2006 WSU EXTENSION SPRING BARLEY NURSERY AT REARDAN, WA.

Variety Name	5 YEAR AVERAGE (LBS/A)	3 YEAR AVERAGE (LBS/A)	2 YEAR AVERAGE (LBS/A)	2006 YIELD (LBS/A)	2006 TEST WT. (LBS/BU)	2006 PLANT HT	2006 HEAD DATE
YU-501-385D				5644.8	52.0	38.3	176.5
SPAULDING			4869.2	5477.6	52.7	37.3	178.0
RADIANT	4359.9	4811.6	4766.2	5415.6	50.5	37.3	179.0
HE-8805				5343.2	48.4	31.3	182.0
BARONESSE	4494.5	4751.3	4633.2	5212.4	50.0	37.7	178.5
02WNZ-1095			4747.6	5190.8	51.5	37.3	179.5
02WNZ-1015			4789.0	5186.4	50.3	34.7	179.5
03NZ885				4990.8	49.5	35.3	179.0
BOULDER		4456.1	4477.2	4921.2	52.3	37.3	178.5
YU-501-385N				4915.2	50.0	45.0	177.0
02WA-7052.9				4884.0	50.1	34.0	180.5
02WNZ-1100			4502.0	4846.8	50.7	34.7	179.5
FARMINGTON	4196.7	4432.3	4316.8	4835.6	49.4	30.7	182.0
BOB	4188.5	4570.3	4491.0	4831.6	50.8	38.0	177.0
WA 15279-00		4548.1	4411.2	4664.8	48.8	36.7	180.0
03WNZ-262				4662.4	49.6	35.3	179.5
WA 7330-00		4292.0	4287.4	4638.4	49.7	37.0	178.5
02WA-7018.13				4637.2	50.7	38.0	178.0
02WA-7028.9				4620.8	49.6	37.3	179.0
BURTON			4312.4	4620.0	50.2	39.7	178.5
AC METCALFE		4347.2	4203.4	4569.6	50.0	39.0	180.5
03NZ199				4557.2	47.8	29.7	183.5
02WA-7047.24				4507.2	50.5	38.0	180.5
02WA-7029.7				4506.0	48.2	35.7	180.5
HARRINGTON	3958.4	4258.7	4221.8	4435.6	49.1	38.0	179.0
WA 10701-99		4322.3	4193.8	4411.2	50.7	38.3	179.5
01NZ111		4420.4	4093.8	4406.0	51.7	30.3	183.5
01NZ392		4088.3	3920.0	4341.6	47.3	40.0	180.0
01NZ384			4192.6	4245.6	46.5	40.0	180.5
01NZ706		4140.7	3952.0	4192.0	46.0	37.7	181.5
03GNZ-722				4103.2	48.7	35.3	181.5
MOREX	3408.8	3539.7	3667.2	4075.2	48.7	45.7	177.5
03WNZ-249				4020.4	49.7	35.0	180.5
01NZ338		3936.0	3809.8	3962.0	46.2	38.3	181.5
03GNZ-716				3912.0	47.9	37.7	182.0
03GNZ-834				3892.0	48.0	34.7	182.0
LEGACY	3875.5	4014.7	3758.4	3854.4	47.9	42.7	179.0
03WNZ-164				3721.2	48.8	36.0	181.0
WA 9820-98				3694.4	59.4	31.0	182.5
MERESSE				2422.8	55.3	31.7	177.5
C.V.%	7.3	6.6	6.4	7.1	1.4	--	--
LSD '@ .10'	185.0	224.4	265.9	437.7	1.0	--	--
Average	4068.9	4308.1	4300.7	4534.2	49.9	36.7	179.9
Highest	4494.5	4811.6	4869.2	5644.8	59.4	45.7	183.5
Lowest	3408.8	3539.7	3667.2	2422.8	46.0	29.7	176.5

REARDAN SPRING BARLEY – 2006 WSU VARIETY TESTING DATA

1. 2006 Spring Barley **yield data** from the WSU Variety Testing nursery at the Reardan location averaged 4534 lbs/ac that were **5% higher** than the 3-year average yield (4308 lbs/ac). *NOTE: This nursery was located, approximately 5 miles west of Reardan, WA on Janett Rd (H. Johnson farm).*
2. The nursery was **seeded** on 20 April 2006 on re-crop ground following a spring (2005) mustard crop. There was good soil moisture at seeding with the moisture level just one-inch below the soil surface. Germination and emergence was good and the stand was uniform.
3. **Average YIELD RANKINGS** closely tracked with historical 3-yr and 5-yr yield rankings. The highest yielding line (YU-501-385D @ 5644 lbs/ac) is an experimental line from Westbred, LLC that is a cross of Baronesse x Camas. Camas, UI, was not included in the trial but is a variety noted for high test weight values that are trying to be attained when using it in crosses with other varieties. Radiant (WSU) and Baronesse (Westbred, LLC) continue to perform well at this location. An experimental line from WSU, 02WNZ-1095, has also been showing high yields in the 2006 nurseries. In general, it appeared that earlier maturing varieties (heading date) seemed to have a yield and test weight advantage at this location in 2006. This is likely to be a function of capitalizing on the up-and-down weather patterns and avoiding some of the high temperature heat spikes during late June and July.
4. **TEST WEIGHT** average values were good at 49.9 lbs/bu; with a range among feed barley-types of 46.0 (01NZ706)) to 52.7 lbs/bu (Spaulding).
5. **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 59.4lbs/bu and 55.3 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.