

**2010 WSU EXTENSION SOFT WHITE SPRING WHEAT NURSERY AT ST. JOHN, WA.**

Variety Name *Club Italized	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2010			
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT
<i>JD</i>		58	67	<b>48</b>	<b>56.8</b>	12.7	35
<i>JD +25%</i>			67	<b>45</b>	<b>57.0</b>	12.8	36
WHIT	67	66	67	<b>44</b>	55.0	12.0	32
WAKANZ	68	66	66	<b>43</b>	55.0	12.1	33
<i>EDEN +25%</i>			64	<b>43</b>	<b>56.6</b>	12.1	33
DIVA		63	68	<b>42</b>	54.9	12.3	35
WA008110				<b>42</b>	55.2	14.1	32
ALTURAS	63	58	64	<b>41</b>	55.1	11.7	35
WA008106			64	<b>41</b>	<b>56.2</b>	11.8	38
WA008124				<b>41</b>	<b>55.5</b>	12.9	36
<i>EDEN</i>	64	61	62	<b>40</b>	<b>56.8</b>	12.3	35
LOUISE	69	63	67	39	53.7	12.0	35
BABE		59	65	38	53.8	12.3	34
IDO671				38	55.1	12.2	34
WA008089		57	63	37	<b>56.0</b>	12.0	35
WA008107				37	<b>56.0</b>	12.2	33
IDO669				36	54.4	12.9	35
ALPOWA	67	61	59	35	53.7	12.4	34
ZAK	65	63	61	34	<b>56.4</b>	12.8	32
NICK	61	55	57	32	53.7	12.0	34
WA008113				31	54.0	12.4	35
IDO599				31	54.7	12.5	33
WA008105				30	54.4	12.6	33
CATALDO	56	48	51	26	54.0	12.5	33
C.V. %	9	11	9	16	2.4	3.7	6
LSD '@ .10'	3	5	5	9	1.8	0.6	3
Average	65	60	63	38	55.2	12.4	34
Highest	69	66	68	48	57.0	14.1	38
Lowest	56	48	51	26	53.7	11.7	32

**St. John Soft White Spring Wheat – Preliminary Data**

1. Grain yield in the St. John soft white spring wheat trial averaged 38 bushels/acre, 27 bushels/acre lower than the 5-year average for this site. The St. John nursery was located about three miles east of St. John, WA (Mac Miles, cooperator).
2. This nursery was seeded on 1 April, 2010 following winter wheat. Seed was placed at an 80#/acre seeding rate using a double-disc drill set on 6-inch spacing. Base applied fertilizer was 115#N/acre and an early spring soil test showed an additional 74#N/acre in the top 4 foot profile. Spring seeding and growing conditions were good, but early growth potential did not make yield because of dry conditions during grain filling and high levels of stripe rust on susceptible cultivars.
3. Yields ranged from 26 bu/ac to 48 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. The club variety JD was highest yielding variety. The lattice RCBD experimental design improved variation allocation during statistical analysis by 199% for yield. Despite that improvement, the CV was higher than desired, but entries were still significantly different (P=0.015).
4. Test weights were low averaging 55.2 lb/bu and ranged from 53.7 to 57.0 lb/bu. Grain protein was high and averaged 12.4% with a range of 11.7 to 14.1%. The average plant height was 34 inches.