

2009 WSU EXTENSION SPRING BARLEY NURSERY AT LAMONT, WA.

Variety Name <i>*6-Row Italicized</i>	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
CHAMPION	--	--	--	3890	49.9	13.9	91	2	27	170
KENT	--	--	--	3820	47.5	13.5	91	3	24	173
05WA-360.24	--	--	--	3780	49.6	14.0	90	3	25	170
04WNZ-286	--	--	--	3740	49.0	14.3	88	4	23	171
05WA-316.K	--	--	--	3730	47.9	13.6	92	3	23	170
WA 9820-98 (<i>Hulless</i>)	--	--	--	3640	54.9	15.4	33	24	22	170
RWA 1758	--	--	--	3620	48.6	13.8	92	3	22	171
04WA-113.22	--	--	--	3550	48.6	14.6	87	4	23	171
RADIANT	--	--	--	3540	47.8	13.5	82	6	21	171
04WA-122.9	--	--	--	3520	49.6	13.6	92	3	25	171
CLEARWATER(<i>Hulless</i>)	--	--	--	3520	54.9	14.1	59	13	26	170
TETONIA	--	--	--	3510	47.8	13.6	81	6	22	173
BARONESSE	--	--	--	3480	48.6	14.3	93	3	24	171
05WA-325.18	--	--	--	3380	47.1	13.8	95	2	25	170
05WA-329.49	--	--	--	3330	48.6	14.2	87	4	23	171
04WA-102.49	--	--	--	3300	47.1	14.2	90	3	22	172
LENETAH	--	--	--	3300	48.0	13.9	83	6	26	172
HAXBY	--	--	--	3280	49.4	13.8	81	6	23	171
HARRINGTON	--	--	--	3250	47.8	13.6	91	3	24	172
2004NZ223	--	--	--	3180	50.2	14.7	93	2	22	174
BOB	--	--	--	3110	49.5	14.1	86	4	26	170
04WNZ-124	--	--	--	3080	46.4	15.1	85	4	20	174
2004NZ160	--	--	--	3050	49.4	14.2	92	2	20	172
CDC COPELAND	--	--	--	3020	47.7	13.8	90	4	25	172
SPAULDING	--	--	--	2950	50.4	13.9	85	5	23	172
05WA-316.99	--	--	--	2950	47.0	13.7	88	4	21	170
AC METCALFE	--	--	--	2910	48.5	14.1	90	4	24	170
03WA-204.22H (<i>Hulless</i>)	--	--	--	2870	56.2	14.8	59	14	21	171
05WA-357.14	--	--	--	2840	48.0	14.4	92	3	24	170
<i>LEGACY</i>	--	--	--	2790	47.6	13.5	85	5	23	167
2004NZ170	--	--	--	2760	47.0	14.3	80	6	21	173
2004NZ052	--	--	--	2500	47.4	14.6	83	5	20	172
PINNACLE	--	--	--	2480	49.5	12.7	93	3	23	167
<i>05WA-328.8</i>	--	--	--	2420	46.9	14.0	88	3	26	167
01WA-13860.5 (<i>Hulless</i>)	--	--	--	2140	55.1	14.5	48	16	24	170
MERESSE (<i>Hulless</i>)	--	--	--	2110	53.3	15.9	44	20	21	170
C.V. %	--	--	--	16	1.7	3.3	7	50	9	0
LSD '@.10'	--	--	--	700	1.1	0.6	7	4	3	1
Average	--	--	--	3180	49.2	14.1	83	6	23	171
Highest	--	--	--	3890	56.2	15.9	95	24	27	174
Lowest	--	--	--	2110	46.4	12.7	33	2	20	167

1. Grain yield in the Lamont spring barley trial averaged 3180 lb/ac. The Lamont nursery was located about 10 miles north of Lamont, WA (Gil White, cooperater). This nursery was seeded on 15 April, 2009 following winter wheat. Seed was placed at an 80#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was applied as 70#N and 10#S per acre, and a spring soil test showed more than adequate available nutrients. Spring seeding conditions were rated 8 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 153% compared to an RCBD design.
2. Yields ranged from 2110 lb/ac to 3890 lb/ac, with a CV of 16% indicating there was more variability than desirable within this trial. Yield values within the LSD range of the highest yield are shown in bold and 19 of the 36 entries are in this group. There was a lot of variability at this location and that contributes to a wide LSD. Six-row entries are listed in italicized print and hulless cultivars are noted.
3. Test weights were good with an average of 49.2 lb/bu. Plump grain (>6/64" screen) averaged 83%. 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 23 inches.