

TABLE 31\_06TW.

## 2006WSU HARD WINTER WHEAT TRIAL SUMMARY

VARIETY NAME	TEST WEIGHT (LBS/BU)							
	ALMIRA	CONNELL	HORSE HEAVEN	PULLMAN	RITZVILLE	ST. ANDREWS	WALLA WALLA	VARIETY MEAN
<b>Hard Red Winter</b>								
WESTON	63.0	63.7	62.3	63.7	62.7	61.9	62.9	62.9
EDDY	64.0	63.7	60.5	63.4	63.2	62.5	62.7	62.9
FINLEY	63.0	64.0	62.3	62.8	62.3	62.2	62.2	62.7
WA008002	63.4	63.4	61.0	63.3	62.4	60.7	62.6	62.4
AGRIPRO PALADIN	63.6	64.1	61.7	63.0	61.9	61.1	61.0	62.3
W98-344	62.9	63.8	61.3	61.8	62.5	61.5	62.2	62.3
HATTON	58.4	64.7	62.9	62.7	63.4	62.2	61.7	62.3
WANSER	59.3	63.9	61.5	62.7	63.0	61.8	62.7	62.1
WA008003	63.2	62.9	61.0	62.9	61.6	60.4	61.6	61.9
DW	62.7	63.2	61.3	62.2	61.9	60.4	61.8	61.9
JUNIPER	62.7	63.3	61.8	62.4	61.7	60.3	61.1	61.9
IDO621	62.9	62.7	60.9	61.8	61.9	61.2	61.2	61.8
BOUNDARY	62.1	62.1	60.0	60.5	61.3	60.3	61.0	61.0
ORN00B553	61.7	63.6	61.6	61.5	61.2	55.5	62.1	61.0
WA007976	61.3	61.8	60.0	62.0	60.8	58.1	61.3	60.8
BUCHANAN	60.1	61.8	60.9	58.8	60.7	57.6	59.8	60.0
WA007975	60.5	60.3	59.7	60.1	59.8	58.2	58.3	59.6
BAUERMEISTER	60.4	61.5	59.1	58.2	60.6	58.3	57.2	59.3
WA008001	60.4	60.7	58.0	60.3	59.1	58.1	58.4	59.3
WA007977	60.1	58.8	57.9	60.7	59.0	57.8	59.9	59.2
ORN98-0995	58.9	59.9	57.7	57.0	57.8	54.7	57.6	57.7
ACS 51084	61.3	62.6	60.6	62.2	59.7	SNOW MOLD	61.2	---
ORN00B507	61.5	62.9	60.1	59.6	59.4	SNOW MOLD	60.8	---
<b>Hard White Winter</b>								
UI DARWIN	63.8	63.9	61.7	63.3	62.7	62.6	62.4	62.9
IDO641	63.3	63.9	61.1	62.3	63.6	62.9	61.8	62.7
ELTAN*2/MACON	64.1	64.2	61.7	61.6	63.1	59.6	62.0	62.3
W96-359W	62.8	62.8	60.4	62.3	62.4	62.4	62.0	62.2
WA008004	62.9	61.3	60.9	62.2	61.1	59.7	59.7	61.1
MDM	61.2	61.5	59.0	59.6	61.2	58.9	59.1	60.1
<b>Soft White Common</b>								
ELTAN	60.4	61.4	59.6	59.5	61.0	58.5	58.7	59.9
<b>STATISTICS</b>								
C.V.	1.0	0.9	0.8	1.1	1.0	2.0	1.6	1.2
LSD	0.8	0.7	0.6	0.8	0.7	1.4	1.3	0.3
Average	61.9	62.6	60.6	61.5	61.4	60.0	60.9	61.3
Highest	64.1	64.7	62.9	63.7	63.6	62.9	62.9	62.9
Lowest	58.4	58.8	57.7	57.0	57.8	54.7	57.2	57.6

TABLE 31\_06PR.

## 2006 WSU HARD WINTER WHEAT TRIAL SUMMARY

VARIETY NAME	PROTEIN (%)							
	ALMIRA	CONNELL	HORSE HEAVEN	PULLMAN	RITZVILLE	ST. ANDREWS	WALLA WALLA	VARIETY MEAN
<b>Hard Red Winter</b>								
WESTON	11.7	13.2	13.8	12.3	13.2	12.2	13.2	12.8
JUNIPER	11.5	12.1	12.5	11.8	13.0	12.0	13.2	12.3
W98-344	11.2	12.7	12.9	12.0	12.6	11.7	12.5	12.2
AGRIPRO PALADIN	11.5	12.2	12.7	12.0	12.9	11.5	12.7	12.2
ORN00B553	11.6	12.4	12.9	11.9	12.8	10.9	12.7	12.2
DW	11.2	12.1	13.0	11.3	12.9	11.2	12.5	12.0
EDDY	11.4	12.0	12.7	11.8	12.4	11.3	12.5	12.0
FINLEY	10.3	12.0	13.5	12.1	12.4	10.9	12.5	12.0
WANSER	10.9	12.2	12.8	11.5	12.3	11.3	12.1	11.9
WA007975	10.4	11.5	12.4	12.0	12.4	10.7	13.5	11.8
WA008002	10.5	11.6	13.0	11.3	12.0	11.1	12.9	11.8
ORN98-0995	10.9	11.4	12.4	12.0	11.8	10.9	12.7	11.7
BAUERMEISTER	10.1	11.8	13.1	11.6	11.8	9.9	13.4	11.7
BOUNDARY	10.8	11.8	11.9	12.0	11.6	10.8	12.5	11.6
WA007977	10.0	11.4	12.0	12.1	11.4	10.6	12.8	11.5
HATTON	11.3	11.7	12.4	11.2	10.8	11.5	11.0	11.4
WA008003	10.5	11.5	11.9	10.6	11.7	10.9	12.5	11.4
IDO621	10.7	11.6	11.6	11.5	11.9	10.0	12.1	11.3
WA008001	10.0	11.4	11.8	11.1	11.7	10.2	12.5	11.2
WA007976	9.4	10.7	11.5	11.5	11.2	10.3	12.4	11.0
BUCHANAN	9.2	10.8	12.1	10.9	11.2	9.4	11.9	10.8
ACS 51084	12.3	12.8	11.9	11.6	13.0	SNOW MOLD	12.8	---
ORN00B507	11.5	12.1	11.9	11.7	12.4	SNOW MOLD	12.0	---
<b>Hard White Winter</b>								
W96-359W	12.2	12.7	13.7	12.0	13.0	11.3	13.1	12.6
UI DARWIN	11.2	11.9	12.8	11.5	12.1	11.8	11.9	11.9
WA008004	10.1	12.4	13.4	11.2	12.0	11.0	12.7	11.8
ELTAN*2/MACON	10.5	11.1	12.2	11.9	11.7	11.3	12.3	11.6
IDO641	10.2	11.2	12.0	10.7	12.0	10.6	11.4	11.2
MDM	8.8	11.2	13.4	10.5	11.8	9.2	12.5	11.1
<b>Soft White Common</b>								
ELTAN	9.3	11.6	12.9	10.1	11.6	9.6	12.2	11.0
<b>STATISTICS</b>								
C.V.	6.4	2.9	4.1	5.4	6.1	9.3	3.0	5.6
LSD	0.8	0.4	0.6	0.7	0.9	1.2	0.5	0.3
Average	10.7	11.8	12.6	11.5	12.1	10.9	12.5	11.7
Highest	12.3	13.2	13.8	12.3	13.2	12.2	13.5	12.8
Lowest	8.8	10.7	11.5	10.1	10.8	9.2	11.0	10.8

TABLE 31\_06YD.

## 2006 WSU HARD WINTER WHEAT TRIAL SUMMARY

VARIETY NAME	YIELD (BU/A)							
	ALMIRA	CONNELL	HORSE HEAVEN	PULLMAN	RITZVILLE	ST. ANDREWS	WALLA WALLA	VARIETY MEAN
<b>Hard Red Winter</b>								
IDO621	145.6	69.5	54.0	141.8	60.0	61.4	142.6	96.4
WA007976	134.2	75.2	51.2	161.7	60.1	52.6	137.7	96.1
BOUNDARY	133.4	72.2	51.3	139.3	62.5	69.1	137.9	95.1
WA007977	127.7	72.7	46.8	135.2	65.0	73.0	124.9	92.2
WA008003	133.8	72.7	50.0	139.2	55.6	61.6	126.3	91.3
ORN98-0995	128.3	60.0	43.5	141.3	54.2	50.1	145.1	88.9
ORN00B553	113.8	60.3	42.3	143.4	51.3	46.3	142.3	85.7
EDDY	113.1	68.3	44.7	133.0	49.8	56.9	133.4	85.6
WA008002	120.4	62.3	45.4	139.6	50.6	52.3	126.1	85.2
WA008001	117.0	67.1	46.6	133.7	52.0	59.6	117.4	84.8
DW	131.2	55.5	42.6	144.1	42.6	56.5	118.0	84.4
AGRIPRO PALADIN	113.1	60.6	42.7	131.4	47.6	55.4	132.1	83.3
WA007975	116.2	69.1	52.1	136.2	55.9	61.0	85.5	82.3
BAUERMEISTER	121.5	66.7	39.3	113.1	56.7	66.9	105.9	81.4
JUNIPER	107.9	63.2	46.9	128.9	52.5	52.6	118.1	81.4
W98-344	116.8	49.1	43.5	129.9	47.9	47.6	127.5	80.3
BUCHANAN	112.4	69.3	47.4	125.3	60.5	61.0	81.5	79.6
FINLEY	106.4	65.1	41.3	106.4	51.6	65.4	108.7	77.8
WESTON	96.8	50.3	41.1	131.7	48.6	66.3	104.2	77.0
WANSER	84.5	63.1	46.1	119.3	43.8	60.3	105.1	74.6
HATTON	62.5	61.2	45.2	106.9	54.7	57.0	89.9	68.2
ACS 51084	62.6	44.8	44.6	137.6	23.9	SNOW MOLD	102.5	---
ORN00B507	87.3	55.1	47.9	147.9	34.1	SNOW MOLD	141.6	---
<b>Hard White Winter</b>								
MDM	135.6	61.7	36.2	136.5	64.1	69.9	125.6	89.9
IDO641	111.7	56.4	44.4	137.3	56.2	68.5	129.8	86.3
W96-359W	111.5	49.0	42.2	123.8	48.5	54.7	131.7	80.2
UI DARWIN	106.3	60.9	43.5	123.4	53.9	56.0	94.3	76.9
WA008004	107.1	57.1	41.1	135.3	43.9	50.8	103.0	76.9
ELTAN*2/MACON	93.8	66.2	47.4	96.4	58.8	65.2	86.8	73.5
<b>Soft White Common</b>								
ELTAN	136.4	64.9	43.6	134.8	65.6	83.8	116.0	92.2
<b>STATISTICS</b>								
C.V.	9.5	7.1	8.1	12.5	11.9	17.4	8.3	11.6
LSD	12.6	5.2	4.3	19.4	7.3	12.3	13.3	4.4
Average	113	62.3	45.1	131.8	52.4	60.0	118.1	83.8
Highest	145.6	75.2	54.0	161.7	65.6	83.8	145.1	96.4
Lowest	62.5	44.8	36.2	96.4	23.9	46.3	81.5	68.2

## **SUMMARY HARD WINTER WHEAT – 2006 WSU VARIETY TESTING DATA**

1. Attached are **SUMMARIES** for yield, test weight and percent grain protein from the seven (7) Hard Winter Wheat (HRW) nurseries in the 2006 Variety Testing Program. The Lind, WA location is not listed in 2006 due to a replication error during planting. A majority of information from the Lind location is listed in the 2005 Variety Testing Data set on the web site (<http://variety.wsu.edu>). Most of the locations listed are within the vicinity of the towns listed. St. Andrews is an area in Douglas County, WA with the plots located approximately 5 miles northwest of Coulee City, WA. Horse Heaven is the region south of Prosser, WA.
2. Obviously, there has been a **high interest** in hard red winter wheat production during the 2006 season due to HRW prices being significantly higher than soft white wheat prices.
  1. August 17, 2006 **Portland cash markets** had:
    1. **Soft white - \$3.97/bu,**
    2. Barley - \$110/ton,
    3. DNS - \$5.35/bu
    4. **HRW - \$5.13/bu**

(Source: T. Reidner, CLD Pacific, Lewiston, ID).
3. **Stripe rust** was not a significant factor in the 2006 nurseries even though stripe rust could be observed on susceptible varieties.
4. **Three new HRW varieties** garnered a lot of interest in 2006: Bauermeister (WSU), Eddy (Westbred, LLC) and AgriPro Paladin (AgriPro). Each of these varieties has stripe rust advantages over existing 'traditional' HRW varieties (Finley, Hatton, Buchanan) as well as production potentials 'outside' the traditional HRW production areas. Other varieties/experimental lines that stood out were: IDO621 (a UI Boundary replacement), Boundary (UI), WA007976 (WSU advanced line), ORN00B553 (OSU advanced line), and W98-344 (AgriPro advanced line). Not included in the 2006 trials, but will be included in the 2007 trials, is Declo that was planted on 19.3% of the acres in Washington State in 2006.
5. Average **Test Weight** value for HRW across all locations was good at 61.2 lb/bu reflecting late May precipitation and June rainfall patterns coupled with cool weather that was extremely favorable to kernel development and fill. **Percent grain protein** had an average of 11.8% that exceeded the 11.5% protein requirement for the HRW market class.
6. Six (6) **Hard White Winter** varieties/experimental lines were also included in the trials and compared favorably to the HRW varieties.
7. **Yield average rank** comparisons can only fairly be judged within a given location. Each of the data sets attached have varieties sorted high-to-low on the **average of the seven locations** that is only calculated to give a quick **snapshot** of all varieties across all locations.