

## 2007 WSU EXTENSION SPRING BARLEY NURSERY AT MAYVIEW, 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
CHAMPION		3882.5	4289.2	4982.9	51.7	27.7	178.5
RADIANT	3810.7	3730.0	4164.2	4895.9	48.0	26.3	183.0
02WA-7028.9			3794.2	4652.5	49.8	27.3	182.0
02WNZ-1095		3509.2	3757.6	4634.7	49.2	26.7	183.5
HE-8805			3817.7	4533.0	46.9	24.3	183.5
SPAULDING		3393.9	3791.1	4521.2	49.9	25.7	181.5
02WNZ-1100		3467.4	3856.4	4509.2	49.2	25.0	182.5
BOULDER	3700.5	3443.7	3883.1	4506.1	51.7	25.3	180.0
BARONESSE	3827.1	3522.4	3888.4	4498.3	49.0	24.0	182.0
04WNZ-90				4476.8	49.8	27.3	183.0
HAXBY				4440.4	52.1	26.3	179.5
02WA-7052.9			3787.4	4397.7	47.1	25.0	183.5
04WNZ-55				4348.1	48.5	25.7	183.5
BOB	3561.1	3394.5	3866.8	4317.5	49.5	26.7	180.5
HARRINGTON	3358.8	3238.7	3512.8	4232.7	46.9	25.3	183.0
01NZ111		3298.7	3612.1	4225.6	50.2	23.7	185.5
FARMINGTON	3517.1	3175.7	3427.7	4207.0	47.9	23.3	184.5
02WA-7018.13			4007.7	4191.4	49.6	26.7	179.5
01NZ384		3135.6	3503.5	4184.4	45.1	29.3	182.5
02WNZ-1015		3376.2	3733.0	4155.5	46.7	24.7	185.0
LEGACY	3133.9	3071.2	3482.5	4146.0	46.0	33.0	181.0
02WNZ-1821				4106.0	48.1	26.3	184.0
03NZ199			3613.8	4077.0	46.1	23.0	185.5
BURTON		3273.0	3591.4	4011.4	48.3	27.0	183.0
03WNZ-045				3994.6	48.6	28.0	184.0
02WNZ-1990				3973.8	47.2	24.7	184.0
04WNZ-286				3957.5	51.4	26.7	183.0
03WA-192.4				3826.3	44.7	28.7	182.0
AC METCALFE	3163.4	2890.7	3133.5	3710.5	47.5	28.3	183.5
MOREX	2609.4	2627.1	3113.9	3710.3	48.2	34.0	178.5
01NZ706	3056.8	2765.4	3017.1	3709.2	44.3	29.0	184.0
01WA-13860.5				3634.3	55.9	26.3	183.5
02WA-7037.25				3475.4	53.6	24.3	181.5
WA 9820-98			3142.2	3471.9	56.7	23.7	187.0
01NZ392		2869.2	3092.0	3455.0	44.3	30.0	182.5
MERESSE			2900.7	3278.9	56.8	23.7	179.0
C.V. %	8.3	9.2	9.1	7.9	1.6	--	--
LSD '@ .10'	174.2	245.3	318.8	449.7	1.1	--	--
Average	3373.9	3266.6	3606.9	4151.4	49.1	26.5	182.6
Highest	3827.1	3882.5	4289.2	4982.9	56.8	34.0	187.0
Lowest	2609.4	2627.1	2900.7	3278.9	44.3	23.0	178.5

## MAYVIEW SPRING BARLEY – 2007 WSU VARIETY TESTING DATA

1. 2007 Spring barley **yield data** from the WSU Variety Testing nursery at the Mayview, WA (Garfield County) location averaged 4151 lbs/ac. This is about 34% higher than historical 3-yr average yields for this location. *NOTE: The Mayview nursery was located on Tramway Rd about 25 miles northeast of Pomeroy, WA (Garfield County) on the breaks of the Snake River, overlooking Lower Granite to the north. (Roger and Randy Koller farm).*
2. This nursery was planted (24 April 2007) on re-crop ground following winter wheat with a double disc plot drill (6-inch spacing) at an 80#/acre seeding rate. A March 2007 soil test showed 8.49 inches moisture in the top 4-feet. Base fertilizer was 70#N.
3. Little to **no disease pressure** was apparent in the 2007 nursery.
4. It seems worth noting that some newer varieties/lines that are nudging Baronesse out of the limelight in both **yield** and test weight rankings. Overall, yield rankings in 2007 tracked nearly the same as 3-yr average yield rankings.
5. **Test weight** average values were good at 49.1 lbs/bu, with a range among feed barley-types of 44.3 lbs/bu (01NZ706) to 52.1 lbs/bu (Haxby). It is fairly obvious that the late June/July drought/heat stress had the greatest impact on 6-row entries (shown in italics in the data sheet) since most exhibited the lowest test weights in the nursery. In contrast, many of the newer varieties/entries are showing excellent test weight averages that are noticeably higher than Baronesse.
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.