

2007 WSU EXTENSION SPRING BARLEY NURSERY AT FARMINGTON, 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		6700.3	7211.6	7577.8	50.6	38.3	172.0
RADIANT	5731.4	5853.2	6463.9	6865.7	49.0	36.7	174.0
HE-8805			6160.9	6864.9	47.4	35.3	177.5
BOULDER	5926.6	5910.7	6600.8	6848.2	51.9	42.3	174.5
01NZ111		5733.4	6320.3	6779.9	50.3	32.3	179.5
<i>03WA-192.4</i>				6774.1	44.6	41.0	173.0
FARMINGTON	5947.0	5800.3	6367.0	6671.4	48.3	36.3	177.5
02WA-7028.9			6276.3	6632.1	49.7	40.7	174.5
<i>01NZ392</i>		6045.5	6425.0	6616.1	46.6	43.0	173.5
04WNZ-286				6601.7	50.9	38.7	173.0
02WNZ-1990				6515.8	47.6	39.7	174.5
BURTON		5671.0	6152.3	6482.5	49.6	40.0	173.5
04WNZ-90				6472.2	50.2	39.0	175.5
<i>01NZ384</i>		5774.8	6208.1	6404.3	46.4	40.3	173.0
03NZ199			6270.2	6399.4	46.8	34.3	178.0
LEGACY	5463.4	5643.9	6163.4	6379.7	45.6	45.7	172.0
BOB	5269.7	5006.8	5798.2	6325.4	50.0	39.0	173.5
<i>01NZ706</i>	5351.8	5157.7	5452.5	6306.0	43.8	43.0	172.5
HARRINGTON	5451.5	5461.3	5818.7	6068.4	48.3	40.3	175.0
02WNZ-1821				5998.4	47.9	36.3	174.0
02WA-7018.13			5588.2	5966.0	49.8	39.3	173.5
04WNZ-55				5905.4	48.7	37.0	175.0
BARONESSE	5196.6	4919.3	5464.8	5882.0	48.7	37.7	173.5
02WNZ-1095		4673.0	5549.0	5825.1	47.6	39.7	175.5
02WA-7052.9			5636.8	5779.2	49.1	34.7	177.0
02WNZ-1015		5224.9	5763.6	5677.8	48.6	32.7	175.5
MOREX	4604.9	4616.9	5083.2	5604.3	47.5	49.0	169.0
HAXBY				5541.3	51.6	35.7	175.5
AC METCALFE	5091.4	5023.1	5407.9	5540.7	47.5	41.7	176.0
SPAULDING		5044.5	5781.9	5524.9	50.9	33.0	174.5
WA 9820-98			5215.2	5445.3	54.4	33.7	177.0
03WNZ-045				5400.8	48.8	36.7	177.0
02WNZ-1100		4530.5	4959.7	5357.5	49.3	34.7	175.0
01WA-13860.5				5206.4	56.1	37.7	175.5
02WA-7037.25				4757.8	53.2	37.7	173.0
MERESSE			4525.6	4745.8	59.4	37.0	174.5
C.V. %	10.6	12.0	8.5	7.3	2.2	--	--
LSD '@ .10'	356.9	515.7	478.9	612.2	1.5	--	--
Average	5403.4	5410.1	5871.7	6104.0	49.4	38.3	174.7
Highest	5947.0	6700.3	7211.6	7577.8	59.4	49.0	179.5
Lowest	4604.9	4530.5	4525.6	4745.8	43.8	32.3	169.0

FARMINGTON SPRING BARLEY – 2007 WSU VARIETY TESTING DATA

1. 2007 Spring Barley **yield data** from the WSU Variety Testing nursery at the Farmington, WA location averaged 6104 lbs/ac and was slightly above (7.2%) a previous 3-yr average yield at this location. *NOTE: This nursery was located, approximately 1 mile south of Farmington, WA on the Farmington/Garfield Rd (B. Nelson (Evelyn Crowe) farm).*
2. This nursery was planted (16 April 2007) on re-crop ground following winter wheat with a double disc plot drill (6-inch spacing) at a 90#/acre seeding rate. A March 2007 soil test showed 13.5 inches moisture in the top 4-feet. Base fertilizer was 120#N and 18#S.
3. Average to slightly higher than average **yield levels** in the soft and hard white nurseries were probably supported most by the cool June 2007 temperatures and June precipitation in spite of cool, dry spring conditions and below normal precipitation from March through May. In addition, this nursery was planted on an ideal piece of ground and had excellent soil moisture indicated by the March soil test showing over 13 inches of moisture in the top 4-feet.
4. **TEST WEIGHT** values fairly good with an average of 49.4 lbs/bu and it appeared that the nurseries probably suffered a little from heat stress during the first part of July 2007 during kernel development.
5. **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 53.2 lbs/ac to 59.4 lb/ac. 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.