

## 2006 WSU EXTENSION SPRING BARLEY NURSERY AT PULLMAN, WA.

Variety Name	5 YEAR AVERAGE (LBS/A)	3 YEAR AVERAGE (LBS/A)	2 YEAR AVERAGE (LBS/A)	2006				
				YIELD (LBS/A)	TEST WT. (LBS/BU)	PLANT HT	HEAD DATE	LODGING (%)
02WNZ-1100			5675.8	6203.2	54.3	--	176.0	0.0
BOULDER		6010.7	5540.2	6200.8	55.8	--	177.0	0.0
YU-501-385D				5995.2	54.8	--	175.0	6.0
02WA-7052.9				5954.8	53.5	--	176.0	6.0
01NZ384			5651.8	5944.8	50.1	--	175.0	21.7
01NZ392		6241.9	5606.4	5807.2	51.1	--	175.0	3.3
03WNZ-262				5769.2	52.1	--	176.0	0.3
02WNZ-1095			5114.2	5768.8	54.2	--	177.0	0.0
HE-8805				5756.8	52.7	--	180.0	0.0
BARONESSE	5441.5	5684.5	4921.4	5697.6	52.0	--	178.0	13.3
01NZ338		5906.1	5291.2	5590.4	50.5	--	176.0	0.0
03NZ199				5554.0	52.4	--	179.0	0.0
02WNZ-1015			5254.6	5530.4	51.6	--	177.0	22.0
02WA-7028.9				5526.8	54.2	--	177.0	1.0
02WA-7018.13				5492.4	53.5	--	176.0	2.3
01NZ706		5825.3	4959.6	5466.4	50.1	--	176.0	18.0
RADIANT	5207.7	5272.7	4613.0	5435.2	52.9	--	178.0	19.3
SPAULDING			4866.6	5376.8	55.0	--	176.0	0.0
03WNZ-164				5360.0	52.8	--	177.0	0.3
WA 7330-00		5365.3	4842.8	5354.0	52.4	--	178.0	21.7
03GNZ-722				5350.8	50.1	--	178.0	0.0
FARMINGTON	5238.6	5504.9	4974.2	5325.6	51.8	--	179.0	0.0
WA 10701-99		5467.9	4752.8	5288.4	50.2	--	178.0	24.0
01NZ111		5692.8	4923.0	5234.4	53.8	--	180.0	0.0
03WNZ-249				5133.6	53.3	--	178.0	0.7
WA 15279-00		5329.9	4568.4	5106.0	49.2	--	176.0	10.3
02WA-7047.24				5018.0	52.1	--	178.0	0.3
BOB	5111.1	5272.1	4833.8	4985.6	52.6	--	177.0	13.7
BURTON			4685.8	4971.6	52.9	--	177.0	3.7
02WA-7029.7				4922.0	51.5	--	178.0	0.0
03NZ885				4904.4	49.6	--	178.0	15.7
HARRINGTON	4930.5	4970.3	4194.8	4816.4	50.5	--	179.0	2.0
03GNZ-834				4786.4	51.2	--	176.0	0.0
03GNZ-716				4724.8	50.9	--	179.0	0.3
AC METCALFE		4973.2	4155.4	4704.0	51.5	--	177.0	6.3
MOREX	4511.1	4763.9	4404.8	4586.4	50.9	--	168.0	70.0
YU-501-385N				4566.4	52.4	--	178.0	36.3
LEGACY	4922.0	5132.9	4348.8	4519.2	51.6	--	175.0	50.0
MERESSE				4510.4	61.4	--	175.0	0.0
WA 9820-98				4370.0	59.5	--	179.0	9.3
C.V. %	6.0	6.3	6.8	7.8	1.3	--	--	111.9
LSD '@ .10'	190.6	263.1	325.1	563.2	0.9	--	--	14.4
Average	5051.8	5463.4	4917.2	5290.2	52.6	--	177.0	9.5
Highest	5441.5	6241.9	5675.8	6203.2	61.4	--	180.0	70.0
Lowest	4511.1	4763.9	4155.4	4370.0	49.2	--	168.0	0.0

## **PULLMAN SPRING BARLEY – 2006 WSU VARIETY TESTING DATA**

1. 2006 Spring Barley **yield data** from the WSU Variety Testing nursery at the Pullman location averaged 5290 lbs/ac that were **3.2% lower** than the 3-year average yield (5463 lbs/ac).  
*NOTE: This nursery was located, approximately 5 miles south of Pullman, WA on Spillman Agronomy Farm, Dept. of Crop and Soil Sciences, WSU).*
2. The nursery was **seeded** on 25 April 2006 on re-crop ground following spring (2005) peas.
3. **Average YIELD RANKINGS** closely tracked with historical 3-yr and 5-yr yield rankings. Legacy, (Busch Ag), 6-row malting barley was one variety that did not track with historical yield rankings; however, this is probably due to a fairly high (50%) level of lodging in Legacy in the 2006 nursery. In general, there was not much lodging in this nursery; however, varieties/lines that exhibited substantial lodging also had some of the lower yields. Baronesse had yields that were statistically 'equal' to each of the higher yielding varieties/lines that ranked higher, however, some of these newer varieties/lines have consistently shown higher yields and test weight values than Baronesse in other spring barley nurseries in 2006
4. **TEST WEIGHT** average values were high at 52.6 lbs/bu; with a range among feed barley/malting-types of 49.2 (WA 15279-00) to 55.8 lbs/bu (Boulder). Spaulding also had a test weight value that reached 55.0 lbs/bu.
5. **Two hull-less, waxy barleys** were included in the trial (WA9820-98 (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 were 59.5/bu and 61.4lbs/bu, respectively. 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. Both varieties had the lowest yields in the Pullman spring wheat nursery.