

2009 WSU EXTENSION SPRING BARLEY NURSERY AT DAYTON, 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 (%)	PLANT HT	HEAD DATE
BOB	3535	3756	3122	3340	49.2	13.2	20.7	165.5
05WA-325.18				3272	46.9	13.1	20.7	167.5
TETONIA				3257	48.2	12.7	19.7	168.5
LENETAH			3199	3235	49.3	13.2	21.0	167.5
05WA-329.49				3182	49.1	13.3	20.7	167.0
BARONESSE	3684	3662	3091	3170	48.3	13.3	20.7	167.5
04WNZ-286		3590	2948	3140	50.2	13.5	20.7	166.0
RADIANT	3816	3913	3191	3123	48.4	12.5	20.7	167.0
05WA-357.14				3123	49.7	13.9	20.7	166.5
KENT		3705	3096	3047	47.9	12.6	19.0	168.0
RWA 1758			3043	2992	49.6	13.3	19.3	166.5
CHAMPION	3826	3933	3139	2944	50.1	13.3	20.7	166.5
05WA-316.K				2938	48.7	13.5	21.3	165.0
HAXBY		3441	3113	2862	51.2	13.0	20.0	166.0
2004NZ160				2856	49.9	13.6	18.3	167.5
05WA-360.24				2855	48.1	13.4	20.3	166.5
2004NZ170				2765	48.0	13.0	19.0	168.0
2004NZ223				2747	51.0	13.3	19.3	168.5
04WNZ-124			2621	2700	48.5	14.2	20.7	169.0
04WA-113.22			2842	2642	49.5	13.9	19.7	167.0
04WA-122.9			2734	2611	49.0	13.3	21.7	167.0
04WA-102.49			2582	2566	48.9	13.6	19.3	168.0
SPAULDING	3469	3672	2771	2522	49.9	12.6	20.7	167.5
HARRINGTON	3206	3288	2584	2442	46.6	13.4	21.0	167.5
05WA-316.99				2408	47.2	13.1	20.3	167.0
03WA-204.22H (Hulless)				2266	55.5	14.2	18.3	166.5
2004NZ052				2253	49.5	14.0	17.3	168.5
<i>LEGACY</i>	2973	3053	2369	2196	48.0	12.6	24.7	167.0
01WA-13860.5 (Hulless)		2886	2198	2171	56.9	14.9	20.0	168.0
CDC COPELAND			2394	2154	45.8	13.5	23.0	169.0
AC METCALFE	2895	2873	2158	2113	47.9	13.7	22.0	167.5
WA 9820-98 (Hulless)		2790	2225	1979	56.6	14.5	18.3	168.0
MERESSE (Hulless)		2704	2130	1964	56.0	15.1	20.7	165.5
CLEARWATER (Hulless)				1934	55.5	13.6	22.0	168.0
PINNACLE				1807	50.0	12.4	20.0	166.5
<i>05WA-328.8</i>				1637	48.2	13.7	21.3	166.0
C.V. %	11	9	11	11	1.4	2.9	6.2	0.5
LSD '@ .10'	201	220	273	402	0.9	0.5	1.7	1.0
Average	3426	3376	2740	2645	49.8	13.4	20.4	167.2
Highest	3826	3933	3199	3340	56.9	15.1	24.7	169.0
Lowest	2895	2704	2130	1637	45.8	12.4	17.3	165.0

Dayton Spring Barley – Preliminary Data

1. Grain yield in the Dayton spring Barley trial averaged 2645 pounds/acre, 23 % lower than the average 5-year yield for this location. The low yields at this site indicate below average conditions that were evident from emergence through harvest. Soil compaction is suspected to have contributed to limiting yield potential. The Dayton nursery was located about 6 miles North of Dayton, WA (Jay Penner, cooperator).

2. This nursery was seeded on 16 April, 2009 following winter wheat. Seed was placed at a 90#/acre seeding rate using a double-disk plot drill set on 6-inch spacing. Base fertilizer was applied at 137#N, 10#P and 15#S per acre, and a spring soil test showed adequate available nutrients. Spring seeding conditions were good with moisture rated 6 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 12% compared to a RCBD design. The CV was 11.

3. Yields ranged from 1637 lb/ac to 3340 lb/ac. Yield values within the LSD range of the highest yield are shown in bold and 12 of the 36 entries are in this group. Six-row entries are listed in italic and the hulless cultivars are designated.

4. Average test weights were good at 49.8 lb/bu. Grain protein was high and averaged 13.4. The average plant height was 20.4 inches, showing the limited plant growth at this site. No lodging occurred.