

2007 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT REARDAN, 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
LAMBERT	103.5	103.6	100.3	87.9	59.8	12.8	0	34.3	162.6
BRUNDAGE 96	101.7	104.2	102.5	87.2	58.0	13.1	0	31.5	161.9
ELTAN/MADSEN				85.9	59.8	13.4	0	31.4	164.2
ORI2042037				84.7	58.8	13.6	0	29.3	164.1
ID02-859				83.6	56.0	13.8	0	30.5	163.4
XERPHA		108.0	101.6	83.5	58.5	13.2	0	31.0	165.6
ARS970278-2				82.7	59.9	13.3	0	31.7	164.9
BU6W00-523			92.5	82.5	61.1	13.7	0	32.0	160.8
ROD/TUBBS				82.4	58.5	12.9	0	32.4	163.2
GEORGE		104.1	101.7	82.3	58.5	13.8	0	31.0	167.1
ID990435			92.4	82.0	59.5	13.2	0	34.8	160.4
MJ-9	105.2	100.7	98.2	81.6	57.8	13.8	0	30.8	162.3
9364901A				81.5	59.8	12.7	0	31.5	164.5
CONCEPT		101.9	99.3	81.1	61.0	13.8	0	30.8	161.9
SALUTE				81.1	57.6	13.2	0	30.5	161.5
ELTAN/TUBBS				80.9	59.0	13.3	0	31.8	161.7
RELY	97.8	93.1	93.5	80.4	60.6	13.3	0	32.1	163.7
WA008021				80.4	58.8	13.2	0	31.5	166.8
MADSEN	98.0	95.0	90.1	79.9	59.2	13.7	0	32.0	164.9
ORCF-102		96.3	93.0	78.9	59.7	13.4	0	31.8	161.9
TUBBS 06			86.9	78.9	57.9	13.4	0	34.5	162.3
MADSEN/ROD			87.7	78.8	58.5	13.5	0	32.3	164.1
MJ-4	104.0	101.2	96.5	78.1	56.2	13.9	0	30.5	165.3
SIMON	91.5	89.0	82.4	78.0	59.2	13.4	0	32.5	162.3
MASAMI	103.5	97.9	93.3	77.9	58.8	12.9	0	29.5	166.8
ORCF-101	89.2	83.9	78.9	77.7	57.9	13.9	0	32.5	161.5
WA007934	105.6	102.7	100.0	77.4	59.5	13.1	0	29.5	166.8
FINCH	102.5	99.2	91.5	77.3	60.4	13.5	0	33.0	166.8
CASHUP	98.2	96.1	91.1	77.3	60.7	13.7	0	28.7	164.1
9222407A			89.1	76.0	59.9	13.0	0	32.5	165.3
TUBBS	100.6	91.4	89.7	76.0	56.8	13.5	0	33.5	163.4
ROD	104.1	98.7	94.2	75.6	57.5	13.5	0	29.1	165.2
CODA	103.0	99.4	95.9	75.3	61.0	13.9	0	32.4	164.2
WA008020				75.3	56.8	13.7	0	28.5	165.6
CHUKAR	106.4	100.7	95.8	74.9	57.5	13.6	0	27.1	167.2
WA008000			88.1	74.8	59.7	12.8	0	32.3	163.8
ARSC96059-1		99.3	89.5	74.6	61.0	14.3	0	33.8	164.2
AP 700 CL				74.6	58.4	13.5	0	31.0	161.1
ELTAN	105.0	102.1	95.9	74.5	59.9	13.3	0	30.1	166.7
CARA		96.3	85.2	73.9	56.5	13.9	0	28.4	166.2
BZ6WM02-1020			83.5	73.9	59.5	13.3	0	29.3	165.3
STEPHENS	90.0	81.6	77.5	73.8	59.3	13.1	0	30.5	161.5
BRUEHL	98.9	93.8	86.9	73.7	57.4	14.1	0	29.1	166.7
WB 528	85.9	79.8	83.0	73.7	61.3	14.0	0	30.3	160.0
EDWIN	95.0	87.2	89.8	73.0	60.8	13.9	0	33.4	163.7
ARS00235	101.4	96.9	90.5	72.8	60.2	13.7	0	34.0	164.5
RJAMES		96.3	88.3	71.7	58.0	12.8	0	27.8	164.9
MOHLER	92.0	85.1	79.0	70.8	59.8	13.3	0	32.8	161.5
BU6W99-456			80.2	69.2	61.3	14.9	0	29.5	160.0
IDAHO 587	89.0	82.4	74.6	62.0	58.3	13.7	0	29.3	161.5
C.V. %	9.3	9.7	9.9	10.6	1.6	2.8	--	--	--
LSD '@ .10'	4.7	6.1	7.3	9.7	1.1	0.4	--	--	--
Average	98.8	95.7	90.5	77.8	59.0	13.5	0	31.2	163.8
Highest	106.4	108.0	102.5	87.9	61.3	14.9	0	34.8	167.2
Lowest	85.9	79.8	74.6	62.0	56.0	12.7	0	27.1	160.0

REARDAN 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 Reardan location averaged 77.8 bu/ac that is about 24.3% less than the historical 3-yr yield averages at this location. *NOTE: The Reardan nursery was located five miles west of Reardan, WA (H. Johnson farm) off SR 2 and north on Janett Road (adjacent the Old State Highway Rd)..*
2. This nursery was **re-crop seeded** on 27 September 2006 following spring safflower using a plot drill with double disc openers, 6-inch spacing, into soil moisture that was about 1-inch below the surface at a seeding rate of 85#/acre. The base fertilizer rate was 80#N and 5#S with starter fertilizer at (16#N, 20#P, 12#S).
3. In general, the cold snap at the end of October 2006 and the 10-day cold-snap in mid-January (11-21 Jan 2007) had minimal winter injury impact. This nursery had fair emergence and was about 1-2 tiller stage on a 24 Oct 2006 field evaluation. The nursery also had quite a struggle coming out of the winter with frozen ground about 4-inches below the soil surface that prevented surface snow melt and rain from moving into the ground leaving many plants sitting in ice-cold water for an extended period of time (see picture taken on 14 Feb 2007 – attached). These conditions coupled with the extended 3-month period of below normal precipitation probably contributed to yields lower than historical averages.
4. **Yields** among many varieties/lines were grouped very closely together noting that the statistical LSD (least significant difference) at the 90% confidence level was 9.7 bu/ac.
5. Wheat quality in terms of **test weight** averaged 59.3 lbs/bu, not quite as good as the hard winter nursery.
6. **Percent grain protein** had a was fairly high with a range of 12.7% to14.9% with an average of 13.7%. Invariably, the cause of higher protein was a fertility program that targeted 100 bu/ac production but production averaged 24% (77.8 bu/ac) less than estimated. This favored grain protein levels in the hard winter nurseries but was a disadvantage in the soft white winter nursery.

