

# 2007 WSU EXTENSION IRRIGATED HARD WINTER WHEAT NURSERY AT MOSES LAKE, 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
ACS 52025	--			177.8	62.6	12.5	31.3	37.0	142.5
ML9W05-2506	--			177.3	63.6	12.9	0.0	35.8	142.5
TX97F4-33-1B	--			173.2	64.2	12.5	0.0	36.0	139.5
BOUNDARY	--	162.6	160.8	166.5	61.2	12.9	28.8	38.0	148.5
IDO621	--	156.8	159.7	164.2	61.7	12.9	32.5	35.5	142.5
WA008003	--			163.8	62.5	13.2	12.5	44.0	147.0
BAUERMEISTER	--	133.3	135.5	162.9	58.9	13.2	61.3	40.3	147.0
W98-344	--	148.1	153.9	162.8	62.7	13.5	0.0	36.3	139.5
<i>PALOMINO</i>	--	156.5	152.5	159.1	62.0	13.2	0.0	33.5	144.0
<i>MDM</i>	--	137.1	141.2	157.3	59.2	12.7	75.0	38.3	148.5
EDDY	--	145.5	141.4	156.8	63.0	12.5	6.3	35.3	144.0
BZ9W02-2032	--		147.1	156.2	61.9	13.0	0.0	35.5	139.5
IDO 653	--			154.9	63.4	14.5	37.5	47.3	139.5
STEPHENS	--	147.6	144.5	154.5	60.0	12.4	0.0	34.0	144.0
AGRIPRO PALADIN	--	148.3	146.7	152.1	62.6	12.9	0.0	36.3	142.5
<i>OR2052046H</i>	--			150.2	61.7	11.9	0.0	32.3	145.5
WA007976	--			148.9	61.9	13.6	36.3	42.8	148.5
<i>UI DARWIN</i>	--			146.0	61.9	12.5	52.5	41.8	144.0
IDO 651	--			144.3	61.5	14.2	50.0	49.3	141.0
ORN00B553	--	155.0	142.6	131.8	61.4	13.4	0.0	31.0	147.0
FINEWAY	--			121.0	61.4	13.1	11.3	46.8	145.5
DECLO	--	139.9	129.3	119.2	60.1	13.6	0.0	32.3	148.5
C.V. %	--	8.4	7.6	7.6	1.3	2.8	--	--	--
LSD '@ .10'	--	8.9	9.4	13.8	0.9	0.4	--	--	--
Average	--	148.2	146.3	154.6	61.8	13.1	19.8	38.2	144.1
Highest	--	162.6	160.8	177.8	64.2	14.5	75.0	49.3	148.5
Lowest	--	133.3	129.3	119.2	58.9	11.9	0.0	31.0	139.5

## **MOSES LAKE HARD WINTER WHEAT – 2007 WSU VARIETY TESTING DATA**

1. 2007 Hard Winter Wheat **YIELD DATA** from the WSU Variety Testing nursery at the Moses Lake location averaged 154.6 bu/ac that was slightly higher than the previous historical averages. *NOTE: The Moses Lake nursery was located 12 miles west of Moses Lake on Road 3 NW under a center pivot irrigation system (John Lafave farm).*
2. This nursery was seeded 19 October 2006 following sugar beets. Seeding rate was 85# per acre with a base fertilizer rate of 100#N, 50#P, 50#K and 10#S per acre. An additional 250#N and 32.5#S was applied to the nursery in March 2007. The nursery had even emergence that resulted in a uniform stand. In general, the cold snaps 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, the wheat was very small going into the spring. Timely irrigations during early spring allowed for good recovery of all varieties in the nursery.
3. **Yield differences** among varieties had a range of 119.2 bu/ac to 154.6 bu/ac. Stephens, SWH winter wheat, included in this nursery as a yield “check” variety and performed similar to its historical yield average. Increased interest in hard red winter wheat during 2006 resulted in a high percentage of this nursery containing experimental lines from winter wheat breeding programs that are striving to find new lines that are adapted to this region of the Columbia Basin.
4. **Percent grain protein** averaged 13.1% and all varieties exceeded the 11.5% protein requirement for the HRW market class with the fertilization program that was utilized.
5. Average **Test Weight** value was exceptionally good at 61.8 lb/bu.