

2006 WSU EXTENSION SPRING BARLEY NURSERY AT ANATONE, WA.

Variety Name	5 YEAR AVERAGE (LBS/A)	3 YEAR AVERAGE (LBS/A)	2 YEAR AVERAGE (LBS/A)	2006			
				YIELD (LBS/A)	TEST WT. (LBS/BU)	PLANT HT	HEAD DATE
YU-501-385D	--			4016.0	50.0	33.3	170.5
02WZN-1095	--		4381.5	3768.5	49.7	31.3	171.5
BOULDER	--	4495.3	4130.0	3750.5	50.5	32.3	170.0
SPAULDING	--		3980.3	3735.0	49.8	34.0	170.5
02WZN-1100	--		4215.8	3643.5	47.6	31.3	171.5
02WA-7028.9	--			3618.0	48.6	33.7	170.0
03WZN-262	--			3563.5	45.2	32.3	172.0
BOB	--	4208.3	3777.5	3549.5	48.0	34.0	170.5
02WZN-1015	--		3793.5	3484.0	45.5	31.0	172.0
BARONESSE	--	4150.0	3688.0	3444.0	45.1	30.7	172.0
WA 7330-00	--	4172.8	3635.8	3360.5	45.7	30.7	172.0
WA 10701-99	--	4226.2	3780.8	3307.5	45.2	34.3	171.5
02WA-7047.24	--			3296.0	48.0	32.3	173.0
02WA-7018.13	--			3292.5	49.2	30.3	171.0
02WA-7029.7	--			3291.0	45.0	31.7	172.5
02WA-7052.9	--			3271.0	46.3	29.7	172.0
01NZ384	--		3583.8	3240.5	44.3	35.3	171.0
RADIANT	--	4116.0	3769.5	3207.5	45.0	31.0	173.0
BURTON	--		3716.8	3199.0	46.3	33.0	172.5
03WZN-164	--			3199.0	47.2	31.7	172.0
MOREX	--	3343.7	3415.0	3181.5	45.5	39.3	167.0
WA 15279-00	--	4170.3	3869.5	3173.0	44.9	31.3	172.0
FARMINGTON	--	3913.2	3238.8	3166.0	46.7	28.3	172.5
03WZN-249	--			3152.5	47.1	31.0	172.5
AC METCALFE	--	3847.8	3603.5	3147.0	46.5	32.3	171.0
03NZ885	--			3128.5	43.3	29.7	172.0
01NZ111	--	4078.8	3444.3	3125.0	48.4	23.7	174.0
03GNZ-834	--			3113.0	47.7	29.3	172.5
MERESSE	--			3099.0	59.9	29.7	169.5
03NZ199	--			3081.5	44.8	27.0	174.5
LEGACY	--	3743.0	3354.5	3065.5	43.2	35.7	169.0
HARRINGTON	--	3809.8	3516.8	3048.0	44.6	32.3	172.0
HE-8805	--			3031.5	43.8	26.3	173.0
01NZ392	--	3777.2	3288.3	2983.0	42.3	35.3	171.0
01NZ338	--	3430.8	3245.3	2908.5	43.0	35.0	172.5
03GNZ-722	--			2884.0	46.1	30.7	173.5
03GNZ-716	--			2857.0	45.4	32.0	173.5
YU-501-385N	--			2702.5	44.7	33.7	171.5
01NZ706	--	3898.0	3405.5	2692.0	42.6	34.7	171.5
WA 9820-98	--			2672.0	55.2	23.3	173.0
C.V. %	--	10.9	9.2	7.7	3.0	--	--
LSD '@ .10'	--	320.2	310.0	338.4	1.9	--	--
Average	--	3961.3	3674.3	3236.2	46.7	31.6	171.7
Highest	--	4495.3	4381.5	4016.0	59.9	39.3	174.5
Lowest	--	3343.7	3238.8	2672.0	42.3	23.3	167.0

ANATONE SPRING BARLEY – 2006 WSU VARIETY TESTING DATA

1. 2006 Spring Barley **yield data** from the WSU Variety Testing nursery at the Anatone location averaged 3236.2 lbs/ac that were lower than the 3-year average yield by about 18% (725 lbs/ac). Some of the higher yield varieties/experimental lines averaged a little over 1.75 tons per acre compared to historical yields of higher producing varieties that are normally in the 2.0-2.25 ton/ac range. Yields lower than historical averages are undoubtedly a function of the weather patterns and it appears that heat stress had an impact on both tiller and kernel development since, on average, the barley was light (46.7 lbs/bu test weight). This nursery was planted on re-crop ground on 27 April 2006. *NOTE: This nursery was also located approximately 8 miles SE of Anatone, WA on Savage RD (J. Johnson farm).*
2. As mentioned above, **TEST WEIGHT** average values were 46.7 lbs/bu; however, six of the eight highest yielding varieties had test weight values 48#/bu or higher. There appeared to be a strong trend of lower test weight values yields associated with lower yields.
3. **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 55.2 lbs/bu and 59.9 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.
4. In general, variety **YIELD RANKINGS** continue to keep Baroness close to the top; however, newer varieties/experimental lines seem to be nudging Baroness slightly. In most cases the yields of the higher ranking varieties were still statistically equal to Baroness except for the highest yielding line (YU-501-385D) that has Baroness in its pedigree.