

2007 WSU EXTENSION SPRING BARLEY NURSERY AT ANATONE, 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	--	3235.9	2917.0	1818.1	47.3	29.0	175.0
BOULDER	--	3281.6	2667.7	1584.9	48.5	29.3	176.5
HAXBY	--			1543.9	49.1	27.7	176.5
02WA-7028.9	--		2537.4	1456.8	47.4	28.7	176.5
02WNZ-1100	--	3263.8	2501.7	1359.9	45.8	25.6	177.5
03WA-192.4	--			1347.7	42.3	30.3	175.0
04WNZ-90	--			1331.8	46.3	26.7	177.5
RADIANT	--	2955.6	2267.6	1327.8	45.0	26.3	177.0
04WNZ-286	--			1306.6	45.7	28.0	177.5
02WNZ-1015	--	2959.5	2387.8	1291.6	45.0	26.0	177.0
SPAUDLING	--	3077.8	2504.0	1273.0	45.7	27.7	175.5
BOB	--	2937.9	2404.1	1258.6	46.1	26.3	177.5
BURTON	--	2896.8	2228.0	1257.0	44.4	26.0	178.0
HE-8805	--		2142.1	1252.8	44.8	24.3	178.0
04WNZ-55	--			1237.7	44.7	28.0	177.0
02WA-7018.13	--		2255.3	1218.1	45.5	29.7	176.0
MOREX	--	2682.2	2199.1	1216.6	42.0	32.0	173.5
LEGACY	--	2629.2	2122.0	1178.5	40.8	28.7	174.5
01NZ384	--	2780.4	2207.1	1173.7	41.8	30.7	175.0
02WNZ-1095	--	3310.8	2469.0	1169.5	43.7	28.7	177.0
FARMINGTON	--	2548.0	2166.2	1166.4	44.4	25.0	177.5
BARONESSE	--	2827.4	2275.0	1106.1	45.0	25.7	177.0
HARRINGTON	--	2697.0	2052.8	1057.5	44.4	25.7	177.5
02WA-7052.9	--		2150.3	1029.6	43.7	25.1	177.5
AC METCALFE	--	2738.1	2077.2	1007.4	43.4	28.0	177.5
01WA-13860.5	--			981.4	52.9	28.0	177.0
01NZ392	--	2518.0	1980.3	977.6	41.3	30.3	175.0
03NZ199	--		2025.2	968.9	43.9	26.3	178.0
03WNZ-045	--			948.1	45.6	25.3	178.0
02WNZ-1990	--			944.6	44.3	26.0	178.0
MERESSE	--		2020.5	941.9	52.3	29.0	176.5
01NZ111	--	2605.1	2025.9	926.8	47.6	27.3	176.5
01NZ706	--	2568.1	1792.6	893.3	40.5	29.0	175.5
02WA-7037.25	--			856.7	51.1	27.0	177.5
WA 9820-98	--		1757.0	842.0	51.2	26.7	177.0
02WNZ-1821	--			809.8	44.0	25.7	177.5
C.V. %	--	11.1	10.3	14.1	3.3	--	--
LSD '@ .10'	--	219.4	202.2	226.7	3.5	--	--
Average	--	2869.1	2235.9	1168.4	45.5	27.5	176.7
Highest	--	3310.8	2917.0	1818.1	52.9	32.0	178.0
Lowest	--	2518.0	1757.0	809.8	40.5	24.3	173.5

ANATONE SPRING BARLEY – 2007 WSU VARIETY TESTING DATA

1. 2007 Spring barley **yield data** from the WSU Variety Testing nursery at the Anatone, WA location averaged 11168.4.1 lbs/ac. This was considerably lower by about 70% than the historical 3-yr average yields for this location. *NOTE: The Anatone nursery was located about 8 miles south of Anatone, WA on Onstott Rd, (J. Johnson farm).*
2. This nursery was planted (11 April 2007) on re-crop ground following winter wheat with a no-till plot drill (cross slot openers on 10-inch spacing) at an 80#/acre seeding rate. Base fertilizer, 60#N, 11#P, 11#S, was applied at seeding.
3. The lower **average yields** are directly related to the cold, dry spring growing conditions experienced from March through May 2007 coupled with heat stress and even frost at times. As we always seem to say, yield rankings for individual varieties/lines seemed to track with the historical yield rankings. Interestingly, there are quite few new varieties/lines that have average yield and test weight values exceeding Baronesse.
4. **TEST WEIGHT** average values were fairly low for the majority of entries. Certain newer varieties/lines that have been bred and selected for higher test weights appeared to equal or exceed the 48 lb/bu test weight mark.
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 high test weight values due to the kernel characteristic with no 'hull'. Test weight values for these varieties had a range of 51.1 to 52.9 lbs/bu. 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.