2010 WSU EXTENSION SPRING BARLEY NURSERY AT DAYTON, WA.

Variety Name *Hulless Italicized	5 YEAR AVERAGE (LBS/A)	3 YEAR AVERAGE (LBS/A)	2 YEAR AVERAGE (LBS/A)	2010 YIELD (LBS/A)	2010 TEST WT (LBS/BU)	2010 PROTEIN (%)	2010 PLANT HT	2010 HEAD DATE
2004NZ163				**5940**	50.4	12.5	30	172
06WA-412.4				**5790**	51.9	12.4	31	169
05WA-316.K			4220	**5510**	48.4	12.4	32	170
LENETAH		3940	4330	5430	51.7	12.7	34	169
04WNZ-124		3520	4000	5310	48.5	13.4	29	172
SPAULDING	4250	3590	3880	5230	51.8	11.8	34	168
05WA-316.99			3820	5230	48.5	11.8	34	169
CHAMPION	4470	3820	4070	5190	52.0	12.2	35	168
2004NZ151				5180	46.9	12.5	27	172
05WA-329.49			4130	5080	52.6	12.2	35	167
04WA-113.22		3580	3850	5050	50.9	12.3	32	168
WAS 2				4920	53.3	12.3	30	169
WAS 1				4840	48.9	12.9	33	168
06WA-458.14				4760	49.1	12.8	34	168
MERESSE	3270	3010	3360	4760	**60.9**	12.5	33	169
RADIANT	4350	3710	3930	4740	49.8	12.4	35	170
TETONIA			3970	4690	50.0	12.1	33	170
BARONESSE	4160	3580	3860	4550	48.7	12.9	32	170
06WA-426.49				4550	47.6	12.6	32	168
06WA-423.21				4540	48.4	12.6	33	169
PINNACLE			3140	4480	51.6	11.6	34	167
WAS 4				4470	59.3	11.9	31	170
06WA-426.42				4460	47.9	13.1	34	170
07MB-390				4450	48.7	12.9	34	169
BOB	4060	3530	3840	4350	51.1	13.1	34	168
06WA-406.28				4300	45.4	13.2	34	170
CDC MEREDITH				4120	46.2	12.7	33	171
06WA-421.23				4040	46.2	13.1	35	168
06WA-406.9				3940	45.1	13.4	34	169
WAS 3		2780	3060	3940	59.7	12.6	34	168
AC METCALFE	3360	2720	2990	3860	48.6	13.0	34	168
HAXBY		3340	3330	3790	53.0	12.4	34	168
HARRINGTON	3570	2960	3080	3710	46.7	13.1	34	170
BENTLEY				3570	47.8	12.8	38	167
CLEARWATER			2660	3390	59.4	13.2	36	170
CDC COPELAND		2660	2670	3180	47.3	13.0	36	170
C.V. %	9	8	8	8	1.3	3.2	4	1
LSD '@ .10'	210	240	310	490	0.9	0.6	2	1
Average	3940	3460	3610	4590	50.4	12.6	33	169
Highest	4470	3940	4330	5940	60.9	13.4	38	172
Lowest	3270	2660	2660	3180	45.1	11.6	27	167

Dayton Spring Barley – Preliminary Data

1. Grain yield in the Dayton spring barley trial averaged 4590 pounds/acre, 650 pounds/acre higher than the 5-year average for this location. The Dayton nursery was located 6 miles north of Dayton, WA (Jay Penner, cooperator).
2. This nursery was seeded on 19 March, 2010 following winter wheat. Seed was placed at a 90#/acre seeding rate using a double disk plot drill set on 6-inch spacing. Base applied fertilizer was 100#N/acre and a pre-fertilization soil sample showed an additional 84#N residual. Spring seeding conditions were good, but early spring conditions were dry until unusually prolific rainfall started in May. At the field tour for this location, on June 29, many spring wheat varieties were covered with stripe rust, but we did not find inflection in the barley. Different types of stripe rust attack wheat and barley and we did not see significant barley stripe rust this year. The Alpha Lattice experimental designs improved variation allocation during statistical analysis and the CV by 19% compared to a RCBD design.
3. Yields ranged from 3180 lb/ac to 5940 lb/ac. Yield values within the LSD range of the highest yield are shown in bold and 3 of the 36 entries are in this group. All entries were 2-row and hulless entries are listed in italic.
4. Test weights were good with an average of 50.4 lb/bu and ranged from 45.1 to 60.9 lb/bu with the high values produced by hulless cultivars. Grain protein averaged 12.6% and the average plant height averaged 33 inches.