

## 2009 WSU EXTENSION SOFT WHITE SPRING WHEAT NURSERY AT REARDAN, WA.

Variety Name *Club Italized	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2009				
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE
ALTURAS	50.8	45.2	49.8	66.1	62.3	11.7	32.7	174.5
WA008106				65.6	62.6	11.8	37.3	174.0
BABE		49.5	50.1	63.4	62.9	12.7	35.0	175.0
ZAK	44.7	46.2	52.1	62.8	61.6	12.8	34.0	176.5
WHIT		45.8	49.1	61.3	62.1	12.2	32.7	172.0
BZ604-002				60.9	62.2	12.6	34.3	173.5
WA008039HF				58.9	62.6	12.2	33.7	175.0
<i>JD</i>		40.7	45.1	58.8	63.2	12.9	33.7	173.5
WA008104				58.4	63.3	12.7	35.0	173.5
<i>JD (HSR)</i>				58.3	63.1	12.9	35.0	173.5
LOUISE	53.4	43.6	49.6	57.3	62.1	11.9	37.7	175.5
CATALDO		38.5	41.2	56.1	61.4	12.3	30.0	170.5
WA008089			48.9	55.9	63.1	11.6	33.0	174.0
WA008090			45.1	54.8	62.2	12.7	34.7	174.5
ALPOWA	49.2	45.0	47.6	53.9	61.9	12.8	33.3	177.5
WA008112				52.9	61.3	12.1	33.0	177.0
WA008108				52.2	62.3	13.3	34.0	169.0
<i>EDEN (HSR)</i>				52.2	63.1	12.0	31.0	172.5
NICK	49.2	41.0	43.3	50.2	61.8	13.2	32.0	172.0
WA008059		40.0	41.4	50.2	60.9	14.4	34.0	173.5
WAKANZ	52.6	40.9	46.1	49.5	60.5	13.1	32.0	178.0
WA008041		39.1	42.6	44.4	60.8	12.9	35.3	176.0
<i>EDEN</i>	47.0	38.1	37.7	44.1	62.6	12.3	28.7	172.5
WA008058			36.0	39.3	60.8	14.3	33.0	173.5
C.V. %	8.7	10.3	9.8	10.7	0.8	2.0	3.7	0.5
LSD <sup>1</sup> @ .10 <sup>1</sup>	2.6	3.6	4.5	8.2	0.7	0.4	1.7	1.2
Average	49.6	42.6	45.4	55.3	62.1	12.6	33.6	174.0
Highest	53.4	49.5	52.1	66.1	63.3	14.4	37.7	178.0
Lowest	44.7	38.1	36.0	39.3	60.5	11.6	28.7	169.0

## 2009 WSU EXTENSION HARD SPRING WHEAT NURSERY AT REARDAN, WA.

Variety Name <small>*HDVH Italized</small>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2009				
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE
<i>WA008101</i>				62.1	62.0	13.6	37.7	173.0
<i>WA008079</i>				60.3	62.0	13.8	37.3	174.0
<i>WA008078</i>				59.6	61.7	14.8	35.3	173.0
<i>WA008100</i>				58.5	61.5	13.6	38.0	177.5
<i>OTIS</i>				56.1	62.6	14.1	36.0	174.0
<i>BZ903-445WP</i>				55.8	60.7	15.2	33.7	175.0
<i>CLEAR WHITE</i>				53.8	62.0	13.6	30.0	169.0
<i>MACON</i>				53.6	61.8	13.8	35.0	172.5
HANK	48.8	39.0	41.1	51.1	61.2	15.6	32.0	173.5
JEFFERSON	46.7	37.3	42.0	49.8	61.6	16.0	33.7	173.5
<i>RSII0348W</i>				49.7	62.1	14.8	31.0	169.5
WA008072				49.7	61.9	16.1	33.3	173.0
JEDD		39.3	41.2	49.5	62.9	15.1	29.3	172.0
UI WINCHESTER			40.8	49.3	62.0	15.1	32.3	171.5
VOLT		40.5	43.3	48.9	61.7	15.5	31.3	175.5
BULLSEYE			43.5	48.8	63.2	14.9	30.0	174.0
WA008074				48.5	61.9	15.3	35.0	172.5
KELSE		41.3	42.8	48.0	61.6	16.1	35.0	174.5
BUCK PRONTO	45.5	37.4	40.2	47.4	60.9	17.1	31.7	169.0
SCARLET	44.8	38.0	42.3	47.1	61.1	15.8	34.3	174.5
WA008027		36.7	43.1	47.1	60.8	16.5	38.3	175.5
WA008075				47.1	62.1	16.2	35.0	171.0
TARA 2002	46.3	34.6	34.3	46.9	60.9	15.7	35.7	168.5
WESTBRED 926	46.9	36.9	37.5	46.8	60.5	16.0	32.0	172.0
WA008076				46.7	62.1	16.0	40.0	170.0
HOLLIS	45.7	37.2	38.2	44.7	61.1	15.7	41.0	174.5
NPBHR70			36.4	44.5	60.7	15.9	33.7	173.5
OR4990114				44.1	61.9	15.7	31.0	170.5
<i>BLANCA GRANDE</i>				43.7	61.9	15.6	30.7	168.0
LASSIK				40.1	61.2	15.0	29.7	174.0
C.V. %	8.1	8.6	8.7	9.6	0.5	2.9	3.5	0.8
LSD '@ .10'	2.3	2.8	3.7	6.6	0.4	0.6	1.6	1.8
Average	46.4	38.0	40.5	50.0	61.7	15.3	34.0	172.6
Highest	48.8	41.3	43.5	62.1	63.2	17.1	41.0	177.5
Lowest	44.8	34.6	34.3	40.1	60.5	13.6	29.3	168.0

### Reardan Hard Spring Wheat – Preliminary Data

1. Grain yield in the Reardan hard spring wheat trial averaged 50 bushels/acre, about 4 bushels/acre higher than the average 5-year yield for this location. The Reardan nursery was located about 7 miles west of Reardan, WA (Hal Johnson, cooperator).
2. This nursery was seeded on 17 April, 2009 following winter wheat. Seed was placed at an 80#/acre seeding rate using a no-till plot drill fitted with cross-slot openers set on 10-inch spacing. Base fertilizer was applied as 20#N, 4#P, and 4#S per acre, and a spring soil test showed an additional 40#N, 7#P, and 7#S of fertilizer was needed for this hard trial. The Alpha Lattice experimental designs improved variation allocation during statistical analysis and the CV by 37% compared to a RCBD design.
3. Yields ranged from 40 bu/ac to 62 bu/ac. Yield values within the LSD range of the highest yield are shown in bold and 6 of the 30 entries are in this group. Hard white entries are listed in italic and the eight top yielding cultivars are hard whites cultivars.
4. Test weights were good with an average of 61.7 lb/bu. Grain protein averaged 15.3% with a range of 13.6% to 17.1. The average plant height was 34 inches.

### Reardan Soft White Spring Wheat – Preliminary Data

1. Grain yield in the Reardan soft white spring wheat trial averaged 55 bushels/acre, about 5 bushels/acre higher than the average 5-year yield for this location. The Reardan nursery was located about 7 miles west of Reardan, WA (Hal Johnson, cooperator).
2. This nursery was seeded on 17 April, 2009 following winter wheat. Seed was placed at an 80#/acre seeding rate using a no-till plot drill fitted with cross-slot openers set on 10-inch spacing. Base fertilizer was applied as 20#N, 4#P, and 4#S per acre. The Alpha Lattice experimental designs improved variation allocation during statistical analysis and the CV by 32% compared to a RCBD design.
3. Yields ranged from 39 bu/ac to 66 bu/ac. Yield values within the LSD range of the highest yield are shown in bold and 10 of the 24 entries are in this group. Club entries are listed in italic and the (HSR) designation is a 20% higher seeding rate for the club entry.
4. Test weights were good with an average of 62.1 lb/bu. Grain protein averaged 12.6% with a range of 11.6% to 14.4. The average plant height was 34 inches.