

2007 WSU EXTENSION HARD WINTER WHEAT NURSERY AT DAYTON, 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
ACS 52025	--	--	--	153.0	62.5	11.7	0.0	35.5	146.8
WA008023	--	--	--	134.6	60.7	12.0	0.0	37.5	151.6
WA007976	--	--	--	130.5	62.5	11.5	0.0	40.3	152.0
ELTAN	--	--	--	127.8	62.0	11.0	0.0	38.5	154.3
BAUERMEISTER	--	--	--	124.3	62.3	11.6	0.0	37.3	152.4
<i>MDM</i>	--	--	--	123.1	62.7	11.0	0.0	37.5	153.9
<i>OR2052046H</i>	--	--	--	121.5	63.3	10.6	0.0	32.0	150.9
ACS 52035	--	--	--	119.3	62.6	12.8	0.0	44.5	150.9
TX97F4-33-1B	--	--	--	118.7	63.8	11.2	0.0	33.5	142.6
WA008022	--	--	--	117.6	61.1	11.8	68.8	41.5	150.9
W98-344	--	--	--	117.2	62.8	12.3	0.0	34.5	144.1
BOUNDARY	--	--	--	117.1	61.5	12.4	0.0	33.0	149.4
BZ9W02-2032	--	--	--	115.9	62.6	12.2	0.0	34.5	142.3
WA008024	--	--	--	115.5	61.9	11.3	0.0	38.5	152.0
EDDY	--	--	--	113.3	62.6	12.1	0.0	32.5	146.4
WA008003	--	--	--	111.2	62.7	12.1	0.0	40.0	151.6
ORN00B553	--	--	--	110.8	63.1	12.1	0.0	29.8	148.3
HATTON	--	--	--	108.8	63.9	11.7	11.3	39.5	151.3
AGRIPRO PALADIN	--	--	--	108.0	63.0	12.5	0.0	33.3	147.9
IDO621	--	--	--	104.9	61.7	12.2	0.0	31.0	148.6
DECLO	--	--	--	103.2	62.9	12.5	0.0	29.8	149.0
<i>PALOMINO</i>	--	--	--	99.7	62.0	12.5	0.0	31.5	143.4
FINLEY	--	--	--	97.1	62.4	12.4	53.5	42.3	150.1
WA007975	--	--	--	96.7	60.3	12.6	58.8	39.3	152.4
JUNIPER	--	--	--	93.6	61.9	13.4	25.0	43.3	149.0
<i>WA008025</i>	--	--	--	92.3	62.0	11.8	0.0	33.3	153.5
FINEWAY	--	--	--	89.5	62.2	12.6	22.5	42.8	150.5
<i>WA008019</i>	--	--	--	84.9	62.4	12.4	59.5	37.8	149.4
<i>UI DARWIN</i>	--	--	--	80.1	62.7	12.8	0.0	38.0	149.4
C.V. %	--	--	--	11.0	0.8	2.9	--	--	--
LSD '@ .10'	--	--	--	14.4	0.6	0.4	--	--	--
Average	--	--	--	111.4	62.4	12.0	10.3	36.7	149.5
Highest	--	--	--	153.0	63.9	13.4	68.8	44.5	154.3
Lowest	--	--	--	80.1	60.3	10.6	0.0	29.8	142.3

DAYTON HARD WINTER WHEAT – 2007 WSU VARIETY TESTING DATA

1. 2007 Hard Winter Wheat **YIELD DATA** from the WSU Variety Testing nursery at the Dayton location averaged 111.4 bu/ac. This is the first year that a hard winter nursery was established at the Dayton location. *NOTE: The Dayton nursery was located off Kellogg Rd (Bickelhaupt Rd) about 12 miles northwest of Dayton, WA (J. Penner farm).*
2. This nursery was **seeded** on 2 October 2006 on fallow ground using a plot drill with double disc (6-inch spacing) into fair soil moisture that was about 2-inches below the surface at a seeding rate of 85#/acre. The base fertilizer rate was 130#N, 20P, 20#S and 10#Cl). An additional 110#N and 16.5#S was applied in March 2007 to this hard winter nursery.
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 fair emergence and was fairly small going into the winter; however, the stand had good recovery based on March 2007 field evaluations.
4. **Average yield** range was 80.1 bu/ac to 153.0 bu/ac and the highest yielding varieties actually had higher average yields than the highest yielding varieties in the soft white winter nursery. There was a fairly high LSD @0.10 at 14.4 bu/ac that resulted in many of the varieties/lines being statistically comparable at this location.
5. Wheat quality in terms of **test weight** was very high at this location with an average test weight value of 62.4 lbs/bu that was probably a function of late May 2007 heading dates followed by the 2-week period of cool weather in June that allowed this nursery to avoid damage from the late June heat and moisture stress during kernel fill.
6. **Percent grain protein** had a range of 10.6% to 13.4% with an average of 12.0%. Over 90% of the entries equaled or exceeded the 11.5% minimum protein level for the HRW market class.