

2009 WSU EXTENSION SPRING BARLEY NURSERY AT PULLMAN, WA.

Variety Name *6-Row Italicized	2009			2009						
	5 YEAR AVERAGE (LBS/A)	3 YEAR AVERAGE (LBS/A)	2 YEAR AVERAGE (LBS/A)	YIELD (LBS/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLUMP (%)	THIN (%)	PLANT HEAD HT	DATE
LENETAH			5227	5702	53.0	12.5	97	1	30.3	176.0
SPAULDING	5056	5182	4797	5482	54.2	12.0	98	1	28.3	173.7
RWA 1758			5275	5324	52.1	12.8	97	1	25.8	173.0
HARRINGTON	4539	4768	4735	5125	52.3	12.5	97	2	29.7	172.7
04WA-113.22			5065	5122	51.8	13.2	96	1	27.0	172.0
04WVZ-124			5019	5122	50.7	13.7	93	2	24.3	178.3
05WA-316.K				5120	51.0	12.3	96	1	24.3	171.3
2004NZ170				5086	51.3	11.5	97	1	22.3	180.0
CHAMPION	5375	5317	5265	5025	53.1	12.7	98	1	27.3	171.3
05WA-316.99				4975	51.2	11.8	97	2	25.5	172.7
KENT		4953	5020	4946	51.1	11.6	96	2	25.5	179.0
BARONESSE	4919	4917	4997	4943	51.1	12.2	94	3	25.2	173.3
CDC COPELAND			4495	4899	52.6	12.1	97	1	32.8	175.3
05WA-360.24				4891	51.3	12.5	95	1	26.5	173.3
RADIANT	4654	4681	4753	4876	50.7	11.5	90	3	26.8	174.3
BOB	4830	4828	4962	4783	51.2	12.9	92	2	26.2	173.3
04WA-102.49			4820	4769	51.3	12.9	97	1	22.8	177.0
04WA-122.9			4670	4760	52.6	12.6	96	3	26.5	173.3
2004NZ223				4749	52.9	12.8	97	1	24.2	180.0
HAXBY		4863	4581	4717	54.0	11.8	97	1	27.2	171.0
05WA-357.14				4670	51.7	12.2	98	2	25.8	173.3
05WA-325.18				4626	51.0	13.2	97	3	28.2	174.7
05WA-329.49				4509	52.0	13.1	98	1	27.3	174.0
03WA-204.22H (Hulless)				4494	58.9	13.3	90	3	27.2	173.3
TETONIA				4477	52.0	10.8	96	2	24.3	175.3
04WVZ-286		4501	4329	4396	52.4	12.5	97	2	23.5	174.0
PINNACLE				4342	52.1	11.4	99	1	28.3	171.7
CLEARWATER(Hulless)				4332	57.3	12.2	89	2	27.7	173.7
AC METCALFE	4345	4471	4352	4279	51.7	12.6	97	1	28.3	172.7
LEGACY	4451	4520	4358	4216	49.1	12.0	97	1	30.2	170.7
05WA-328.8				4183	49.0	13.4	97	1	29.5	169.3
2004NZ052				4048	52.4	13.0	98	1	24.3	176.3
WA 9820-98 (Hulless)		4212	4120	3887	57.1	12.9	71	5	25.3	174.0
MERESSE (Hulless)		4129	4148	3723	54.9	14.6	89	2	24.3	170.7
01WA-13860.5 (Hulless)		4029	3901	3692	57.1	13.2	88	3	25.2	174.3
2004NZ160				3531	52.4	11.5	99	0	20.5	178.7
C.V. %	8	9	10	10	1.3	3.9	2	70	4.9	0.6
LSD '@ .10'	238	334	426	650	0.9	0.7	3	2	1.7	1.4
Average	4771	4669	4709	4662	52.5	12.5	95	2	26.3	174.1
Highest	5375	5317	5275	5702	58.9	14.6	99	5	32.8	180.0
Lowest	4345	4029	3901	3531	49.0	10.8	71	0	20.5	169.3

Pullman Spring Barley – Preliminary Data

1. Grain yield in the Pullman spring barley trial averaged 4660 pounds/acre about 110 pounds/acre lower than the previous 5-year average. The Pullman nursery was located about 2 miles south of Pullman, WA on the Spillman WSU agronomy farm (Ryan Davis, farm manager).
2. This nursery was seeded on 21 April, 2009 following dry pea. Seed was placed at a 90#/acre seeding rate using a double-disk plot drill fitted with seven openers set on 6-inch spacing. Spring seeding conditions were good. Base fertilizer was 90#N, 20#P, and 20#S per acre applied in the spring and a soil test shows adequate nutrients. The Alpha Lattice experimental designs improved variation allocation during statistical analysis and the CV by 12% compared to a RCBD design. The CV was 10%.
3. Yields ranged from 5700 lb/ac to 3530 lb/ac. 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 italic and the hulless cultivars are designated.
4. Test weights were good with an average of 52.5 lb/bu and ranged from 49.0 lb/bu to 58.9 lb/bu. Seed plumpness, percent seed retained on a 6/64" screen, was high and averaged 95% indicating good grain filling. The hulless cultivars produce the highest test weights and lower plump percentages due to lack of hulls. Grain protein averaged 12.5%. The average plant height was 26 inches.