

## 2010 WSU EXTENSION SOFT WHITE SPRING WHEAT NURSERY AT WALLA WALLA, 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	HEAD DATE
ALTURAS	66	79	100	<b>103</b>	57.6	13.6	42	154
WA008106			102	<b>103</b>	<b>60.1</b>	12.8	47	154
IDO599				<b>100</b>	54.7	13.9	41	153
IDO671				<b>95</b>	58.0	13.6	42	155
WA008124				<b>92</b>	55.7	14.5	44	160
IDO669				<b>92</b>	57.7	14.3	45	158
DIVA		77	92	90	56.5	13.5	41	158
JD		73	89	86	58.3	14.3	45	159
WA008089		78	94	85	56.6	13.6	43	158
EDEN +25%			89	83	57.6	13.6	41	158
JD +25%			90	82	58.3	14.1	44	158
EDEN	61	73	88	79	58.1	13.4	41	158
BABE		75	91	79	56.2	14.4	41	157
CATALDO	60	69	84	78	54.7	14.0	42	153
WA008110				75	55.0	15.0	40	161
LOUISE	65	72	85	74	54.2	13.9	43	159
WHIT	59	71	84	74	54.7	14.3	41	154
WA008105				74	56.5	13.7	39	156
WA008107				71	55.9	15.5	41	156
NICK	61	71	83	70	54.8	14.3	43	153
ALPOWA	61	69	83	67	54.7	14.4	39	159
WAKANZ	62	71	82	66	51.2	15.0	39	159
WA008113				66	54.8	14.3	42	159
ZAK	61	66	73	51	54.0	15.2	40	160
C.V. %	8	9	9	11	2.2	2.9	2	1
LSD '@ .10'	3	5	7	13	1.7	0.6	1	1
Average	62	73	88	81	56.1	14.1	42	157
Highest	66	79	102	103	60.1	15.5	47	161
Lowest	59	66	73	51	51.2	12.8	39	153

### Walla Walla Soft White Spring Wheat – Preliminary Data

1. Grain yield in the Walla Walla soft white spring wheat trial averaged 81 bushels/acre and that was 19 bushels/acre higher than the 5-year average for this site. The Walla Walla nursery was located just east of Waitsburg, WA (Glen Smith, cooperator).
2. This nursery was seeded on 5 March, 2010 following spring wheat. Seed was placed at an 80#/acre seeding rate using a double-disc drill set on 6-inch spacing. Base applied fertilizer was 142#N/acre and an early spring soil test showed an additional 619#N/acre in the top 4 foot profile. Spring seeding and growing conditions were good, but stripe rust was severe.
3. Yields ranged from 51 bu/ac to 103 bu/ac. Yield values within the LSD range of the highest yield are shown in bold and 6 of the 24 entries are in this group. Alturas was the highest yielding named variety in the trail. The lattice RCBD experimental design did little to improve variation allocation during statistical analysis for yield. Stripe rust was a strong factor in this trial with high infection levels for susceptible varieties before heading and all varieties showed infection.
4. Test weights averaged 56.1 lb/bu and ranged from 51.2 to 60.1 lb/bu. Grain protein averaged 14.1% with a range of 12.8 to 15.5%. The average plant height was 42 inches. High fertility and stripe rust contributed to low test weights, high protein and tall plants.