

2006 WSU EXTENSION SOFT WHITE SPRING WHEAT NURSERY AT MOSES LAKE, 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	LODGING (%)
WA007964	--	97.3	105.2	105.4	59.4	11.7	40.3	160.3	0.0
UI CATALDO	--			102.8	60.6	12.0	34.7	154.0	6.7
ALTURAS	--	102.3	97.5	100.5	59.4	11.8	36.7	156.0	26.7
EDEN	--	81.0	91.6	99.8	61.7	12.3	39.0	157.3	26.7
UI PETTIT	--		88.7	99.5	59.7	12.0	31.0	153.0	0.0
EDWALL	--	55.6	71.9	96.6	57.1	12.2	36.7	156.0	0.0
WA008008	--			95.0	58.9	12.7	37.0	155.3	20.0
WAKANZ	--	95.5	99.7	94.4	58.2	12.4	37.0	158.7	33.3
WAWAWAI	--	73.3	90.2	93.9	60.0	12.3	42.3	156.0	16.7
NICK	--	101.5	95.5	91.6	59.7	11.9	34.7	154.3	0.0
FIELDER	--	47.8	60.8	90.8	59.2	12.2	37.0	158.3	0.0
ZAK	--	68.3	79.7	87.7	57.3	13.0	38.0	158.0	6.7
LOUISE	--	80.9	91.0	86.2	58.1	12.9	40.0	156.7	23.3
ALPOWA	--	89.3	93.8	85.9	56.1	13.1	40.7	159.0	0.0
WA008007	--			85.3	56.5	13.2	42.0	158.0	23.3
WA007988	--			83.2	59.1	14.2	41.0	159.7	10.0
WA007987	--		79.4	82.9	59.3	13.4	41.0	158.7	50.0
WA007986	--		82.4	80.7	59.2	13.9	43.3	159.0	20.0
C.V. %	--	14.9	12.5	16.0	3.0	6.6	--	--	--
LSD '@ .10'	--	9.6	10.6	20.4	2.5	1.1	--	--	--
Average	--	81.2	87.7	92.3	58.9	12.6	38.5	157.1	14.6
Highest	--	102.3	105.2	105.4	61.7	14.2	43.3	160.3	50.0
Lowest	--	47.8	60.8	80.7	56.1	11.7	31.0	153.0	0.0

2006 WSU EXTENSION HARD WHITE SPRING WHEAT NURSERY AT MOSES LAKE, WA.

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				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE	LODGING (%)
WQL9HDALP	--			129.0	60.9	12.7	40.0	159.7	30.0
LOLO	--	112.2	117.5	117.6	61.9	13.6	38.0	156.7	0.0
IDO377S	--	96.8	107.7	116.6	61.8	13.5	39.3	157.7	45.0
BZ903-455WP-d	--			115.5	58.2	14.6	37.3	157.0	26.7
WA008012	--			111.8	61.5	13.8	37.3	155.3	30.0
WA008010	--			107.4	58.3	14.6	38.7	157.3	1.7
OTIS	--	107.6	109.6	105.6	60.3	13.7	42.0	156.0	0.0
BLANCA GRANDE	--	113.4	103.4	104.8	63.1	14.3	32.3	152.7	0.0
WA007990	--			103.6	60.1	14.4	39.0	157.7	56.7
MACON	--	87.9	90.2	98.5	59.8	13.7	36.7	154.0	56.7
ALTA BLANCA	--			93.2	58.3	15.2	39.3	156.3	6.7
WAIKEA	--		105.6	92.5	57.0	14.9	39.7	153.7	26.7
C.V. %	--	11.1	8.8	11.8	2.8	5.4	--	--	--
LSD '@ .10'	--	9.2	9.2	17.9	2.4	1.1	--	--	--
Average	--	103.6	105.7	108.0	60.1	14.1	38.3	156.2	23.4
Highest	--	113.4	117.5	129.0	63.1	15.2	42.0	159.7	56.7
Lowest	--	87.9	90.2	92.5	57.0	12.7	32.3	152.7	0.0

2006 WSU EXTENSION HARD RED SPRING WHEAT NURSERY AT MOSES LAKE, 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	LODGING (%)
TARA 2002	--	104.2	104.5	113.7	60.5	15.0	39.3	152.7	18.3
ACS52610	--			112.0	62.3	14.8	37.0	157.7	0.0
HANK	--	102.2	99.5	109.4	59.2	14.4	36.3	154.0	0.0
SCARLET	--	78.3	89.6	106.5	59.2	15.4	41.0	157.7	50.0
WA007954	--			102.4	60.7	16.2	38.3	158.0	0.0
WA008016	--			101.5	59.5	15.7	39.7	159.0	30.0
UI WINCHESTER	--			101.2	59.9	15.5	35.0	156.3	26.7
BZ9M03-1044	--			100.9	60.9	15.3	32.0	154.0	0.0
BUCK PRONTO	--	106.8	101.6	98.4	60.3	16.7	37.0	152.0	10.0
BZ999-339	--		98.7	97.9	58.4	15.2	36.0	151.0	0.0
JEROME	--	105.3	101.3	97.7	59.2	14.5	36.7	154.3	0.0
JEFFERSON	--	99.6	99.7	97.0	59.4	15.6	37.0	155.0	28.3
WESTBRED 926	--	99.0	96.5	96.5	58.2	16.3	33.7	152.7	3.3
WA007998	--		94.7	95.3	58.1	15.9	38.0	155.0	26.7
HOLLIS	--	100.7	102.3	94.5	59.4	16.6	44.3	156.3	50.0
WA008018	--			93.0	56.5	15.4	39.0	156.3	16.7
JEFF/PRONTO	--			92.8	58.8	16.6	37.0	154.3	0.0
WA008017	--			91.4	58.4	15.9	38.7	152.7	0.0
WA008015	--			88.7	55.3	17.2	41.3	158.7	10.0
WA007953	--			74.3	59.7	17.5	46.0	159.3	40.0
C.V. %	--	9.4	8.6	10.6	3.0	5.4	--	--	--
LSD '@ .10'	--	7.2	8.0	14.4	2.4	1.2	--	--	--
Average	--	99.5	98.8	98.2	59.2	15.8	38.2	155.4	15.5
Highest	--	106.8	104.5	113.7	62.3	17.5	46.0	159.3	50.0
Lowest	--	78.3	89.6	74.3	55.3	14.4	32.0	151.0	0.0

2006 WSU EXTENSION IRR. ONLY HARD RED SPRING WHEAT NURSERY AT MOSES LAKE, 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	LODGING (%)
02W50603	--	--	--	115.0	61.2	15.5	32.0	153.7	0.0
95WV10616	--	--	--	111.1	60.9	15.4	30.3	156.0	0.0
02W50076	--	--	--	109.3	58.7	14.3	29.7	155.7	0.0
EXPRESS	--	--	--	108.4	61.7	14.1	32.0	156.0	0.0
SOLANO	--	--	--	107.5	60.9	15.8	30.0	155.3	0.0
01W20172	--	--	--	107.5	59.1	14.5	28.7	156.3	0.0
EXPRESSO	--	--	--	105.3	59.7	16.0	33.3	157.7	0.0
JOAQUIN	--	--	--	103.8	61.3	15.8	31.7	152.3	0.0
DA901-66	--	--	--	100.4	61.1	15.9	31.7	155.7	3.3
C.V. %	--	--	--	5.5	1.1	3.2	--	--	--
LSD '@ .10'	--	--	--	8.4	1.0	0.7	--	--	--
Average	--	--	--	107.6	60.5	15.3	31.0	155.4	0.4
Highest	--	--	--	115.0	61.7	16.0	33.3	157.7	3.3
Lowest	--	--	--	100.4	58.7	14.1	28.7	152.3	0.0

MOSES LAKE SPRING WHEAT (irrigated) – 2006 WSU VARIETY TESTING DATA

1. 2006 Spring Wheat **yield data** from the WSU Variety Testing nursery at the Moses Lake location averaged 92.3, 74.5, and 72.4 bu/ac for soft white spring, hard white spring and hard red spring wheat, respectively. The 2006 spring wheat **average YIELDS were slightly higher** by 13.6%, 2.5% for soft and hard white spring market classes, respectively but about 1.4% lower for the hard red spring market class. Also included at this nursery is an additional and separate hard red spring nursery that includes only HRS varieties adapted to irrigation (referred to as *irrigated only hard red spring*) NOTE: Both of the hard red spring nurseries were located adjacent to each other. Separate statistical analyses were used on each nursery; however, yield comparisons among varieties/lines between the two nurseries should be a reliable indicator of performance differences. The nursery was seeded on 28 March 2006 following a previous crop of leeks and was irrigated with solid set irrigation. *This nursery was located in the vicinity of Block 89, five miles north of I-90 and about 2-miles east of Dodson Rd (J. LaFave farm).*
2. **YIELD RANKINGS** among varieties within market classes were fairly consistent with 3-year historical yield rank patterns; however, there was some bouncing around. The soft white spring wheat nursery had a relatively high CV% (16.0%) and this probably accounts for a lot of the variation comparing varieties over years. Nick, soft white spring wheat, is an example of a variety that has one of the higher yield averages under irrigation but did not rank as high in the 2006 trials. The variation in this nursery is a combination of soil variability coupled with some intermittent irrigation problems (sprinkler heads blowing off, leaks, etc.). Hard white and hard red spring nurseries had yield rankings among varieties that were comparable with 3-yr average yields.
3. **Stripe rust** was not an issue in this nursery in 2006.
4. **TEST WEIGHT** average values across all three market classes had a range of 58.9 to 60.1 lbs/bu. The dry/heat stress periods during grain fill did not appear to have hurt test weight appreciably.
5. **GRAIN PROTEIN** values averaged 12.6%, 14.1% and 15.8% for the soft white, hard white and hard red spring market classes, respectively. Additional nitrogen was applied through the irrigation system to the hard white and hard red spring nurseries to match yield/protein goals for each market class.