

## 2009 WSU EXTENSION SOFT WHITE SPRING WHEAT NURSERY AT HORSE HEAVEN, 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
<i>EDEN</i>	24	22	20	17	<b>62.0</b>	12.0	18	148
WA008090			24	17	60.9	12.1	19	151
<i>EDEN (HSR)</i>				<b>16</b>	<b>61.9</b>	12.5	18	150
WHIT		22	19	15	59.7	13.0	19	150
WA008104				15	60.8	13.0	21	150
BZ604-002				15	60.6	12.6	19	150
ZAK	23	25	22	14	61.2	13.3	18	154
LOUISE	26	24	21	14	60.1	13.2	19	152
NICK	26	23	20	14	60.7	13.5	18	150
ALTURAS	23	22	19	14	60.2	12.6	18	150
WA008059		21	19	14	<b>61.7</b>	13.6	19	151
<i>JD</i>		23	21	14	<b>61.6</b>	12.9	18	151
WA008058			21	14	<b>62.1</b>	13.9	18	150
WA008039HF				14	59.8	13.1	19	152
ALPOWA	23	22	19	13	<b>61.4</b>	13.1	18	151
WAKANZ	25	23	19	13	59.1	13.4	16	155
CATALDO		19	16	13	58.8	13.3	19	149
BABE		22	20	13	60.3	13.2	19	152
WA008041		23	20	13	60.7	12.9	17	153
WA008089			22	13	60.4	12.7	19	152
WA008112				13	59.4	13.1	18	154
WA008108				13	61.1	13.7	19	149
WA008106				13	60.6	12.5	21	148
<i>JD (HSR)</i>				13	61.2	13.1	17	151
C.V. %	10	12	14	12	1.0	3.1	7	1
LSD <sup>1</sup> @ .10'	1	2	3	2	0.9	0.6	2	1
Average	24	23	20	14	60.7	13.0	19	151
Highest	26	25	24	17	<b>62.1</b>	13.9	21	155
Lowest	23	19	16	13	58.8	12.0	16	148

1. Grain yield in the Horse Heaven soft white spring wheat trial averaged 14 bu/ac, 10 bu/ac less than the average 5-year yield for this location. The Horse Heaven spring nursery was located about 5 miles southwest of Prosser, WA (M. Schmitt, cooperator).
2. This nursery was seeded on 20 March, 2009 following summer fallow. Seed was placed at a 60#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was 40#N and soil test analysis showed an additional 110#N available. Spring seeding conditions were adequate and some spring rain made the outlook good for the spring crop until heading, when lack of moisture limited yield. The alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 262% compared to an RCBD design.
3. Yields ranged from 13 bu/ac to 17 bu/ac, with a CV of 12%. Yield values within the LSD range of the highest yield are shown in bold and 4 of the 24 entries are in this group. Club entries are listed in italicized print and the (HSR) designation is a 20% higher seeding rate for the club entries.
4. Test weights were good with an average of 60.7 lb/bu. Grain protein averaged 13.0% with a range of 12.0 to 13.9% and is higher than desired due to low yield and the available N at this site. The average plant height was 19 inches.