

2006 WSU EXTENSION HARD WINTER WHEAT NURSERY AT PULLMAN, WA.

Variety Name	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2006					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
WA007976			134.0	161.7	62.0	11.5	36.3	41.3	158.6
ORN00B507				147.9	59.6	11.7	0.0	27.5	156.8
DW	121.5	128.9	124.8	144.1	62.2	11.3	2.5	36.0	159.0
ORN00B553				143.4	61.5	11.9	0.0	28.0	158.3
IDO621				141.8	61.8	11.5	0.0	30.5	158.6
ORN98-0995				141.3	57.0	12.0	0.0	29.0	159.4
WA008002				139.6	63.3	11.3	15.0	41.8	158.6
BOUNDARY	124.7	137.4	137.1	139.3	60.5	12.0	0.0	33.3	159.0
WA008003				139.2	62.9	10.6	3.8	43.3	159.0
ACS 51084				137.6	62.2	11.6	0.0	28.5	155.6
IDO641				137.3	62.3	10.7	3.8	33.0	156.8
MDM		127.9	121.4	136.5	59.6	10.5	70.0	36.0	162.0
WA007975			101.1	136.2	60.1	12.0	65.0	41.3	163.5
WA008004				135.3	62.2	11.2	32.5	37.8	160.1
WA007977			128.0	135.2	60.7	12.1	0.0	42.0	163.5
ELTAN	121.7	128.6	117.2	134.8	59.5	10.1	55.0	34.0	161.6
WA008001				133.7	60.3	11.1	40.0	39.0	160.5
EDDY		127.3	122.1	133.0	63.4	11.8	0.0	30.3	156.0
WESTON	104.3	109.1	96.8	131.7	63.7	12.3	70.0	41.8	155.6
AGRIPRO PALADIN		130.0	123.6	131.4	63.0	12.0	0.0	31.3	156.4
W98-344			132.9	129.9	61.8	12.0	0.0	32.5	153.8
JUNIPER				128.9	62.4	11.8	15.0	45.0	158.6
BUCHANAN	97.3	93.1	90.3	125.3	58.8	10.9	96.3	38.3	163.5
W96-359W				123.8	62.3	12.0	0.0	27.5	155.3
UI DARWIN				123.4	63.3	11.5	20.0	39.3	158.6
WANSER	94.0	102.8	89.1	119.3	62.7	11.5	0.0	42.8	154.1
BAUERMEISTER		109.3	95.6	113.1	58.2	11.6	92.5	34.0	161.6
HATTON	61.1	70.5	64.0	106.9	62.7	11.2	57.5	42.8	156.4
FINLEY	101.9	114.5		106.4	62.8	12.1	88.8	43.3	156.8
ELTAN*2/MACON				96.4	61.6	11.9	96.3	39.3	155.6
C.V. %	10.4	11.7	13.4	12.5	1.1	5.4	--	--	--
LSD '@ .10'	6.2	9.5	13.1	19.4	0.8	0.7	--	--	--
Average	103.3	114.9	111.9	131.8	61.5	11.5	28.7	36.4	158.4
Highest	124.7	137.4	137.1	161.7	63.7	12.3	96.3	45.0	163.5
Lowest	61.1	70.5	64.0	96.4	57.0	10.1	0.0	27.5	153.8

PULLMAN HARD WINTER WHEAT – 2006 WSU VARIETY TESTING DATA

1. 2006 **Hard Winter** Wheat **YIELD DATA** from the WSU Variety Testing nursery at the Pullman, WA location averaged 131.8 bu/ac that was nearly 15% higher than the 3-year historical average (114.9 bu/ac). *NOTE: The Pullman nursery was located 6 miles southwest of Pullman, WA on Sand Rd (N. Druffel & Sons farm). The Soft White Winter and Hard Winter nurseries were co-located.*
2. This nursery was **seeded** on 30 September 2005 on re-crop ground following dry peas into fairly dry soil. Soil moisture was about 5-6-inches below the surface. It rained 1.33 inches in during the 5-days following seeding that resulted in good emergence and a very even and uniform stand.
3. **Stripe rust** was not a significant factor in the 2006 nursery even though stripe rust could be observed on varieties.
4. This nursery survived the hits from the up-and-down weather patterns during the **2005-2006 growing season**. Varieties that showed winter injury at other locations were not hurt at the Pullman location. The late season precipitation and cooler weather during kernel development seemed to enhance test weight values for many varieties.
5. **Yield average rankings** once again tracked fairly closely with historical 3-yr and 5-yr averages. The highest yielding line was an experimental line from WSU (WA7976) is an Estica x Finley cross. A high number of the top yielding varieties in this nursery were experimental lines from public and private wheat breeding programs. The CV% of this nursery was moderate; however the LSD @0.10 is 19.4 bu/ac and as the yield averages reflect, a majority of varieties were grouped closely together and not statistically significant from each other.
6. **Lodging** was slight to moderate in this nursery except for varieties prone to lodging. The four lowest yielding varieties in this nursery also had the highest percent of lodging.
7. Average **Test Weight** value was 61.5 lb/bu reflecting late May precipitation and June rainfall patterns coupled with cool weather that was extremely favorable to kernel development and fill.
8. **Percent grain protein** had a range of 10.1% to 12.3% with over 2/3 of the varieties equaling or exceeding the 11.5% protein requirement for the HRW market class. This nursery was fertilized for an expected yield of 115 bu/ac based on historical estimates and existing soil moisture conditions for the growing season. A calculated nitrogen use rate of 3 pounds of Nitrogen per expected bushel of production was used for fertility management on this nursery