

2007 WSU EXTENSION HARD WINTER WHEAT NURSERY AT ALMIRA, WA.

Variety Name *HDWH Italized	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
IDO621	--		142.0	138.4	60.1	12.7	6.3	41.5	148.6
BOUNDARY	--	119.8	130.4	127.4	58.7	13.1	0.0	40.0	149.8
TX97F4-33-1B	--			124.6	59.2	12.9	38.8	41.5	145.6
ORN00B553	--		118.0	122.2	56.7	13.4	0.0	34.5	148.3
W98-344	--	109.4	118.5	120.3	56.7	13.9	0.0	41.0	144.9
<i>PALOMINO</i>	--		115.1	118.8	56.7	14.7	0.0	37.5	145.3
ACS 52035	--			118.6	60.2	13.8	2.5	47.5	150.5
ACS 52025	--			118.4	58.2	13.0	50.0	40.5	147.1
BZ9W02-2032	--			116.6	57.1	13.5	30.0	42.5	144.9
EDDY	--	107.6	114.7	116.3	60.7	13.4	0.0	41.3	146.8
<i>OR2052046H</i>	--			115.7	56.1	13.1	0.0	37.8	149.0
WA008023	--			113.8	56.4	13.0	63.8	44.3	150.5
AGRIPRO PALADIN	--	106.9	113.0	112.9	57.6	13.9	0.0	40.0	148.6
WA007976	--	122.6	122.2	110.2	58.6	13.7	53.8	42.3	150.5
<i>MDM</i>	--	111.9	120.3	104.9	55.5	13.2	50.0	45.3	152.0
HATTON	--	73.1	81.2	99.9	60.8	13.5	73.8	48.0	149.8
JUNIPER	--		103.6	99.4	58.5	14.3	58.8	53.8	149.8
WA008003	--		115.9	98.1	58.1	14.0	72.5	48.8	151.3
BAUERMEISTER	--	107.5	109.1	96.8	51.8	14.5	16.3	44.3	151.6
ELTAN	--	106.8	115.4	94.5	52.4	13.9	31.3	44.3	152.0
WA008024	--			93.6	57.2	13.2	33.8	43.5	150.9
DECLO	--			92.9	56.6	14.2	0.0	38.5	149.0
FINLEY	--		99.2	92.1	60.1	13.4	86.3	47.8	149.0
<i>WA008019</i>	--		92.7	91.7	57.7	13.5	93.5	49.0	149.4
<i>WA008025</i>	--			89.6	56.2	13.5	33.8	42.8	150.9
<i>UI DARWIN</i>	--		97.9	89.5	58.1	13.9	50.0	47.5	150.1
WA008022	--			83.4	56.9	13.7	94.5	47.3	150.1
WA007975	--	96.4	99.0	81.7	57.9	14.4	63.5	45.8	151.6
FINEWAY	--			72.4	57.6	14.1	77.5	50.8	150.9
C.V. %	--	11.7	11.2	12.9	2.4	3.9	--	--	--
LSD '@ .10'	--	8.4	10.1	16.0	1.6	0.6	--	--	--
Average	--	106.2	111.6	105.3	57.5	13.6	37.3	43.8	149.3
Highest	--	122.6	142.0	138.4	60.8	14.7	94.5	53.8	152.0
Lowest	--	73.1	81.2	72.4	51.8	12.7	0.0	34.5	144.9

ALMIRA HARD WINTER WHEAT – 2007 WSU VARIETY TESTING DATA

1. 2007 Hard Winter Wheat **YIELD DATA** from the WSU Variety Testing nursery at the Almira location averaged 105.3 bu/ac that calculates to be nearly equal to a historical 3-yr average yield. *NOTE: The Almira nursery was located 10 miles north of Almira, WA on Sorensen Rd (D. McKay farm).*
2. This nursery was **seeded** 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. **Stripe rust** noted on a 30 May 2007 field evaluation and susceptible varieties exhibited symptoms through June 2007; however, the levels of infection did not appear to contribute to significant yield differences among varieties.
5. **Average yield** range was 72.4 bu/ac to 138.4 bu/ac and the highest yielding varieties were comparable to average yields for the highest yielding varieties in the soft white winter wheat nursery. It appears that ample soil moisture and high fertility levels contributed to higher yields. Average plant height in this nursery was above normal indicating a strong relationship to soil moisture and nutrient availability. There also appears to be a fairly strong correlation to lower yields with **high percent of lodging**. In fact, 7 out of 8 of the lowest yielding varieties had 50% lodging or greater.
6. Wheat quality in terms of **test weight** was low at this location with an average test weight value of 57.5 lbs/bu and most of the kernels were pinched. There was quite a range of test weight values among varieties from 51.8 to 60.8 lbs/bu. A late variety such as Eltan (included as a check variety) only had a test weight of 52.4 lbs/bu. This is undoubtedly due to the June/July heat stress during kernel fill
7. **Percent grain protein** had a range of 12.7% to 14.7% with an average of 13.6%.