

# 2007 WSU EXTENSION SOFT WHITE SPRING WHEAT NURSERY AT MOSES LAKE, WA.

Variety Name <small>*Club Italized</small>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2007					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
ALPOWA	--	105.3	107.2	128.5	60.7	10.5	1.7	40.3	156.7
WA008039	--			125.7	60.9	9.8	0.0	37.3	155.3
NICK	--	105.5	108.6	125.6	60.8	10.7	0.0	35.3	152.3
WA008008	--		109.9	124.9	60.3	10.6	0.0	35.7	151.7
WA008043	--			119.3	60.7	10.4	0.0	37.0	156.7
WA008041	--			119.0	57.6	10.5	6.7	40.0	154.7
WA008044	--			116.8	60.0	10.7	1.7	39.0	157.0
LOUISE	--	98.7	100.1	114.0	60.1	10.5	0.0	37.7	153.7
UI CATALDO	--		108.0	113.2	59.6	10.9	0.0	35.3	150.0
ALTURAS	--	102.5	106.5	112.4	59.3	10.7	0.0	36.3	154.7
WA008046	--			111.9	59.2	10.9	13.3	35.0	151.7
ZAK	--	88.3	96.6	105.4	58.8	10.7	13.3	39.0	155.0
<i>EDEN</i>	--	95.9	102.2	104.6	59.9	11.0	0.0	38.3	154.3
WA008059	--			104.5	60.6	11.3	26.7	38.3	154.0
ARS05S303	--			102.2	56.3	11.4	0.0	34.7	157.0
<i>WA008047</i>	--			101.2	60.4	11.8	23.3	41.3	155.3
WAKANZ	--	99.2	96.4	98.3	58.6	11.4	0.0	36.3	157.3
<i>WA007989</i>	--			90.3	59.1	11.5	0.0	35.7	156.3
C.V. %	--	9.2	10.5	5.0	0.9	4.1	--	--	--
LSD '@ .10'	--	7.5	10.8	7.8	1.3	0.6	--	--	--
Average	--	99.3	103.9	112.1	59.6	10.9	4.8	37.4	154.7
Highest	--	105.5	109.9	128.5	60.9	11.8	26.7	41.3	157.3
Lowest	--	88.3	96.4	90.3	56.3	9.8	0.0	34.7	150.0

**2007 WSU EXTENSION HARD 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)	2007					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
WQL9HDALP	--		127.0	124.9	59.5	12.0	16.7	39.3	156.7
WA008038	--			123.8	62.0	11.6	0.0	41.3	153.0
WAIKEA	--	111.3	107.7	122.9	58.3	13.0	0.0	40.0	150.3
BLANCA GRANDE	--	108.9	112.3	119.8	62.7	12.8	0.0	32.3	149.3
BZ903-445WP-d	--		117.3	119.2	57.6	13.9	0.0	38.0	153.7
OTIS	--	111.5	110.5	115.4	60.6	12.8	0.0	42.0	154.3
WA008035	--			115.2	60.0	12.6	11.7	36.3	151.7
CLEAR WHITE	--			113.8	59.9	12.2	0.0	31.3	151.3
LOLO	--	116.0	115.3	112.9	60.1	12.7	16.7	40.3	154.7
WA008036	--			110.9	61.6	11.9	0.0	43.7	154.3
MACON	--	94.7	101.1	103.7	58.7	12.2	23.3	38.0	154.0
PATWIN	--			68.5	56.6	15.8	0.0	32.7	161.0
C.V. %	--	7.3	8.4	3.3	1.0	6.4	--	--	--
LSD '@ .10'	--	6.3	9.1	5.3	0.9	1.2	--	--	--
Average	--	108.5	113.0	112.6	59.8	12.8	5.7	37.9	153.7
Highest	--	116.0	127.0	124.9	62.7	15.8	23.3	43.7	161.0
Lowest	--	94.7	101.1	68.5	56.6	11.6	0.0	31.3	149.3

**2007 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)	2007					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
JEROME	--	107.1	108.3	118.9	59.6	13.1	0.0	35.7	150.3
TARA 2002	--	108.6	115.2	116.8	60.3	13.2	0.0	38.0	150.3
CABERNET	--			116.5	61.3	12.6	0.0	31.0	155.3
HANK	--	104.2	111.4	113.5	57.8	14.9	0.7	37.0	153.3
BZ999-339	--	103.1	105.0	112.0	58.8	14.4	1.7	36.3	152.7
BUCK PRONTO	--	105.0	105.0	111.7	61.3	14.0	0.0	36.0	149.0
ACS52610	--		111.8	111.6	62.3	13.7	0.0	36.3	157.3
WA008034	--			109.4	59.8	13.4	1.7	40.0	155.0
HOLLIS	--	104.7	101.9	109.3	60.8	14.3	33.3	46.0	154.0
JEFFERSON	--	102.8	103.0	109.0	60.4	13.8	0.0	37.0	153.0
WA008027	--			105.7	60.8	14.2	0.7	40.3	154.0
SCARLET	--	94.5	105.4	104.4	59.5	13.8	6.7	40.7	153.0
JEDD	--		102.4	104.0	60.8	13.7	0.0	33.0	152.3
JEFF/PRONTO	--		98.1	103.3	60.1	14.1	0.0	37.0	150.0
WESTBRED 926	--	98.3	99.2	102.0	59.5	13.5	0.0	35.7	151.3
WA008013	--			98.9	60.9	14.1	40.0	46.3	154.3
WA008030	--			96.7	60.6	14.2	8.3	39.7	155.0
RSI50076	--			93.7	58.3	13.6	0.0	30.0	155.3
GRANAR	--			86.6	59.8	13.6	0.0	35.7	154.3
WA008031	--			85.8	57.9	15.6	16.7	39.3	155.3
WA007954	--		93.9	85.3	59.5	15.4	0.0	36.7	155.7
C.V. %	--	7.3	7.9	4.8	0.9	5.7	153.7	--	--
LSD '@ .10'	--	5.8	7.9	7.0	0.8	1.1	11.0	--	--
Average	--	103.1	104.7	104.5	60.0	14.0	5.2	37.5	152.0
Highest	--	108.6	115.2	118.9	62.3	15.6	40.0	46.3	155.7
Lowest	--	94.5	93.9	85.3	57.8	12.6	0.0	30.0	128.7

**2007 WSU EXTENSION IRR. ONLY HARD SPRING WHEAT NURSERY AT MOSES LAKE, WA.**

Variety Name *HDWH Italized	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2007				
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE
<i>BZ904-336WP</i>	--	--		124.9	61.9	13.2	33.3	149.0
RSI20035	--	--		122.9	61.1	13.0	32.7	151.7
RSI50603	--	--	113.3	111.6	60.0	14.4	33.7	154.7
SOLANO	--	--	107.8	108.0	60.9	14.6	31.3	155.3
EXPRESS	--	--	105.3	102.2	59.8	15.0	32.7	156.3
EXPRESSO	--	--	100.4	95.4	60.2	15.2	32.7	155.7
240352	--	--		68.6	57.3	14.4	38.3	163.0
C.V. %	--	--	7.5	9.2	1.3	7.8	--	--
LSD '@ .10'	--	--	7.9	14.1	1.1	1.6	--	--
Average	--	--	106.7	104.8	60.2	14.3	33.5	155.1
Highest	--	--	113.3	124.9	61.9	15.2	38.3	163.0
Lowest	--	--	100.4	68.6	57.3	13.0	31.3	149.0

## MOSES LAKE SPRING WHEAT – 2007 WSU VARIETY TESTING DATA

1. 2007 Spring Wheat **yield data** from the WSU Variety Testing nursery at the Moses Lake, WA location averaged 112.1, 112.6, and 104.5 bu/ac for soft white spring, hard white spring and hard red spring wheat, respectively. These 2007 spring wheat **average yields were equal** to or slightly **above** previous 3-yr historical average yields. *NOTE: The Moses Lake nursery was located 12 miles west of Moses Lake near the intersection of Road 4 NW and Road A NW under a solid set sprinkler irrigation system (John Lafave farm).*
2. This nursery was planted (2 April 2007) on re-crop ground following pumpkins (*something that will be hard to duplicate in dryland cropping systems!*) with a double disc plot drill (6-inch spacing) at an 90#/acre seeding rate. Base fertilizer rate was 150#N, 10#S and 80#K. An additional 70#N, 10#S and 90#N, 13.5#S were applied to the hard white and hard red spring nurseries, respectively.
3. Included in the data sets is a hard red spring irrigated only nursery. This nursery is established to support evaluations of HRS wheat varieties/lines that are **only adapted to irrigated** production systems. **Yield average rankings** tracked closely with historical 3-yr average yield rankings in all market classes. It is worth noting that many entries were not developed for irrigated conditions and as a consequence to not perform as well under irrigation many times because they may be prone to lodging. However, in the 2007 nursery, lodging was not a significant issue for most of the entries.
4. **TEST WEIGHT** values (average range across market classes was 59.6 lb/bu to 60.2 lb/bu) was good, probably influenced most by a 2-week period (6-18 Jun 2007) of cooler temperatures during grain fill and favorable irrigation management.
5. **GRAIN PROTEIN** values averaged 10.9%, 12.8% and 14.0% for soft white, hard white and hard red spring market classes, respectively. The fertility levels for the hard red spring market class entries appeared to be right on the bubble between sufficient to not quite enough and varieties seem to straddle both sides of the 14% grain protein mark by about 0.5% in many cases.