

2006 WSU EXTENSION SOFT WHITE SPRING WHEAT NURSERY AT REARDAN, 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
WAKANZ		69.0	70.3	90.6	59.3	11.8	34.0	182.0
LOUISE	64.1	67.3	68.1	85.5	59.9	11.9	38.7	179.5
EDEN	62.7	62.4	60.2	79.2	59.4	11.2	33.3	179.5
WAWAWAI	60.4	60.4	58.6	77.3	55.7	12.1	39.0	179.5
WA008007				75.9	53.8	12.4	37.7	180.5
NICK	62.3	64.8	61.6	75.8	60.6	12.3	33.0	173.5
UI CATALDO				75.8	60.1	12.1	32.3	173.0
ALTURAS	58.6	62.5	59.1	73.3	60.6	11.5	32.0	178.5
ALPOWA	59.5	59.1	55.5	69.3	60.2	11.7	34.0	181.0
UI PETTIT			57.9	69.2	61.9	11.3	27.3	170.5
WA007986			56.0	68.8	55.9	13.1	32.0	182.0
WA007987			55.4	66.9	57.4	12.9	32.7	180.5
WA008008				66.6	58.5	12.2	32.7	179.0
WA007988				63.5	56.6	12.4	31.3	181.5
ZAK	47.8	44.7	42.3	59.2	58.1	12.1	35.3	182.0
EDWALL	43.9	37.5	34.1	46.3	54.0	11.9	30.7	179.0
FIELDER	38.3	31.3	27.9	39.5	56.1	12.0	31.3	181.5
WA007964				Late maturing/not ripe			32.0	184.0
C.V. %	6.9	7.0	6.3	5.5	3.5	3.9	--	--
LSD '@ .10'	2.4	3.1	3.4	5.3	2.8	0.6	--	--
Average	55.3	55.8	53.6	69.6	58.1	12.1	33.3	179.3
Highest	64.1	69.0	70.3	90.6	61.9	13.1	39.0	184.0
Lowest	38.3	31.3	27.9	39.5	53.8	11.2	27.3	170.5

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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				76.0	56.9	15.2	35.3	175.5
WQL9HDALP				73.3	61.0	11.7	33.7	179.0
WAIKEA			63.4	70.9	56.4	14.8	36.7	172.5
LOLO	60.0	60.6	56.3	69.8	60.1	14.3	34.3	176.5
OTIS	59.8	60.7	57.8	69.7	59.7	14.2	39.0	177.0
ALTA BLANCA				65.1	58.9	14.8	35.3	176.5
WA008010				63.4	59.2	14.3	32.7	177.0
MACON	52.1	53.9	49.4	62.7	55.7	14.6	35.0	173.5
IDO377S	57.3	60.3	54.2	62.0	59.0	14.8	34.3	176.5
WA008012				61.0	61.2	13.6	32.0	173.5
WA007990				59.6	59.9	14.3	35.0	177.5
BLANCA GRANDE		57.5	50.3	49.4	62.3	14.9	29.3	168.5
C.V. %	6.9	7.1	7.4	8.5	1.0	1.5	--	--
LSD '@ .10'	2.5	3.4	4.3	7.8	0.8	0.3	--	--
Average	57.3	58.6	55.2	65.2	59.2	14.3	34.4	175.3
Highest	60.0	60.7	63.4	76.0	62.3	15.2	39.0	179.0
Lowest	52.1	53.9	49.4	49.4	55.7	11.7	29.3	168.5

2006 WSU EXTENSION HARD RED SPRING WHEAT NURSERY AT REARDAN, 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
HANK	61.2	64.3	63.6	76.2	56.7	15.8	33.3	174.0
BZ999-339			62.5	75.8	56.5	15.7	35.7	172.5
TARA 2002	57.8	63.5	64.0	75.5	58.5	15.5	38.3	170.0
WESTBRED 926	58.0	62.7	61.8	74.6	57.3	15.8	35.0	171.0
UI WINCHESTER				74.4	58.2	15.0	32.3	172.0
BZ9M03-1044				73.0	60.2	14.7	29.7	172.0
JEFFERSON	58.6	61.8	60.8	72.5	59.0	15.2	33.7	174.0
WA007998			60.1	71.9	58.6	15.0	35.7	174.0
SCARLET	54.6	56.3	54.9	71.3	58.0	15.2	34.0	175.5
HOLLIS	52.4	56.6	58.5	69.7	58.2	16.5	45.0	172.0
ACS52610				69.4	61.3	14.7	34.3	178.0
JEROME		60.3	59.1	69.3	57.6	14.7	33.0	170.0
WA008017				69.0	59.3	15.3	36.0	172.0
WA007953				66.4	60.6	16.1	45.3	180.0
JEFF/PRONTO				66.3	58.6	16.1	34.3	170.5
WA008018				64.2	56.9	15.2	33.7	177.5
BUCK PRONTO		59.9	57.7	64.0	59.2	16.9	34.7	168.5
WA008016				63.6	58.1	15.3	34.3	178.5
WA007954				62.7	59.6	16.1	35.0	177.5
WA008015				58.8	58.3	15.6	34.0	177.0
C.V. %	7.8	7.4	6.5	7.0	1.4	1.9	--	--
LSD '@.10'	2.8	3.6	3.9	6.7	1.1	0.4	--	--
Average	57.1	60.7	60.3	69.4	58.5	15.5	35.4	173.8
Highest	61.2	64.3	64.0	76.2	61.3	16.9	45.3	180.0
Lowest	52.4	56.3	54.9	58.8	56.5	14.7	29.7	168.5

REARDAN SPRING WHEAT – 2006 WSU VARIETY TESTING DATA

1. 2006 Spring Wheat **yield data** from the WSU Variety Testing nursery at the Reardan, WA location averaged 69.6, 65.2, and 69.4 bu/ac for soft white spring, hard white spring and hard red spring wheat, respectively. The 2006 spring wheat **average YIELDS were higher** by 24.7%, 12.0% and 14.3% for soft white, hard white and hard red spring market classes, respectively. *NOTE: This nursery was located, approximately 5 miles west of Reardan, WA on Janett Rd (H. Johnson farm).*
2. The nursery was **seeded** on 20 April 2006 on re-crop ground following a spring (2005) mustard crop. There was good soil moisture at seeding with the moisture level just one-inch below the soil surface. Germination and emergence was good and the stand was uniform.
3. **Stripe rust** (*Puccinia striiformis f. sp. tritici*) appeared in this nursery with low to moderate levels of infection based on a 29 June 2006 field evaluation. Highly susceptible soft white spring varieties such as Zak, Fielder and Edwall appeared to suffer the greatest yield and test weight reductions from the stripe rust infections.
4. **YIELD RANKINGS** among varieties within market classes followed 3-year historical yield rank patterns. Good soil moisture at seeding coupled with late-May-early June precipitation with cool weather appeared to be good for vegetative growth and development of the spring wheat plants reflected in above average yields for this location. It is interesting to note that Wakanz, Louise and Wawawai were some of the highest yielding varieties in the soft white spring nursery and are also some of the latest maturing varieties. This trend is not quite as evident in the hard white and hard red market class; however, it suggests that 'later' varieties were able to cope with the environmental stress cycles a little better during the 2006 growing season.
5. **TEST WEIGHT** average values across all three market classes bounced around this year and had a range of 58.1 to 59.2 lbs/bu. As previously mentioned, stripe rust susceptible varieties tended generally had the lowest test weight values, particularly in the soft white and hard white market classes. Heat stress periods in June and July undoubtedly had a negative impact on test weight at the Reardan location.
6. **GRAIN PROTEIN** values averaged 12.1%, 14.3% and 15.5% for the soft white, hard white and hard red spring market classes, respectively. Protein values for each market class appear to be following similar trends seen in nurseries at other locations where soft white values are slightly elevated but hard white and hard red spring varieties/experimental lines are within acceptable protein values, on average, for the market class.