

2006 WSU EXTENSION SPRING BARLEY NURSERY AT ST. JOHN, 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
02WZN-1095			5436.0	5854.5	51.7	31.0	174.5
03NZ885				5380.5	48.7	29.3	175.0
FARMINGTON	4287.4	4663.5	4553.5	5342.5	50.2	26.0	175.5
SPAULDING			4431.5	5337.0	53.3	30.0	173.5
02WA-7052.9				5281.0	51.8	28.7	175.0
HE-8805				5275.5	50.5	24.7	176.0
BARONESSE	4519.7	4826.5	4708.0	5201.5	51.3	28.3	175.0
02WZN-1015			4704.0	5185.5	50.5	27.0	175.0
BURTON			4807.8	5162.5	51.3	32.3	175.5
HARRINGTON	3977.4	4132.3	4119.5	5151.0	50.5	30.0	175.0
03NZ199				5151.0	49.2	24.3	177.5
WA 15279-00		4916.0	5064.8	5095.5	49.5	29.3	175.0
02WA-7028.9				5033.0	51.2	32.7	173.0
03WZN-249				5022.5	50.9	28.3	175.5
BOB	4541.9	4741.3	4740.0	4964.5	51.7	30.3	173.5
03GNZ-834				4964.5	49.1	30.0	175.5
RADIANT	4479.0	4798.3	4598.8	4953.0	51.3	28.0	176.0
YU-501-385N				4947.5	51.3	33.0	174.5
YU-501-385D				4943.0	52.8	30.3	173.5
02WZN-1100			4662.3	4871.0	50.7	29.0	174.5
WA 7330-00		4648.8	4639.5	4858.0	50.8	28.0	175.0
WA 10701-99		4666.3	4598.0	4857.5	51.1	29.3	174.5
02WA-7018.13				4837.0	51.7	31.0	174.0
AC METCALFE		4106.5	4050.5	4769.5	50.7	32.3	174.0
02WA-7029.7				4755.5	49.8	29.7	175.5
01NZ111		4668.2	4503.3	4723.0	52.7	25.3	177.0
LEGACY	3853.9	3920.2	3842.3	4722.0	47.9	35.3	172.0
01NZ338		4252.2	4119.0	4719.5	47.1	31.3	175.5
BOULDER		4249.5	4153.5	4539.5	53.6	31.3	173.0
03GNZ-716				4498.0	49.1	29.7	176.5
03WZN-164				4478.0	50.9	29.3	175.0
02WA-7047.24				4469.5	50.7	30.3	176.0
01NZ384			4218.3	4434.5	47.3	31.3	174.0
03GNZ-722				4369.0	49.2	29.0	176.5
WA 9820-98				4272.0	59.3	26.0	176.0
01NZ706		4113.7	4031.0	4264.0	47.0	32.3	174.5
03WZN-262				4188.0	50.1	28.7	175.0
MOREX	3200.7	3262.5	3841.3	4134.5	48.9	37.3	170.0
01NZ392		4053.2	3753.5	3848.0	47.4	31.0	174.0
MERESSE				3466.5	60.2	27.7	172.5
C.V. %	9.4	10.9	11.9	10.7	0.9	--	--
LSD '@ .10'	249.0	381.8	512.5	698.0	0.7	--	--
Average	4122.9	4376.2	4435.3	4808.0	50.8	29.7	174.7
Highest	4541.9	4916.0	5436.0	5854.5	60.2	37.3	177.5
Lowest	3200.7	3262.5	3753.5	3466.5	47.0	24.3	170.0

ST JOHN SPRING BARLEY – 2006 WSU VARIETY TESTING DATA

1. 2006 Spring Barley **yield data** from the WSU Variety Testing nursery at the St John location averaged 4808 lbs/ac that was higher than the 3-year average yield by 9.8% (432 lbs/ac). This yield increase above historical yields is a function of excellent soil moisture at planting (26 April 2006) and above normal precipitation during end of May and first part of June that enhanced tiller production and development. *NOTE: This nursery was located, approximately 8 miles east of St John, WA on Ingram Rd (M. Mills's farm).*
2. A few newer varieties/experimental lines had average **YIELD RANKINGS** higher than Baronesse; however, Baronesse continues to play a dominant role especially from a statistical standpoint, it was 'statistically-equal' to 28 of the 40 varieties/experimental lines in the trial. Yield rankings bounced around a little bit in 2006 compared to the historical 3-yr and 5-yr historical rankings. Six-row varieties/lines (listed in italics in the data set) continued to be at the lower end of the yield rankings. This is fairly typical since 6-row types tend to produce few tillers and could have been more sensitive to the early May 2006 frost.
3. **TEST WEIGHT** average values were good at 50.8 lbs/bu; with a range among feed barley-types of 47.0 (01NZ706) to 53.6 lbs/bu (Boulder) –heavy barley at this location.
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 59.3 lbs/bu and 60.2 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.