

## 2007 WSU EXTENSION SPRING BARLEY NURSERY AT PULLMAN, WA.

Variety Name <i>*6-Row Italized</i>	5 YEAR AVERAGE (LBS/A)	3 YEAR AVERAGE (LBS/A)	2 YEAR AVERAGE (LBS/A)	2007				
				YIELD (LBS/A)	TEST WT. (LBS/BU)	PLANT HT	HEAD DATE	LODGING (%)
SPAULDING		5228.6	5664.7	5952.6	53.1	31.3	172.3	0.0
<i>01NZ384</i>		5625.4	5758.7	5572.7	48.4	34.0	171.0	0.0
HAXBY				5427.9	53.4	32.0	171.0	0.0
CHAMPION		5447.5	5707.5	5419.8	52.6	31.7	170.7	0.0
02WNZ-1095		5202.5	5573.9	5379.0	50.9	29.0	173.7	0.0
02WA-7028.9			5448.8	5370.8	52.3	32.3	171.3	0.0
<i>03WA-192.4</i>				5298.0	49.4	34.0	171.0	0.0
02WA-7052.9			5605.4	5256.1	51.1	28.7	175.0	0.0
03NZ199			5404.2	5254.4	49.5	27.0	176.3	0.0
02WNZ-1015		5223.9	5346.5	5162.6	50.3	27.3	174.7	0.0
<i>01NZ392</i>		5453.4	5477.3	5147.4	49.4	34.0	171.3	0.0
02WNZ-1821				5074.7	49.7	28.3	172.7	0.0
02WNZ-1100		5469.8	5630.5	5057.8	48.9	28.7	172.7	0.0
04WNZ-90				5009.1	50.8	29.3	173.3	0.0
03WNZ-045				5007.1	52.9	31.0	173.3	0.0
BOULDER	5560.6	5348.6	5583.1	4965.4	53.7	30.3	170.3	0.0
01NZ111		4935.3	5097.2	4960.0	52.1	23.3	175.7	0.0
04WNZ-55				4910.7	49.4	31.3	172.7	0.0
FARMINGTON	5144.4	4949.3	5112.6	4899.6	51.0	26.3	177.0	0.0
02WNZ-1990				4871.0	49.2	29.0	175.3	0.0
04WNZ-286				4845.1	50.8	30.3	173.3	0.0
<i>LEGACY</i>	4918.6	4513.5	4681.1	4842.9	50.9	36.0	169.7	7.3
HARRINGTON	4862.5	4407.9	4825.2	4834.0	47.0	32.3	172.7	0.0
HE-8805			5288.5	4820.3	51.0	25.7	176.7	0.0
BARONESSE	5339.4	4866.9	5227.8	4757.9	47.9	29.3	175.0	0.0
<i>MOREX</i>	4585.6	4516.5	4663.1	4739.8	49.7	36.3	167.0	0.7
AC METCALFE	4848.9	4340.6	4707.6	4711.1	51.6	32.0	172.3	0.0
BOB	4964.2	4742.3	4772.4	4559.2	50.6	28.0	175.0	0.0
RADIANT	5046.4	4587.7	4986.1	4537.0	47.3	29.7	176.3	0.0
<i>01NZ706</i>	5256.2	4786.8	4953.8	4441.3	46.0	34.0	170.7	0.0
WA 9820-98			4383.6	4397.2	52.3	27.7	176.3	0.0
02WA-7037.25				4342.3	49.6	29.3	171.7	0.0
BURTON		4561.5	4642.2	4312.8	47.7	30.3	175.0	0.0
01WA-13860.5				4286.9	56.9	28.7	171.3	0.0
02WA-7018.13			4809.8	4127.2	51.7	32.0	171.7	0.0
MERESSE			4300.9	4091.4	58.4	29.3	171.0	0.0
C.V. %	6.6	7.2	7.9	8.0	3.6	--	--	--
LSD '@ .10'	205.9	278.8	385.3	535.6	2.5	--	--	--
Average	5052.7	4958.3	5140.5	4906.8	50.8	30.3	173.0	0.2
Highest	5560.6	5625.4	5758.7	5952.6	58.4	36.3	177.0	7.3
Lowest	4585.6	4340.6	4300.9	4091.4	46.0	23.3	167.0	0.0

## PULLMAN SPRING BARLEY – 2007 WSU VARIETY TESTING DATA

1. 2007 Spring barley **yield data** from the WSU Variety Testing nursery at the Pullman, WA location averaged 4906 lbs/ac. This is -10.2% below a historical 3-yr average yield for this location. *NOTE: This nursery was located on WSU Spillman Agronomy Farm, Dept. of Crop and Soil Sciences, approximately 5 miles southeast of Pullman, WA on Johnson Rd (S. Kuehner, Manager).*
2. This nursery was planted (20 April 2007) on re-crop ground following spring peas with a double disc plot drill (6-inch spacing) at a 90#/acre seeding rate. Base fertilizer was 80#N, 20P and 20#S.
3. It seems worth noting in this nursery, as well as many others this year that many newer varieties/lines have continued to nudge Baronesse out of the limelight in both **yield** and test weight rankings. Overall, yield rankings in 2007 jumped around a lot in this nursery compared to 3-yr average yield rankings.
4. **Test weight** average values were good at 50.8 lbs/bu, with a range among feed barley-types of 46.0 lbs/bu (01NZ706) to 53.4 lbs/bu (Haxby).
5. **Four hull-less, waxy barleys** were included in the trial (02WA-7037.25, 01WA-13860.5, WA 9820-98 (WSU) and MERESSE (Westbred, LLC) that had exceedingly high test weight values due to the kernel characteristic with no 'hull'. Test weight values for these varieties had a range of 50.4 lbs/ac to 55.6 lb/ac. Waxy barley is a type of specialty barley that has several quality traits that make it adaptable to many end uses. Most notably, waxy barley has a modified starch profile and increased levels of beta-glucans. Varieties with waxy starch are ideal for many food and industrial applications.  
**Limitations of Waxy barley:** Generally waxy barley varieties have reduced yield between 20 and 30% compared to normal feed barley varieties. This yield reduction is in part due to the fact that most waxy barley varieties are also hull-less thus reducing their production per acre on a weight basis. The four hullless barley entries at this location had the lowest yields.