

2007 WSU EXTENSION HARD WINTER WHEAT NURSERY AT ST. ANDREWS, WA.

Variety Name <small>*HDWH 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
WA007976		66.1	49.8	47.0	58.8	10.8	0	25.8	148.0
FINLEY	56.7		55.7	46.0	61.2	11.8	0	33.5	146.5
ACS 52025				45.7	60.8	11.1	0	29.3	144.6
WA008022				45.4	59.1	11.5	0	31.3	147.6
BOUNDARY	66.9	67.5	57.0	45.0	58.3	12.1	0	25.8	147.3
ELTAN	67.3	71.6	63.5	43.1	58.6	10.8	0	27.3	149.5
WA007975		61.7	52.0	43.0	57.9	12.1	0	31.3	149.1
IDO621			51.8	42.3	58.7	12.3	0	25.0	146.1
JUNIPER			47.2	41.8	60.7	12.0	0	36.3	147.3
TX97F4-33-1B				41.6	61.9	11.0	0	26.8	143.1
<i>OR2052046H</i>				41.3	61.7	9.7	0	24.3	146.5
HATTON	56.9	53.0	48.7	40.4	61.7	12.3	0	30.3	147.3
WA008003			50.6	39.6	59.9	11.5	0	28.8	148.8
<i>MDM</i>	66.9	66.8	54.5	39.1	59.1	11.0	0	26.2	149.5
WA008023				37.5	56.9	11.5	0	25.3	148.0
W98-344		53.1	42.5	37.4	60.6	11.7	0	27.5	142.4
BAUERMEISTER	63.0	60.8	51.9	36.9	58.5	11.6	0	25.9	149.1
EDDY		60.2	46.6	36.2	60.1	12.0	0	24.3	144.3
<i>PALOMINO</i>	52.0		44.8	34.9	60.4	12.2	0	25.6	142.8
<i>WA008019</i>			49.4	33.6	61.1	11.0	0	32.6	146.9
<i>UI DARWIN</i>			44.8	33.5	61.2	11.5	0	29.8	147.6
AGRIPRO PALADIN	49.4	50.3	44.3	33.3	60.9	12.6	0	23.7	146.1
WA008024				32.5	57.9	11.2	0	26.3	148.4
BZ9W02-2032				31.9	60.3	13.0	0	27.8	142.4
<i>WA008025</i>				27.4	59.8	12.0	0	21.0	148.4
ACS 52035				27.1	57.8	13.8	0	27.9	148.0
FINEWAY				24.8	60.6	13.4	0	27.8	148.4
DECLO				23.4	61.6	12.6	0	23.7	146.5
ORN00B553			33.1	20.0	60.5	13.6	0	22.0	145.8
C.V. %	17.0	17.3	19.1	17.9	1.2	7.5	--	--	--
LSD '@ .10'	4.8	6.1	7.2	7.8	0.8	1.0	--	--	--
Average	59.9	61.1	49.3	37.0	59.9	11.9	0	27.4	146.8
Highest	67.3	71.6	63.5	47.0	61.9	13.8	0	36.3	149.5
Lowest	49.4	50.3	33.1	20.0	56.9	9.7	0	21.0	142.4

ST ANDREWS (DOUGLAS COUNTY) HARD WINTER WHEAT – 2007 WSU VARIETY TESTING DATA

1. 2007 Hard Winter Wheat **YIELD DATA** from the WSU Variety Testing nursery at the St Andrews (Douglas County) location averaged 37.0 bu/ac that was 38.8% below a previous 5-year historical average (60.5 bu/ac). *NOTE: The St Andrews nursery was located 5 miles northwest of Coulee City, WA off Highway 2 on the St. Andrews South Road NE (L. Tanneberg farm).*
2. This nursery was **seeded** on 6 September 2006 on summer fallow ground using a deep furrow plot drill with split packer double disc openers into soil moisture that was about 4-inches below the surface at a seeding rate of 45#/acre. The base fertilizer rate was 65#N and 7#S. March 2007 soil test analyses showed 126#N, 19#P and 11#S in a 4-foot soil profile and an additional 69#N and 12#S was applied. 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. However, there was considerable amount of snow mold injury observed on a 19 March 2007 field evaluation. Below normal precipitation coupled with cold soil temperatures also contributed to reduced crown and root development and subsequent tillering during the spring. Overall it appears that below average yields at this location is a function of both snow mold and below average precipitation during the growing season.
3. **Field evaluations** of snow mold damage showed quite a bit of variation among varieties/lines; however varieties/lines with that exhibited snow mold with poorest spring recovery (ACS 52035, Declo and ORNOOB553) had the lowest yield averages in the nursery
4. Wheat quality in terms of **test weight** was good at this location with an average test weight value of 59.9 lbs/bu.
5. **Percent grain protein** had a range of 9.7% to 13.8% and the majority of varieties met or exceeded the 11.5% protein requirement for the HRW market class.