

2007 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT ANATONE, WA.

Variety Name <small>*Club Italized</small>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2007					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
ROD	94.3	93.6	87.4	81.3	57.3	11.3	0	31.0	166.9
XERPHA		94.7	87.7	79.3	57.3	12.7	0	31.5	166.1
ROD/TUBBS				78.9	56.7	12.1	0	31.8	163.9
ELTAN/TUBBS				78.7	57.4	13.0	0	33.5	163.5
ORCF-102		94.1	89.2	76.5	59.5	11.2	0	32.3	162.4
CODA	89.3	90.5	86.4	76.2	61.0	12.6	0	32.3	165.4
WA007934	88.4	86.1	82.1	75.8	57.6	12.4	0	30.5	169.1
MJ-9	94.0	91.9	85.5	74.7	56.7	12.7	0	31.3	163.5
MASAMI	94.0	89.5	79.0	74.3	56.3	13.1	0	31.3	167.3
WA008020				73.7	56.4	12.9	0	29.0	169.9
SALUTE				73.3	56.5	12.2	0	31.3	162.4
ID990435			81.4	73.2	59.1	12.0	0	35.5	160.5
ORCF-101	86.6	89.1	81.0	72.3	58.1	12.1	0	31.8	163.1
ELTAN	86.5	84.7	81.5	71.9	59.5	12.2	0	32.0	167.3
RJAMES		93.0	83.8	71.7	57.6	11.9	0	28.5	166.9
AP 700 CL				71.5	59.2	12.2	0	31.5	161.6
ELTAN/MADSEN				71.3	58.1	12.8	0	31.3	166.5
BU6W99-456			78.2	70.7	61.4	12.7	0	28.5	160.1
MOHLER	88.3	90.3	80.9	70.2	58.6	12.0	0	31.8	162.8
BU6W00-523			82.2	70.1	59.8	12.7	0	31.3	161.6
TUBBS	90.6	90.4	78.1	69.6	57.1	11.5	0	31.8	163.1
FINCH	87.0	86.1	77.7	68.8	59.2	12.5	0	30.3	169.5
ORI2042037				68.8	56.9	12.9	0	29.8	166.5
BZ6WM02-1020			80.4	67.9	59.1	12.2	0	30.3	165.8
9364901A				67.3	57.5	11.9	0	30.3	164.3
STEPHENS	83.5	81.6	74.4	66.2	57.1	12.0	0	29.3	160.9
SIMON	79.9	87.7	81.3	65.7	58.0	12.3	0	32.0	162.4
IDAHO 587	85.1	83.1	73.3	65.4	59.5	12.1	0	28.5	161.6
9222407A			80.8	65.3	60.3	11.9	0	33.5	164.6
ID02-859				65.3	56.1	13.1	0	30.0	163.1
MADSEN	83.1	85.9	77.4	64.4	57.7	13.1	0	32.0	165.0
CARA		74.4	64.4	63.6	56.1	12.6	0	27.8	167.3
LAMBERT	80.1	85.8	76.3	63.5	57.3	12.7	0	32.5	160.5
GEORGE		83.8	79.1	63.4	58.2	12.2	0	31.0	169.5
TUBBS 06			73.5	62.6	57.1	12.5	0	33.0	163.9
MADSEN/ROD			79.8	61.9	57.3	12.5	0	30.5	165.0
BRUEHL	84.0	85.8	73.0	61.6	54.5	13.5	0	30.8	168.4
BRUNDAGE 96	83.6	83.8	71.2	61.3	56.3	12.0	0	27.8	162.4
WB 528	88.0	88.7	78.4	61.1	60.9	13.0	0	29.8	160.1
CHUKAR	83.8	77.3	68.6	61.0	55.0	13.5	0	28.0	168.8
WA008000			73.8	60.2	58.0	12.5	0	30.8	166.1
CASHUP	85.6	82.1	72.4	59.5	60.2	12.1	0	28.8	165.4
RELY	84.1	81.3	71.5	59.4	58.9	13.2	0	29.8	165.4
EDWIN	82.3	76.0	66.6	59.3	59.9	13.5	0	29.0	165.4
WA008021				59.1	56.9	13.9	0	30.0	167.6
MJ-4	79.2	82.8	73.0	58.8	56.2	13.1	0	29.5	167.6
ARS00235	77.2	77.1	68.3	58.6	59.5	13.0	0	31.3	166.5
ARSC96059-1		79.5	68.7	58.4	60.6	12.9	0	31.5	164.3
CONCEPT		82.2	73.8	58.2	59.7	12.9	0	28.5	164.6
ARS970278-2				52.0	56.8	13.9	0	28.0	163.1
C.V. %	10.0	9.9	10.3	11.4	1.8	7.7	--	--	--
LSD '@ .10'	4.4	5.5	6.5	9.0	1.2	1.1	--	--	--
Average	85.8	85.6	77.5	67.3	58.0	12.6	0	30.7	164.8
Highest	94.3	94.7	89.2	81.3	61.4	13.9	0	35.5	169.9
Lowest	77.2	74.4	64.4	52.0	54.5	11.2	0	27.8	160.1

ANATONE SOFT WHITE WINTER WHEAT – 2007 WSU VARIETY TESTING DATA

1. 2007 Soft White Winter Wheat **YIELD DATA** from the WSU Variety Testing nursery at the Anatone location averaged 67.3 bu/ac; about 20% below normal 3-yr average yields. *NOTE: The Anatone nursery was located about 8 miles south of Anatone, WA (J. Johnson farm).*
2. This nursery was **seeded** on 3 October 2006 on summer fallow ground using a double disc plot drill (6-in opener spacing) at a seeding rate of 85# per acre. The base fertilizer rate was 80#N and 12#S. The nursery had somewhat uneven emergence due to dry fall growing conditions and plants were only at a one-tiller stage of growth going into the winter (1 November 2006 field observation). In general, the cold snaps at the end of October 2006 and the 10-day cold-snap in mid-January (11-21 Jan 2007) had minimal winter injury impact and the stand was fairly even coming out of winter probably as a result of above normal precipitation during November 2006.
3. **Yield differences** had a range of 52.0 to 81.3 bushels per acre; however, many varieties/lines had yields that were grouped very closely together and not statistically different (LSD @0.10 was 9.0 bu/ac).
4. For those of you that continue to read these narratives it is appearing that reduced **plant height** in the 2007 nurseries compared to previous years is somewhat correlated to lower yield averages. This is just a preliminary observation; however, at many of the winter wheat locations harvested to date, 2007 winter wheat plant heights are 2-3 inches shorter than the previous year. This follows a trend in the 2005 crop where above average yields were accompanied with above average plant height. The reduced plant height (and yields) can probably be attributed to below normal precipitation (2-3 inches below normal), cold, dry spring growing conditions from (March-May) and heat stress during the first part of June 2007.
5. Wheat quality in terms of **test weight** averaged 58.0 lbs/bu, slightly lower than average for the majority of varieties as a function of June 2007 heat stress during grain fill coupled with below normal spring precipitation that left crowns and roots in very dry soil during kernel development and fill.
6. **Percent grain protein** averaged 12.6% and appears to be associated with test weight values.