

**2005 VARIETY TESTING
WASHINGTON STATE UNIVERSITY
ALMIRA HARD WINTER WHEAT NURSERY**

VARIETY NAME	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2005 YIELD (BU/A)	2005 TEST WT. (LBS/BU)	2005 PROTEIN (%)
ELTAN	---	---	103.7 (1)	89.7 (17)	60.1	10.1
MDM	---	---	102.7 (2)	95.2 (11)	61.5	10.7
BAUERMEISTER	---	---	100.9 (3)	104.1 (6)	60.7	10.7
BOUNDARY	---	---	97.9 (4)	98.8 (9)	62.5	10.7
WESTON	---	---	96.5 (5)	96.4 (10)	62.7	11.5
DW	---	---	96.1 (6)	107.6 (5)	62.7	11.0
BUCHANAN	---	---	91.4 (7)	81.2 (19)	61.3	11.0
Q. HYB 542	---	---	89.4 (8)	85.2 (18)	62.2	12.0
BZ9W96-788-E	---	---	89.0 (9)	93.5 (13)	62.7	11.9
PALADIN	---	---	88.7 (10)	94.6 (12)	62.5	11.8
RESIDENCE	---	---	88.3 (11)	109.1 (3)	60.7	10.5
MORELAND	---	---	82.7 (12)	73.6 (21)	60.0	11.3
CDC FALCON	---	---	76.9 (13)	67.2 (23)	60.7	10.7
WANSER	---	---	74.8 (14)	71.7 (22)	61.9	10.5
HATTON	---	---	72.5 (15)	56.8 (24)	60.8	10.4
WA7976	---	---	---	123.4 (1)	62.4	10.6
WA7977	---	---	---	118.8 (2)	62.0	10.9
WA7979	---	---	---	107.8 (4)	61.6	10.9
WA7980	---	---	---	100.7 (7)	61.1	11.8
W98-157	---	---	---	99.3 (8)	61.8	11.4
WA7975	---	---	---	91.4 (14)	60.9	11.3
WA7978	---	---	---	91.3 (15)	61.2	11.7
W98-344	---	---	---	91.2 (16)	61.9	11.6
W98-263	---	---	---	80.2 (20)	62.0	11.2
NURSERY MEAN	---	---	90.0	92.9	61.6	11.1
CV %	---	---	13.0	13.9	1.5	6.4
LSD @ .10	---	---	9.8	15.3	1.1	0.9

ALMIRA HARD WINTER WHEAT – 2005 WSU VARIETY TESTING DATA

1. 2005 Hard Winter Wheat YIELD DATA from the WSU Variety Testing nursery at the St Andrews location averaged 92.9/ac and was nearly the same as the historical 2-year average at this location. *NOTE: The Almira nursery was located approximately 10 miles north of Almira, WA off Bagdad Rd (D. McKay farm).*
2. This nursery was planted on 9 Sept 2004 into excellent soil moisture. Fall 2004 GROWING CONDITIONS coupled with timely precipitation patterns in late spring 2005 undoubtedly were ideal for winter wheat development in this region for the 2005 crop.
3. STRIPE RUST infections on susceptible varieties first appeared around 25 May 2005 and generally gnawed away on susceptible varieties until the end of June. Susceptible varieties such as Hatton, Falcon, Wanser and Moreland also had the lowest yields in the nursery. Surprisingly, TEST WEIGHT was not affected by the stripe rust and the overall test weight for the hard winter wheats was excellent.
4. Protein values averaged 11.1% for this nursery. Total available nitrogen measured in February 2005 showed 320#N.
5. Eltan is included in the nursery as a yield check variety because of its adaptation to this area. Many of the newer HRW experimental lines show promise, both in terms of higher yield averages and stripe rust resistance.
6. PLANT HEIGHT values above normal are similar to the soft white winter wheat nursery at this location and also indicative of the high yield values in 2005. Average plant height of the HRW varieties in the 2005 nursery was 43.2 inches compared to an average plant height of 39.0 inches in the 2004 nursery – over 4-inches taller in 2005.
7. YIELD RANKING trends among varieties at this location remained fairly consistent with the historical yield rankings. Seven varieties averaged over 100 bu/ac in the nursery: WA7976, WA7977, WA7979 (Estica x Finley pedigrees); Residence (from CEBCO); DW U Idaho) and Bauermeister (Eltan x HRW cross). Excluding varieties that had susceptibility to stripe rust, all other varieties/experimental lines had fairly comparable yields.