.6	13.4	98	1	29	185
<i>05WA-360.24</i>	--	--	--	3920	50.8	13.6	98	1	30	185
<i>WA 9820-98 (Hulless)</i>	--	--	--	3890	56.6	13.6	81	3	27	186
<i>2004NZ052</i>	--	--	--	3860	50.4	13.4	99	1	27	187
<i>CLEARWATER (Hulless)</i>	--	--	--	3820	57.1	13.3	90	2	32	185
<i>LEGACY</i>	--	--	--	3780	49.3	12.6	97	1	31	184
AC METCALFE	--	--	--	3650	50.3	13.5	98	1	31	186
<i>01WA-13860.5 (Hulless)</i>	--	--	--	3630	57.7	13.7	86	3	28	185
<i>05WA-328.8</i>	--	--	--	3430	48.6	13.7	98	1	31	183
<i>03WA-204.22H (Hulless)</i>	--	--	--	3100	58.0	14.2	93	2	29	185
<i>MERESSE (Hulless)</i>	--	--	--	3060	57.3	14.9	88	3	27	183
C.V. %	--	--	--	7	0.8	2.9	1	27	5	0
LSD '@.10'	--	--	--	420	0.6	0.5	1	0	2	1
Average	--	--	--	4100	51.7	13.2	97	1	29	185
Highest	--	--	--	5010	58.0	14.9	99	3	33	188
Lowest	--	--	--	3060	48.6	12.1	81	1	25	183

1. Grain yield in the Colfax spring barley trial averaged 4100 lb/ac. This is a new location for a spring barley trial. The Colfax nursery was located between Colfax and Palouse about 3 miles west of Palouse, WA (Craig Walters, cooperator).
2. This nursery was seeded on 4 May, 2009 following winter wheat. Seed was placed at a 90#/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 10 out of 10. Base fertilizer was 90#N, 16#P, and 16#S per acre applied in the spring. The alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 53% compared to an RCBD design.
3. Yields ranged from 3060 lb/ac to 5010 lb/ac, with a CV of 7%. Yield values within the LSD range of the highest yield are shown in bold and 4 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 51.7 lb/bu and ranged from 48.6 lb/bu to 58.0 lb/bu. The hulless cultivars produce the highest test weights. Plump grain (>6/64" screen) averaged 97%. Grain protein averaged 13.2%. The average plant height was 29 inches.