

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

Variety Name <small>*Club Italicized</small>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2010					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
<i>CARA</i>	158	156	174	178	59.9	11.5	8	47	159
<i>CARA +25%</i>				171	60.0	10.9	15	47	158
BRUNEAU		144	158	163	60.6	10.5	0	49	158
SKILES		147	158	163	60.6	11.9	0	43	158
<i>BRUEHL</i>	140	138	153	161	55.6	11.5	20	48	161
<i>CHUKAR</i>	153	150	167	156	58.5	11.1	17	50	160
<i>ARS970071-3C</i>			155	155	60.4	12.4	25	52	159
KCF9002				152	60.9	12.6	3	45	154
<i>CODA</i>	135	132	144	151	61.4	11.7	50	51	160
<i>CHUKAR +25%</i>				149	58.7	10.7	38	49	159
MADSEN	137	135	148	147	59.8	11.9	3	47	159
BZ6W02-616			149	145	58.9	10.7	37	46	151
LEGION		142	148	143	57.0	11.6	30	48	156
OR2040726			154	143	59.0	11.6	0	45	153
<i>BRUEHL +25%</i>				143	55.0	11.2	27	49	161
ORCF-102	143	138	149	142	58.9	11.2	0	50	156
WA008092			144	142	58.5	11.5	15	47	163
<i>ARS970163-4C</i>				140	59.8	11.4	0	50	161
OR2060395				140	57.5	11.4	0	44	155
<i>ARS970075-3C</i>		133	144	139	59.3	11.5	17	51	158
STEPHENS	140	133	142	138	58.2	12.0	0	43	154
ARS970170-2L			151	138	56.1	11.4	8	50	160
ARS960277L		140	141	137	57.7	11.4	5	50	159
SALUTE		133	137	136	58.1	11.7	0	50	158
AP 700 CL		135	145	136	56.9	12.0	0	47	155
<i>ARS970184-1C</i>				136	55.6	11.8	3	49	158
SIMON	139	137	144	132	59.0	11.5	0	47	158
REA STEPHENS				132	60.1	11.5	0	51	155
BRUNDAGE 96	141	135	141	130	58.0	11.9	15	46	157
GOETZE/SKILES				130	59.2	11.9	0	44	156
MADSEN/ROD	136	130	136	127	58.0	12.0	2	46	159
ROD	136	131	136	126	57.4	11.1	0	45	159
ELTAN/MADSEN		132	139	125	57.1	11.7	0	48	159
WB-528	140	134	138	124	58.3	11.5	18	45	153
GEORGE	134	127	131	122	55.3	12.0	50	50	162
BITTERROOT	135	122	128	121	57.8	11.2	2	50	159
WA008116				120	56.8	12.0	3	44	160
RJAMES	137	132	137	119	53.7	11.1	18	42	159
KCF9001				119	58.2	11.6	8	52	160
WA008117				118	55.7	12.1	0	45	160
WA008114				116	55.5	11.7	0	44	153
ORCF-103		126	133	115	55.7	11.4	0	47	160
WA008115				115	55.4	11.7	0	46	153
FINCH	134	128	131	114	56.1	11.7	0	48	162
UICF-BRUNDAGE		128	131	113	56.6	11.4	0	45	158
WA008093			127	113	55.6	12.3	0	47	158
KCF9003				112	59.4	11.9	58	59	155
ID00-475-2DH				110	55.2	11.2	0	45	160
ELTAN	127	119	125	108	55.4	11.3	30	47	162
ELTAN/TUBBS06		124	128	100	53.2	11.9	0	48	158
MASAMI	133	121	122	99	53.2	11.8	0	47	160
WA008094			117	99	55.1	11.7	13	51	161
TUBBS 06	142	130	133	96	51.9	11.5	0	50	156
WA008063		115	117	96	54.8	12.3	0	43	153

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				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
AP LEGACY		128	129	95	55.1	10.7	0	49	158
ROD/TUBBS06		123	125	95	53.7	12.0	0	48	157
XERPHA	142	127	123	85	50.8	12.7	0	49	159
DH99-55-2 (Soft Red)				80	52.4	11.3	22	52	153
LAMBERT	132	122	117	76	49.0	11.8	0	46	155
CDC PTARMIGAN			90	54	46.2	11.3	5	53	156
C.V. %	8	8	7	9	2.1	4.2	157	3	1
LSD '@ .10'	6	8	10	15	1.6	0.7	20	2	1
Average	139	132	138	126	56.8	11.6	9	48	158
Highest	158	156	174	178	61.4	12.7	58	59	163
Lowest	127	115	90	54	46.2	10.5	0	42	151

St. John Soft White Winter Wheat – Preliminary Data

1. Grain yield in the St. John soft white winter wheat trial averaged 126 bushels/acre, 13 bushels/acre lower than the 5-year average for this location. The St. John nursery was located about three miles east of St. John, WA (Mac Mills, cooperator).
2. This nursery was seeded on 18 September, 2009 following fallow. Seed was placed at an 85#/acre seeding rate using a double-disc drill set on 6-inch spacing. Base fertilizer was 90#N/acre. Fall seeding, emergence, and winter survival were good. There were high levels of stripe rust with large impacts on susceptible varieties and this lowered the trial average yield.
3. Yields ranged broadly from 54 bu/ac to 178 bu/acre. All yield values within the 10% LSD range of the highest yield are shown in bold and 2 of the 60 trial entries are in the top group. The club variety Cara was the highest yielding variety followed by Cara +25% that was seeded at a 25% higher seeding rate to see if the smaller seed of Cara should be seeded at a higher rate. So far, there has not been any consistent response to seeding rate for yield. However, the higher seeding rate produced more lodging. Last year the clubs Chukar and Cara topped this trial. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 53% for yield.
4. Test weights varied widely too and averaged 56.8 lb/bu with a range from 46.2 to 61.4 lb/bu.
5. Grain protein averaged 11.6% with a range of 10.5 to 12.7%. Plant height averaged 48 inches. Some cultivars lodged and values ranged from 0 to 58%.