

# 2007 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT ALMIRA, 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
XERPHA		138.1	146.3	136.0	55.4	13.3	0.0	43.0	153.4
BU6W99-456			129.1	135.9	60.1	14.1	0.0	38.8	147.8
LAMBERT	120.3	129.5	138.1	135.7	55.6	13.8	2.5	45.3	150.4
WB 528	116.7	125.8	133.1	131.9	59.0	13.2	2.5	40.5	147.8
ID990435			130.5	130.7	56.1	14.0	2.5	45.3	148.5
AP 700 CL				129.9	54.9	14.7	0.0	41.3	149.3
9364901A				127.2	57.2	13.3	2.5	43.3	153.4
SALUTE				126.5	54.4	13.9	2.5	40.5	150.4
CARA		123.1	131.0	125.7	54.2	14.2	0.0	39.0	152.6
BU6W00-523			128.0	125.5	56.1	13.9	0.0	42.5	148.9
IDAHO 587	113.3	121.8	127.7	122.9	55.7	14.6	0.0	36.8	149.3
RELY	116.6	124.2	131.8	122.8	57.6	13.6	42.5	41.8	152.6
BRUNDAGE 96	113.1	120.4	129.6	122.6	55.4	14.1	0.0	43.3	150.0
MOHLER	117.1	124.5	129.0	120.9	55.1	14.2	0.0	44.0	150.8
ROD	122.4	130.1	136.4	120.5	54.0	13.8	0.0	39.3	152.6
ORCF-101	102.8	115.6	119.0	120.3	57.2	13.5	0.0	38.3	148.5
MADSEN	108.6	115.6	126.2	119.9	56.7	14.5	0.0	42.3	152.3
CHUKAR	117.3	123.3	127.8	119.1	54.9	14.4	0.0	41.0	153.0
SIMON	110.4	118.2	126.5	119.1	56.9	13.7	0.0	43.0	151.9
ROD/TUBBS				118.4	54.2	14.3	0.0	43.0	150.4
ARS970278-2				118.3	56.4	14.6	27.5	42.3	152.6
TUBBS	124.7	129.2	135.0	116.8	53.7	14.3	0.0	42.3	149.6
TUBBS 06			133.6	116.6	53.4	14.3	0.0	44.0	149.6
STEPHENS	108.3	118.5	124.3	115.0	52.6	14.9	0.0	40.3	147.4
ID02-859				114.3	53.7	14.6	0.0	39.8	151.5
MADSEN/ROD			128.1	113.9	54.7	14.4	0.0	41.3	152.6
RJAMES		125.1	134.6	113.6	52.4	13.8	20.0	37.3	152.3
WA008021				112.9	55.4	14.5	0.0	42.8	153.0
9222407A			125.9	112.6	57.8	13.5	0.0	44.8	153.8
WA008020				112.6	54.2	14.8	0.0	40.8	154.9
ELTAN/TUBBS				112.6	53.9	14.9	0.0	43.0	149.6
WA007934	116.1	123.0	132.1	112.5	54.7	14.5	2.5	44.0	154.9
WA008000			127.1	112.2	56.6	14.2	0.0	44.8	153.4
BZ6WM02-1020			118.8	109.4	53.9	14.2	0.0	40.0	153.4
EDWIN	103.1	105.8	118.2	108.8	58.6	14.6	68.8	43.5	152.6
ARSC96059-1		120.1	121.2	108.4	56.7	14.7	0.0	41.5	151.9
CASHUP	108.6	116.8	120.9	108.4	55.8	13.9	0.0	38.3	152.6
ORCF-102		117.5	123.5	106.3	55.5	14.9	0.0	45.0	148.9
FINCH	113.3	117.5	120.2	103.6	55.7	15.2	16.3	41.5	154.5
CODA	106.0	113.7	120.6	103.3	57.3	14.9	30.0	40.8	153.0
CONCEPT		116.1	116.2	103.2	54.9	14.0	3.8	39.3	153.4
BRUEHL	113.6	118.6	123.4	100.9	49.5	15.3	3.8	41.8	154.5
ORI2042037				100.1	53.1	15.2	0.0	41.8	153.8
MJ-4	103.2	110.9	117.6	98.5	51.4	14.6	0.0	39.0	154.9
MASAMI	114.7	121.1	124.1	98.4	52.5	14.8	0.0	41.8	154.5
ELTAN	114.3	115.2	124.7	98.3	54.1	15.1	23.8	42.0	154.5
MJ-9	108.4	112.8	119.8	97.1	50.9	14.3	3.8	39.3	152.3
ELTAN/MADSEN				95.2	54.6	15.0	0.0	43.0	151.5
ARS00235	108.3	111.7	113.8	91.3	54.6	14.8	51.3	41.8	153.8
GEORGE		110.7	118.7	90.6	53.5	14.4	30.0	43.8	154.9
C.V. %	8.2	8.0	7.8	8.9	2.7	4.5	--	--	--
LSD '@ .10'	4.9	6.5	8.0	11.8	1.7	0.8	--	--	--
Average	112.6	119.8	126.5	114.3	55.1	14.3	6.7	41.7	151.9
Highest	124.7	138.1	146.3	136.0	60.1	15.3	68.8	45.3	154.9
Lowest	102.8	105.8	113.8	90.6	49.5	13.2	0.0	36.8	147.4

## ALMIRA 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 Almira location averaged 114.3 bu/ac that is about 5.0% less than the historical 3-yr yield averages at this location. *NOTE: The Almira nursery was located 10 miles north of Almira, WA on Sorensen Rd (D. McKay farm).*
2. This nursery was **seeded** at the same time as the hard winter nursery on 12 September 2006 on ground following a 2006 buckwheat crop using a plot drill with hoe openers, 9-inch spacing, into good soil moisture that was about 2-inches below the surface at a seeding rate of 85#/acre. A March 2007 soil test analyses showed 307#N, 27#P and 17#S in a 4-foot soil profile. Much of this was residual fertilizer from the previous buckwheat crop. In addition, the soil profile showed 9.86 inches of moisture in the top 4-feet in March which contributed significantly to the yields at this location in spite of below normal precipitation during spring 2007.
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. In fact, this nursery had excellent emergence and had good recovery from early spring (March 2007) field evaluations.
4. **Average yield** range was 90.6 bu/ac to 136.0 bu/ac and the highest yielding varieties were comparable to average yields for the highest yielding varieties in the hard winter wheat nursery. It appears that ample soil moisture and high fertility levels contributed to higher yields. Average plant height in this nursery was also above normal indicating a strong relationship to soil moisture and nutrient availability. In contrast to many other locations harvested this year, spring environmental patterns appeared to favor plants with earlier growth habits compared to later maturing varieties such as Eltan or varieties with Eltan pedigrees. In general, yield rankings followed historical 3-yr trends.
5. Wheat quality in terms of **test weight** was very low at this location with an average test weight value of 55.1 lbs/bu and most of the kernels were pinched. There was quite a range of test weight values among varieties from 49.5 to 60.1 lbs/bu.
6. **Percent grain protein** had averaged of 14.3% that was probably associated with heat stress periods during kernel fill.