

## 2006 WSU EXTENSION SPRING BARLEY NURSERY AT ALMIRA, 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			4619.3	5429.5	53.3	29.0	178.5
02WA-7028.9				5392.0	53.7	33.3	177.0
02WZN-1015			4358.0	5319.0	53.6	26.3	179.0
02WA-7052.9				5306.0	53.9	28.7	179.0
BOB	3857.8	4211.3	4417.8	5279.0	53.4	31.7	177.5
SPAULDING			4367.3	5204.0	54.1	32.0	177.5
WA 15279-00		3848.5	4246.5	5161.5	51.8	31.0	179.0
WA 10701-99		3973.8	4169.3	5161.0	52.9	27.7	178.5
03WZN-249				5148.5	51.9	31.3	179.5
02WZN-1100			4397.0	5141.5	51.0	30.7	178.5
YU-501-385D				5072.5	53.8	33.3	177.5
HE-8805				5042.5	51.3	21.3	180.0
WA 7330-00		4013.5	4230.8	5034.0	51.9	30.0	179.0
01NZ111		3641.2	3841.5	5031.5	53.7	23.7	181.0
03WZN-262				5030.0	50.9	29.0	179.0
BARONESSE	3828.3	4123.2	4277.8	4971.5	52.1	30.3	179.0
03NZ199				4956.0	48.5	24.0	181.5
03NZ885				4956.0	49.4	30.0	179.0
FARMINGTON	3377.1	3713.5	4057.0	4918.0	50.9	24.0	179.5
YU-501-385N				4918.0	52.7	34.0	178.5
RADIANT	3698.7	3993.0	4201.5	4859.5	52.7	29.0	180.0
02WA-7018.13				4844.5	53.3	29.3	178.0
02WA-7047.24				4838.5	52.1	30.7	180.0
03WZN-164				4829.0	50.9	30.0	179.0
02WA-7029.7				4793.5	51.3	30.0	179.5
AC METCALFE		3713.0	3899.3	4723.0	52.0	33.3	178.0
LEGACY	3341.7	3523.2	3615.8	4708.0	49.8	34.7	176.0
BURTON			3994.5	4702.5	52.7	32.0	179.5
01NZ338		3452.0	3795.0	4700.5	48.7	34.3	179.5
HARRINGTON	3403.4	3866.8	4054.0	4696.5	50.0	32.0	179.0
01NZ706		3623.8	3988.3	4682.5	49.6	35.0	178.5
01NZ384			3812.0	4649.5	50.2	34.7	178.0
03GNZ-834				4639.0	49.8	31.3	179.5
BOULDER		4043.2	4157.5	4617.5	54.2	29.3	177.0
03GNZ-716				4605.0	50.5	30.3	180.5
03GNZ-722				4462.0	49.7	28.7	180.5
01NZ392		3555.3	3695.0	4378.0	49.3	34.0	178.0
WA 9820-98				4345.0	61.0	23.3	180.0
MOREX	3055.8	3321.7	3378.8	4200.5	49.0	38.7	174.0
MERESSE				4001.0	61.3	28.3	176.5
C.V. %	7.5	7.6	6.9	6.2	2.8	--	--
LSD '@ .10'	178.3	243.2	282.6	407.4	2.0	--	--
Average	3509.0	3788.6	4071.5	4868.7	52.1	30.3	178.7
Highest	3857.8	4211.3	4619.3	5429.5	61.3	38.7	181.5
Lowest	3055.8	3321.7	3378.8	4001.0	48.5	21.3	174.0

## ALMIRA SPRING BARLEY – 2006 WSU VARIETY TESTING DATA

1. 2006 Spring Barley **yield data** from the WSU Variety Testing nursery at the Almira location averaged 4868.7 lbs/ac that were higher than the 3-year average yield by 28.5% (1080 lbs/ac). This substantial yield increase above historical yields is a function of above normal precipitation during end of May and first part of June that enhanced tiller production and development coupled with being planted on fallow ground. *NOTE: This nursery was located approximately 8 miles northwest of Wilbur, WA on Douglas Rd (D. McKay farm).*
2. Many newer varieties/experimental lines had average **YIELD RANKINGS** higher than Baronesse that was in the 16 spot out of forty entries; however, from a 'statistical' standpoint, only the top two experimental lines had average yields 'statistically' greater than Baronesse.
3. **TEST WEIGHT** average values were 52.1 lbs/bu; with a range among feed barley-types of 48.5 to 54.2 – really 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 61.0 lbs/bu and 61.3 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.