2007 WSU EXTENSION HARD WINTER WHEAT NURSERY AT LAMONT, WA.

Variety Name *HDWH Italized	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2007 YIELD (BU/A)	2007 TEST WT (LBS/BU)	2007 PROTEIN (%)	2007 LODGING (%)	2007 PLANT HT	2007 HEAD DATE
WA007976	- -	- -	- -	120.0	61.3	9.5	0.0	40.3	147.5
WA008023	- -	- -	- -	117.5	58.9	10.5	0.0	42.8	147.5
ACS 52025	- -	- -	- -	115.2	61.6	10.1	17.5	39.0	144.1
IDO621	- -	- -	- -	112.2	61.0	10.3	0.0	36.8	145.6
WA008024	- -	- -	- -	111.8	60.1	9.6	0.0	39.8	147.9
ELTAN	- -	- -	- -	111.6	60.0	9.4	3.8	40.3	149.0
MDM	- -	- -	- -	111.1	60.1	9.0	50.0	40.3	149.0
BAUERMEISTER	- -	- -	- -	109.8	61.1	9.8	12.5	39.8	148.6
BZ9W02-2032	- -	- -	- -	109.1	61.1	10.2	2.5	40.3	141.9
W98-344	- -	- -	- -	107.0	62.5	10.1	0.0	37.8	141.9
ACS 52035	- -	- -	- -	105.3	61.9	10.6	0.0	45.0	147.5
DECLO	- -	- -	- -	104.5	61.7	10.9	0.0	32.0	146.0
EDDY	- -	- -	- -	103.2	61.7	10.9	0.0	35.0	143.8
TX97F4-33-1B	- -	- -	- -	99.1	62.1	9.6	22.5	36.3	142.6
WA008003	- -	- -	- -	97.4	61.8	10.2	2.5	43.5	148.3
ORN00B553	- -	- -	- -	97.3	62.1	10.3	0.0	31.8	145.3
BOUNDARY	- -	- -	- -	97.1	59.8	11.0	0.0	35.3	146.8
WA008022	- -	- -	- -	95.7	59.7	10.4	68.5	43.5	147.1
PALOMINO	- -	- -	- -	94.0	61.1	11.2	0.0	33.0	142.3
OR2052046H	- -	- -	- -	93.5	61.3	9.7	0.0	33.5	146.0
HATTON	- -	- -	- -	90.4	62.7	9.5	6.3	43.5	146.8
AGRIPRO PALADIN	- -	- -	- -	90.3	60.7	11.0	0.0	36.5	145.6
WA008025	- -	- -	- -	88.5	60.2	9.4	0.0	34.0	147.9
FINLEY	- -	- -	- -	87.4	62.0	11.1	53.8	46.5	146.0
WA008019	- -	- -	- -	85.4	62.5	11.0	76.0	46.3	146.4
JUNIPER	- -	- -	- -	81.8	61.2	11.1	10.0	51.0	146.8
WA007975	- -	- -	- -	74.2	58.3	10.5	88.8	45.3	148.6
UI DARWIN	- -	- -	- -	73.0	61.2	11.5	26.3	41.5	147.1
FINEWAY	- -	- -	- -	68.2	59.8	11.2	77.5	48.5	147.9
C.V. %	- -	- -	- -	10.7	1.0	6.8	- -	- -	- -
LSD '@ .10'	- -	- -	- -	12.4	0.7	0.8	- -	- -	- -
Average	- -	- -	- -	98.3	61.0	10.3	17.9	40.0	146.3
Highest	- -	- -	- -	120.0	62.7	11.5	88.8	51.0	149.0
Lowest	- -	- -	- -	68.2	58.3	9.0	0.0	31.8	141.9

LAMONT HARD WINTER WHEAT – 2007 WSU VARIETY TESTING DATA

1. 2007 Hard Winter Wheat **YIELD DATA** from the WSU Variety Testing nursery at the Lamont location averaged 93.2 bu/ac. This was the first year that a hard winter nursery was established at the Lamont location. *NOTE: The Lamont nursery was located ten miles south of Lamont, WA (G. White farm) off SR 23 and Old State Hwy road.*
2. This nursery was **seeded** on 7 September 2006 on summer fallow ground using a plot drill with hoe openers, 9-inch spacing, into good soil moisture that was about 2-inches below the surface at a seeding rate of 85#/acre. The base fertilizer rate was 70#N and 10#S. March 2007 soil test analyses showed 202#N, 23#P and 17#S in a 4-foot soil profile and an additional 122#N and 18#S 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. In fact, this nursery had excellent emergence and had good recovery from early spring (March 2007) field evaluations.
4. Average yields for the highest yielding varieties were comparable to average yields in the soft white winter wheat nursery. The below normal 3-month (Mar-May 2007) precipitation period in this intermediate rainfall region seemed to favor later developing Eltan-types, similar to previous locations in the lower rainfall regions where Eltan and/or Eltan crosses showed better yield performance in 2007. At the Lamont location, 6 of the 8 highest yielding varieties had Eltan as part of the pedigree. Wheat quality in terms of **test weight** was very good at this location with and average test weight value of 61.0 lbs/bu.
5. **Percent grain protein** had a range of 9.0% to11.5% with an average of 10.3%. It is speculated that since most of the varieties generally headed about the last week of May 2007 that the cooler weather in mid-June favored kernel fill and development; however, heat stress during the end of June 2007 probably stopped a lot of nitrogen mobilization from the leaves to the kernels thus limiting protein production in the kernels. In addition, with extremely dry soil conditions at the end of June, little moisture/nitrogen mobilization was available from the roots/crowns of the wheat plants.