

**2007 WSU EXTENSION HARD WINTER WHEAT NURSERY AT REARDAN, WA.**

Variety Name <i>*HDWH Italized</i>	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
WA007976	--	--	--	92.4	61.5	12.3	0	37.8	163.0
BOUNDARY	--	--	--	92.2	60.5	13.1	0	32.5	165.3
<i>MDM</i>	--	--	--	90.5	61.0	12.3	0	33.3	166.8
ACS 52025	--	--	--	90.2	61.7	13.2	0	35.8	159.3
BAUERMEISTER	--	--	--	87.7	61.3	12.4	0	35.8	165.6
ELTAN	--	--	--	87.5	60.2	12.3	0	33.5	167.1
IDO621	--	--	--	83.9	60.7	13.2	0	31.0	161.5
WA008023	--	--	--	83.8	59.7	13.2	0	39.0	164.5
HATTON	--	--	--	82.2	63.3	12.9	0	41.3	163.8
WA008022	--	--	--	81.6	60.4	12.5	0	40.8	162.6
WA008024	--	--	--	81.1	60.2	12.9	0	36.0	164.9
BZ9W02-2032	--	--	--	80.4	61.8	13.6	0	33.3	156.6
WA008003	--	--	--	79.8	61.3	12.6	0	40.0	163.4
W98-344	--	--	--	79.2	62.3	13.6	0	33.0	157.0
<i>OR2052046H</i>	--	--	--	78.7	63.1	12.1	0	32.3	161.9
EDDY	--	--	--	78.5	62.3	13.3	0	33.0	161.5
TX97F4-33-1B	--	--	--	78.3	62.6	12.8	0	30.0	156.6
ACS 52035	--	--	--	78.2	61.1	14.2	0	40.0	161.1
ORN00B553	--	--	--	77.2	61.6	13.5	0	30.5	163.0
FINLEY	--	--	--	75.9	62.6	13.2	0	43.0	157.8
WA007975	--	--	--	74.7	59.2	13.4	0	39.8	168.6
<i>PALOMINO</i>	--	--	--	74.1	62.1	13.8	0	31.3	158.5
<i>UIDARWIN</i>	--	--	--	73.3	63.1	13.2	0	40.0	160.0
JUNIPER	--	--	--	72.0	61.4	13.7	0	44.3	160.0
AGRIPRO PALADIN	--	--	--	71.0	62.1	13.8	0	32.3	159.6
<i>WA008019</i>	--	--	--	69.3	63.0	12.8	0	39.8	160.8
FINEWAY	--	--	--	68.4	61.5	13.2	0	42.5	160.4
DECLO	--	--	--	66.2	60.5	13.9	0	29.3	164.5
<i>WA008025</i>	--	--	--	60.4	60.5	12.9	0	26.8	167.5
C.V. %	--	--	--	6.1	0.7	2.4	--	--	--
LSD '@ .10'	--	--	--	5.7	0.5	0.4	--	--	--
Average	--	--	--	78.9	61.5	13.1	0	35.8	162.2
Highest	--	--	--	92.4	63.3	14.2	0	44.3	168.6
Lowest	--	--	--	60.4	59.2	12.1	0	26.8	156.6

## REARDAN HARD WINTER WHEAT – 2007 WSU VARIETY TESTING DATA

1. 2007 Hard Winter Wheat **YIELD DATA** from the WSU Variety Testing nursery at the Reardan location averaged 78.9 bu/ac. This was the first year that a hard winter nursery was established at the Reardan 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). March 2007 soil test analyses showed 296#N, 20#P and 11#S in a 4-foot soil profile and no additional fertilizer was applied.
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). In spite of these conditions the nursery recovered during the growing season.
4. Average yields were nearly identical to the average yields in the soft white winter nursery with a similar range in yields (60.4 to 92.4 bu/ac). Eltan or entries with Eltan pedigrees represented 4 of the 8 highest yielding entries in this nursery which would be expected for this location.
5. Wheat quality in terms of **test weight** was very good at this location with an average test weight value of 61.5 lbs/bu.
6. **Percent grain protein** had a range of 12.1% to 14.2% with an average of 13.1%.