

## 2007 WSU EXTENSION HARD WINTER WHEAT NURSERY AT RITZVILLE, 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
WA008022	--			52.2	61.1	11.7	0	30.8	142.5
ELTAN	--	55.9	58.6	51.6	61.3	11.5	0	26.0	150.0
BOUNDARY	--	57.1	55.7	49.0	61.2	12.3	0	25.8	145.1
WA007976	--	60.8	54.0	47.9	61.6	11.4	0	25.2	145.5
IDO621	--		53.9	47.9	61.4	12.1	0	24.8	142.9
HATTON	--	45.5	49.4	44.2	63.2	12.3	0	28.8	146.0
WA007975	--	51.8	49.9	44.0	59.8	12.4	0	28.8	151.1
WA008024	--			43.7	60.9	12.3	0	26.3	147.0
WA008023	--			43.6	59.7	12.4	0	27.5	147.8
BAUERMEISTER	--	55.7	50.1	43.5	61.3	12.7	0	26.2	148.5
EDDY	--	49.0	46.2	42.7	62.1	13.1	0	25.8	144.8
<i>MDM</i>	--	53.3	52.5	41.0	61.6	12.1	0	25.8	149.6
TX97F4-33-1B	--			40.6	62.6	12.0	0	24.3	141.4
FINLEY	--		45.6	39.6	62.6	12.8	0	31.8	142.9
WA008003	--		47.2	38.8	61.3	12.2	0	26.2	147.0
AGRIPRO PALADIN	--	46.6	42.6	37.6	62.3	13.8	0	25.5	142.5
ACS 52035	--			37.5	61.9	13.4	0	29.8	147.0
<i>OR2052046H</i>	--			36.5	63.4	11.4	0	24.5	144.0
ACS 52025	--			35.6	61.6	13.5	0	26.8	142.9
<i>PALOMINO</i>	--		41.9	35.3	61.0	13.5	0	23.5	142.5
JUNIPER	--		43.2	34.0	62.1	13.8	0	32.5	144.0
ORN00B553	--		42.2	33.0	62.5	13.7	0	24.0	145.5
DECLO	--			32.3	61.8	14.6	0	23.2	146.4
<i>WA008019</i>	--		45.2	31.7	62.7	13.7	0	30.0	142.1
<i>UI DARWIN</i>	--		42.6	31.3	62.2	13.5	0	28.2	140.5
W98-344	--	39.9	39.3	30.7	62.0	13.7	0	25.5	140.3
FINEWAY	--			29.5	61.1	14.0	0	28.3	142.5
<i>WA008025</i>	--			29.0	61.4	13.5	0	20.8	151.9
BZ9W02-2032	--			27.8	61.5	14.2	0	26.5	140.5
C.V. %	--	12.9	13.6	15.6	0.6	5.4	--	--	--
LSD '@ .10'	--	4.1	5.1	7.2	0.5	0.8	--	--	--
Average	--	51.6	47.8	39.0	61.7	12.9	0	26.7	145.0
Highest	--	60.8	58.6	52.2	63.4	14.6	0	32.5	151.9
Lowest	--	39.9	39.3	27.8	59.7	11.4	0	20.8	140.3

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

1. 2007 Hard Winter Wheat **YIELD DATA** from the WSU Variety Testing nursery at the Ritzville location averaged 39.0 bu/ac that was 28.3% below the 3-year historical average (54.4 bu/ac). *NOTE: The Ritzville nursery was located eight miles northwest of Ritzville on Dewald Rd (E. Maier farm).*
2. This nursery was **seeded early** on 6 September 2005 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 40#N and 5#S. March 2007 soil test analyses showed 154#N in a 4-foot soil profile and no additional nitrogen 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. It is worth noting that this nursery had a 'struggle' throughout the early spring growing season particularly due to limited precipitation during the March through May. Below normal precipitation during this period coupled with cold soil temperatures greatly reduced crown and root development and subsequent tillering. Overall it appears that below average yields at this location is a function of reduced tillering.
3. **Stripe rust** was not a significant factor in the 2007 nursery even though traces of stripe rust could be observed on susceptible varieties.
4. **Yield differences** had a range of 27.8 to 52.2 bushels per acre. Wheat quality in terms of **test weight** was exceptionally good at this location with an average test weight value of 61.7 lbs/bu.
5. **Percent grain protein** had a range of 11.4-14.6% and all varieties essentially met or exceeded the 11.5% protein requirement for the HRW market class.