

## 2006 WSU EXTENSION SPRING BARLEY NURSERY AT LAMONT, 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
YU-501-385D				6156.5	52.8	31.0	163.0
RADIANT	4012.2	4842.7	5980.5	5755.5	50.9	29.7	164.0
03WNZ-249				5658.0	50.4	29.3	163.5
BARONESSE	4097.8	4822.3	5790.3	5622.0	50.7	28.7	163.0
SPAULDING			5174.5	5487.0	52.6	31.0	163.0
02WNZ-1095			5510.3	5484.5	50.8	31.0	163.0
01NZ384			4797.3	5413.0	48.2	33.7	163.0
03NZ885				5358.0	49.4	28.7	165.0
WA 10701-99		4305.7	5273.0	5323.5	50.7	32.0	164.5
HE-8805				5316.0	50.6	28.3	166.0
YU-501-385N				5313.5	50.6	34.7	163.0
BOB	3865.6	4470.8	5573.5	5300.0	51.0	30.3	163.0
02WNZ-1015			5123.0	5243.0	50.7	29.0	164.0
02WA-7028.9				5234.0	51.1	30.0	163.0
BURTON			5270.3	5163.5	50.3	30.7	164.0
03WNZ-164				5136.0	50.7	28.7	163.5
01NZ111		3774.8	4708.3	5128.0	52.8	28.0	166.0
LEGACY	3206.9	3754.3	4499.0	5078.0	49.1	35.7	160.5
02WA-7018.13				5005.5	50.7	29.3	161.5
03WNZ-262				4984.0	50.2	28.3	163.5
BOULDER		4027.3	4793.8	4962.5	52.5	29.0	163.0
03NZ199				4948.5	49.2	26.0	167.0
WA 7330-00		4021.5	4978.8	4895.5	49.6	27.7	162.5
02WA-7047.24				4867.5	50.8	30.0	164.5
02WNZ-1100			4994.3	4845.5	49.9	29.3	163.0
02WA-7052.9				4842.0	50.7	28.0	164.0
03GNZ-722				4823.0	49.1	31.3	165.5
HARRINGTON	3195.0	3831.3	4589.5	4749.5	50.2	32.7	164.0
FARMINGTON	3521.4	4024.7	4842.5	4735.0	50.6	28.0	165.5
MOREX	2759.6	3276.5	4123.5	4721.0	49.7	38.0	160.0
01NZ338		3735.5	4867.3	4707.0	47.6	34.3	165.0
WA 15279-00		4144.5	4867.3	4663.0	48.8	29.0	164.0
AC METCALFE		3705.0	4749.0	4614.0	50.5	34.0	163.0
02WA-7029.7				4580.5	49.2	28.7	163.5
WA 9820-98				4527.5	59.4	27.7	165.5
01NZ706		3643.2	4600.8	4492.0	46.3	35.7	163.0
01NZ392		3595.3	4451.3	4339.0	48.2	34.0	163.5
03GNZ-834				4118.0	49.0	29.0	165.0
03GNZ-716				4076.5	49.1	32.3	166.0
MERESSE				3239.0	59.9	27.7	163.0
C.V. %	9.9	11.0	10.9	7.7	1.1	--	--
LSD '@ .10'	239.0	375.8	514.7	522.2	0.8	--	--
Average	3522.6	3998.5	4979.9	4972.7	50.6	30.5	163.8
Highest	4097.8	4842.7	5980.5	6156.5	59.9	38.0	167.0
Lowest	2759.6	3276.5	4123.5	3239.0	46.3	26.0	160.0

## LAMONT SPRING BARLEY – 2006 WSU VARIETY TESTING DATA

1. 2006 Spring Barley **yield data** from the WSU Variety Testing nursery at the Lamont location averaged 4972 lbs/ac that were **over 24% higher** than the 3-year average yield (3998 lbs/ac). This nursery was planted on 30 Mar 2006 on re-crop ground following spring barley. Base fertilizer applied was 65#N with 0#S. Soil moisture was good at only one (1) inch below the soil surface. *NOTE: This nursery was located, approximately 10 miles south of Lamont, WA on the SR23 (St John/Lamont Rd) – G. White farm).*
2. **Average YIELD RANKINGS** closely tracked with historical 3-yr and 5-yr yield rankings. It is worth noting that this spring barley nursery was planted at the same site as the previous year (2005) Variety Testing nursery so we actually have two spring barley crops on the same piece of ground. Even though this 'rotation' is not a common commercial practice, part of the higher yield averages could be associated with the positive rotational effect of barley. The majority of the highest yielding varieties have Baronesse as part of the pedigree. The highest yielding line (YU-501-385D) is an experimental line from Westbred, LLC that is a cross of Baronesse x Camas. Camas, UI, was not included in the trial but is a variety noted for high test weight values that are trying to be attained when using it in crosses with other varieties. Radiant (WSU) and Baronesse (Westbred, LLC) continue to perform well at this location.
3. **TEST WEIGHT** average values were good at 50.6 lbs/bu; with a range among feed barley-types of 46.3 (01NZ70)) to 52.8 lbs/bu (YU-501-385D, and 01NZ111). Two other commercial varieties (Spaulding (GMG) and Boulder (Westbred, LLC) also had test weight values that exceeded 52#/bu.
4. **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 59.4 lbs/bu and 59.9 lbs/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.