

2006 WSU EXTENSION SOFT WHITE SPRING WHEAT NURSERY AT HORSE HEAVEN, 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 (%)	PLANT HT	HEAD DATE
WA008007				48.1	55.8	12.5	31.7	155.0
NICK	31.7	36.1	29.4	45.8	59.8	12.0	26.3	151.0
WA007964		38.6	30.8	45.3	54.7	12.5	31.3	155.0
LOUISE	32.1	36.8	29.7	45.1	57.6	11.8	31.3	153.5
WA008008				44.8	58.6	11.9	25.7	151.5
WA007986			24.9	42.8	56.8	13.5	26.0	153.5
WAKANZ		35.8	28.9	42.5	54.2	12.9	28.0	156.0
UI PETTIT			27.1	42.0	60.9	11.2	22.3	146.5
WA007987			25.1	41.4	56.7	11.3	26.0	152.5
EDEN	29.6	33.7	26.4	40.4	58.6	11.1	26.7	152.5
UI CATALDO				40.1	57.7	12.4	25.7	149.0
WA007988				39.6	57.8	13.3	25.3	154.0
ALTURAS	29.2	34.8	25.5	39.4	57.9	12.1	26.0	153.0
ALPOWA	28.3	32.2	24.9	38.5	56.8	11.5	27.0	154.5
WAWAWAI	28.7	31.6	25.1	36.2	57.3	12.3	31.3	153.0
ZAK	25.6	27.5	20.0	30.0	55.1	12.9	27.0	154.5
EDWALL	23.4	24.0	18.1	29.1	52.2	11.3	26.3	153.0
FIELDER	21.4	19.9	14.1	22.6	53.9	12.1	26.3	153.5
C.V. %	7.3	6.9	7.3	6.0	0.9	8.0	--	--
LSD '@ .10'	1.3	1.7	1.9	3.3	0.7	1.3	--	--
Average	27.8	31.9	25.0	39.7	56.8	12.1	27.2	152.9
Highest	32.1	38.6	30.8	48.1	60.9	13.5	31.7	156.0
Lowest	21.4	19.9	14.1	22.6	52.2	11.1	22.3	146.5

2006 WSU EXTENSION HARD WHITE SPRING WHEAT NURSERY AT HORSE HEAVEN, 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 (%)	PLANT HT	HEAD DATE
BZ903-455WP-d				47.6	56.9	14.0	28.7	151.5
WAIKEA			30.7	46.1	57.2	13.4	29.3	150.0
WA008012				43.1	59.0	13.0	29.3	150.5
BLANCA GRANDE		31.0	26.6	42.5	60.3	14.0	25.7	149.5
WA008010				42.2	57.5	13.6	28.0	152.5
LOLO	29.1	33.0	26.8	41.9	57.9	13.9	30.3	152.0
ALTA BLANCA				41.2	57.9	13.8	30.7	152.5
OTIS	29.1	33.0	26.4	38.8	56.0	14.4	33.0	154.5
WA007990				38.7	55.0	14.9	31.0	152.5
WQL9HDALP				38.1	54.3	12.7	26.7	154.5
IDO377S	28.1	32.3	24.1	37.1	54.9	14.8	28.7	151.5
MACON	24.3	26.8	20.6	32.9	55.6	12.8	28.7	150.5
C.V. %	6.9	6.7	7.2	6.2	1.9	2.9	--	--
LSD '@ .10'	1.3	1.8	2.2	3.6	1.5	0.6	--	--
Average	27.6	31.2	25.9	40.8	56.9	13.8	29.2	151.8
Highest	29.1	33.0	30.7	47.6	60.3	14.9	33.0	154.5
Lowest	24.3	26.8	20.6	32.9	54.3	12.7	25.7	149.5

2006 WSU EXTENSION HARD RED SPRING WHEAT NURSERY AT HORSE HEAVEN, 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 (%)	PLANT HT	HEAD DATE
JEFFERSON	28.9	33.0	30.4	46.9	58.4	14.8	28.7	151.0
TARA 2002	28.1	32.4	28.4	45.1	57.8	14.7	30.3	149.0
JEFF/PRONTO				44.9	57.6	15.3	29.0	149.0
BZ999-339			28.4	44.5	59.1	14.9	29.3	149.5
WA007998			28.8	44.4	56.0	14.7	29.0	150.5
UI WINCHESTER				44.3	60.1	14.2	27.7	150.0
HANK	29.3	34.2	29.8	44.2	57.6	14.9	28.0	150.5
WA008018				44.1	55.2	15.4	30.3	154.0
WESTBRED 926	27.0	30.9	28.2	42.9	58.9	14.9	28.3	149.0
BZ9M03-1044				42.5	59.8	14.7	25.7	151.0
WA007954				42.4	57.4	15.9	30.3	154.5
HOLLIS	28.8	33.7	28.5	42.2	57.9	15.8	34.7	152.0
WA008017				42.2	57.4	15.1	29.0	150.0
ACS52610				42.2	59.8	14.2	27.7	154.0
JEROME		31.9	27.3	41.8	57.8	14.5	29.0	149.5
WA007953				40.9	56.5	16.5	35.7	155.5
BUCK PRONTO		30.3	26.4	40.7	58.2	15.4	28.0	149.5
WA008015				40.2	54.0	15.6	29.7	153.5
WA008016				39.2	53.6	15.9	30.3	155.0
SCARLET	27.7	30.1	23.5	37.0	54.5	15.1	31.0	153.0
C.V. %	6.7	7.3	6.1	4.5	1.4	2.9	--	--
LSD '@.10'	1.3	2.0	1.9	2.6	1.1	0.6	--	--
Average	28.3	32.1	28.0	42.6	57.4	15.1	29.6	151.5
Highest	29.3	34.2	30.4	46.9	60.1	16.5	35.7	155.5
Lowest	27.0	30.1	23.5	37.0	53.6	14.2	25.7	149.0

HORSE HEAVEN SPRING WHEAT – 2006 WSU VARIETY TESTING DATA

1. 2006 Spring Wheat **yield data** from the WSU Variety Testing nursery at the Horse Heaven location averaged 39.7, 40.8, and 42.6 bu/ac for soft white spring, hard white spring and hard red spring wheat, respectively. The 2006 spring wheat **average YIELDS were higher** by 24.4%, 31.6% and 32.7% for soft white spring, hard white spring and hard red spring wheat, respectively, compared to the historical 3-year average. This yield increase above historical yields is a function of above normal precipitation (one to two inches) during end of May and first part of June that enhanced tiller production and development. In addition, this nursery was planted on summer fallow.
2. In contrast to above average yields, **TEST WEIGHT** values were fairly low, probably influenced by late season high temperatures during grain fill. Test weight averages for each nursery were also heavily influenced by stripe rust infestations that caused a significant yield and test weight reductions in susceptible varieties. Generally, the most stripe rust susceptible varieties had the lowest yield and test weight values.
3. **STRIPE RUST** infections appeared to occur late in the season (mid-late June 2006).
4. **GRAIN PROTEIN** values averaged 12.1%, 13.8% and 15.1% for soft white, hard white and hard red spring market classes, respectively. Some of the elevated protein values are undoubtedly related to dry conditions during grain fill and associated low test weight values.
5. In general, variety **YIELD RANKINGS** were similar to 3-year historical yield rankings. The Horse Heaven area typically uses hard red spring wheat as a rotation crop in a 4-yr rotation with HRW and summer fallow to help manage weed problems such as Russian thistle. Stripe rust has become a significant problem in spring wheat as well as winter wheat in this region.