

## 2009 WSU EXTENSION SOFT WHITE SPRING WHEAT NURSERY AT DAYTON, 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
WAKANZ	56	62	55	<b>48</b>	56.5	12.7	25	168
NICK	54	57	52	<b>46</b>	59.0	13.2	24	163
ZAK	52	57	51	<b>45</b>	56.7	13.5	25	168
BZ604-002				44	59.1	13.3	24	164
WA008112				43	54.9	12.5	26	168
<i>EDEN (HSR)</i>				43	<b>59.7</b>	12.2	22	166
<i>JD (HSR)</i>				43	<b>59.5</b>	13.2	27	166
LOUISE	52	58	52	42	57.9	12.3	27	166
ALTURAS	49	51	47	42	57.2	12.3	23	166
BABE		55	48	42	58.2	12.7	24	167
<i>JD</i>		56	50	42	<b>59.4</b>	13.0	23	165
WA008090			52	41	58.2	12.5	26	168
<i>EDEN</i>	50	54	47	40	<b>59.5</b>	12.1	23	165
WA008089			49	40	57.7	12.3	26	168
WHIT		56	51	39	57.5	13.0	24	165
WA008108				39	<b>59.3</b>	13.6	24	165
WA008106				39	58.4	12.0	26	165
WA008039HF				36	58.5	12.7	24	165
CATALDO		48	41	35	57.4	13.2	21	163
WA008041		54	46	35	56.3	12.8	26	167
ALPOWA	50	54	45	34	57.6	12.5	25	168
WA008104				34	58.6	12.9	25	165
WA008059		50	42	30	56.9	14.6	24	165
WA008058			40	26	57.1	14.5	26	165
C.V. %	7	7	6	8	0.8	1.7	6	0
LSD <sup>1</sup> @ .10 <sup>1</sup>	2	3	3	4	0.6	0.3	2	1
Average	52	55	48	39	58.0	12.9	25	166
Highest	56	62	55	48	59.7	14.6	27	168
Lowest	49	48	40	26	54.9	12.0	21	163

1. Grain yield in the Dayton soft white spring wheat trial averaged 39 bu/ac, 13 bu/ac lower than the average 5-year yield for this location. The low yields at this site indicate below average conditions that were evident from emergence through harvest. Soil compaction is suspected to have contributed to limiting yield potential. The Dayton nursery was located about 6 miles north of Dayton, WA (Jay Penner, cooperator).
2. This nursery was seeded on 16 April, 2009 following winter wheat. Seed was placed at an 80#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was applied at 137#N, 10#P and 15#S per acre, and a spring soil test showed more than adequate available nutrients. Spring seeding conditions were good with moisture rated 6 out of 10 and spring rain made the early outlook good for the spring crop. For grain yield, the alpha lattice experimental design improved variation allocation during statistical analysis and the CV by 51% compared to an RCBD design.
3. Yields ranged from 26 bu/ac to 48 bu/ac, with a CV of 8%. Yield values within the LSD range of the highest yield are shown in bold and 3 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. Average test weights were lower than usual at 58.0 lb/bu. Grain protein was high and averaged 12.9% with a range of 12.0% to 14.6%. The average plant height was 25 inches, showing the limited plant growth at this site. No lodging occurred.