

## 2007 WSU EXTENSION SPRING BARLEY NURSERY AT ALMIRA, 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
BOB	3877.1	3988.6	4204.6	3130.2	48.0	29.0	177.5
02WZN-1100		3971.6	4131.1	3120.8	47.1	29.3	177.5
BOULDER	3758.4	3795.5	3844.5	3071.5	48.1	28.3	176.5
HAXBY				3037.3	49.3	30.0	177.5
SPAULDING		3903.5	4090.0	2976.1	48.2	28.3	177.0
CHAMPION		3946.2	4010.2	2948.0	48.2	29.0	177.0
02WZN-1095		4055.1	4178.2	2926.8	46.6	27.3	178.0
02WA-7018.13			3871.5	2898.6	46.8	30.0	177.0
01NZ111		3523.0	3958.8	2886.0	48.7	24.0	179.0
HARRINGTON	3496.1	3633.1	3743.9	2791.3	45.4	29.7	177.5
MOREX	3141.4	3178.0	3488.5	2776.5	45.8	35.0	173.5
02WA-7028.9			4066.6	2741.1	46.8	28.0	177.0
04WZN-90				2647.5	45.9	27.0	177.5
04WZN-286				2636.3	47.5	29.3	178.0
01NZ384		3397.9	3609.6	2569.8	43.8	32.0	176.0
02WZN-1015		3756.9	3936.9	2554.8	45.6	24.3	179.0
RADIANT	3595.3	3651.6	3705.7	2551.9	45.6	27.7	178.5
02WA-7052.9			3926.7	2547.5	45.5	24.7	178.5
04WZN-55				2540.7	44.7	27.3	178.5
BARONESSE	3678.5	3650.6	3683.9	2396.3	45.2	27.0	177.5
BURTON		3455.8	3540.5	2378.5	44.4	27.7	178.0
LEGACY	3282.4	3201.8	3541.0	2374.0	43.7	34.7	174.0
01WA-13860.5				2365.4	53.7	28.3	179.0
02WA-7037.25				2341.0	51.5	27.3	177.5
02WZN-1990				2336.5	43.7	27.3	177.5
FARMINGTON	3366.7	3479.0	3620.5	2323.0	44.3	23.0	180.5
02WZN-1821				2259.6	44.2	25.7	177.5
MERESSE			3076.7	2152.4	56.5	25.3	177.0
03WZN-045				2152.3	44.4	29.7	179.0
03WA-192.4				2118.5	41.8	29.0	176.0
HE-8805			3569.6	2096.6	43.0	23.0	180.0
03NZ199			3499.0	2042.0	42.2	22.0	180.0
AC METCALFE	3357.0	3274.3	3373.8	2024.5	43.0	27.0	178.5
01NZ392		3123.2	3178.7	1979.5	41.4	31.0	177.0
01NZ706	3157.9	3312.8	3322.3	1962.0	41.4	31.7	175.0
WA 9820-98			3145.9	1946.7	57.3	23.3	179.0
C.V. %	9.4	9.6	10.0	15.7	3.5	--	--
LSD '@ .10'	195.6	258.5	335.0	540.2	2.2	--	--
Average	3471.1	3594.7	3704.6	2516.7	46.4	27.9	177.6
Highest	3877.1	4055.1	4204.6	3130.2	57.3	35.0	180.5
Lowest	3141.4	3123.2	3076.7	1946.7	41.4	22.0	173.5

## ALMIRA SPRING BARLEY – 2007 WSU VARIETY TESTING DATA

1. 2007 Spring barley **yield data** from the WSU Variety Testing nursery at the Almira, WA (location averaged 2516 lbs/ac. This is about 34% lower than historical 3-yr average yields for this location. *NOTE: The Almira nursery was located 10 miles north of Almira, WA on Sorensen Rd (D. McKay farm).*
2. This nursery was planted (20 April 2007) on re-crop ground following spring barley with a double disc plot drill (6-inch spacing) at a 70#/acre seeding rate. A March 2007 soil test showed 8.2 inches moisture in the top 4-feet. Base fertilizer was 70#N and 8#S.
3. Little to **no disease pressure** was apparent in the 2007 nursery.
4. This nursery had fair emergence but was negatively impacted by the dry, cool spring growing conditions this year, particularly the 3-month period (Mar-May) of below normal precipitation. In addition, this location 'missed' some of the late May – early June 2007 rain storms. It seems worth noting that some newer varieties/lines are nudging Baronesse out of the limelight in both **yield** and test weight rankings. Overall, yield rankings in 2007 tracked closely with 3-yr average yield rankings.
5. **Test weight** average values were low at 46.4 lbs/bu, with a range among feed barley-types of 41.4 lbs/bu (01NZ392) to 49.3 lbs/bu (Haxby). It is fairly obvious that the late June/July drought/heat stress had an impact on test weight.
6. **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 55.5 to 57.2. 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.