

## 2010 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT DAYTON, WA.

Variety Name <small>*Club Italicized</small>				2010					
	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
<i>BRUEHL +25%</i>				179	58.6	10.1	0	46	160
<i>CARA +25%</i>				176	60.1	10.5	0	43	158
<i>CARA</i>	133	142	161	175	60.3	10.0	0	44	159
<i>CHUKAR +25%</i>				173	60.0	9.7	0	46	159
<i>BRUNEAU</i>		135	151	166	61.8	9.4	0	44	157
<i>BRUEHL</i>	127	131	140	165	58.4	10.9	0	44	160
<i>ARS970071-3C</i>			153	164	62.3	10.6	0	49	157
<i>ARS970075-3C</i>		133	147	163	61.9	9.8	0	46	158
<i>LEGION</i>		141	153	162	59.4	10.0	0	45	155
<i>CODA</i>	134	138	153	161	63.6	10.8	0	49	159
<i>CHUKAR</i>	131	135	150	161	60.1	9.8	0	47	159
<i>ARS960277L</i>		137	149	161	60.4	9.7	0	45	158
<i>SKILES</i>		134	147	158	62.1	11.2	0	41	157
<i>WA008092</i>			133	156	59.7	10.6	0	44	162
<i>ARS970163-4C</i>				156	60.3	9.6	0	45	160
<i>ARS970184-1C</i>				152	58.9	10.3	0	43	157
<i>BZ6W02-616</i>			152	150	62.2	9.7	0	43	151
<i>MADSEN</i>	127	131	145	148	60.8	11.0	0	43	158
<i>ROD</i>	135	137	147	148	58.4	10.6	0	43	159
<i>SIMON</i>	130	131	143	147	60.1	10.3	0	44	157
<i>WA008117</i>				146	60.3	10.3	0	41	159
<i>ORCF-102</i>	137	139	148	144	61.0	9.9	0	45	155
<i>WA008116</i>				142	60.5	10.0	0	41	159
<i>KCF9002</i>				142	62.1	11.7	0	41	154
<i>BRUNDAGE 96</i>	129	131	138	141	59.8	9.9	0	43	155
<i>GEORGE</i>	119	121	130	141	58.2	10.4	0	45	161
<i>ELTAN</i>	124	129	139	140	59.1	9.9	0	44	161
<i>ELTAN/MADSEN</i>		122	130	140	59.5	10.2	0	43	159
<i>SALUTE</i>		135	144	139	59.1	10.9	0	46	156
<i>KCF9001</i>				139	60.3	10.6	0	47	159
<i>OR2060395</i>				138	58.5	10.5	0	40	155
<i>STEPHENS</i>	128	128	137	136	59.4	11.0	0	40	154
<i>ORCF-103</i>		127	138	136	58.3	10.0	0	42	160
<i>WA008115</i>				135	59.6	10.1	0	42	152
<i>OR2040726</i>			136	132	60.3	10.9	0	40	155
<i>RJAMES</i>	127	130	137	131	56.1	10.3	0	39	158
<i>GOETZE/SKILES</i>				131	59.7	11.1	0	39	154
<i>BITTERROOT</i>	119	122	134	130	60.5	10.0	0	45	158
<i>UICF-BRUNDAGE</i>		123	129	130	59.3	10.0	0	41	157
<i>WB-528</i>	131	133	140	129	60.7	10.0	0	43	152
<i>AP 700 CL</i>		127	136	129	58.5	10.8	0	44	156
<i>XERPHA</i>	131	134	135	128	57.7	10.6	0	45	158
<i>WA008114</i>				128	58.8	10.4	0	41	152
<i>ARS970170-2L</i>			133	126	57.1	11.2	0	45	160
<i>ELTAN/TUBBS06</i>		125	132	125	57.0	10.3	0	45	157
<i>WA008094</i>			120	125	59.4	10.0	0	46	161
<i>REA STEPHENS</i>				125	60.1	11.1	0	46	154
<i>FINCH</i>	126	130	139	124	59.0	10.6	0	44	161
<i>MADSEN/ROD</i>	128	129	135	123	59.7	10.7	0	44	158
<i>ROD/TUBBS06</i>		129	135	123	57.0	10.5	0	45	157
<i>WA008093</i>			124	122	57.8	10.7	0	42	157
<i>MASAMI</i>	118	117	120	117	56.2	10.4	0	43	159
<i>WA008063</i>		120	123	116	58.2	11.1	0	41	153
<i>AP LEGACY</i>		130	135	110	56.2	9.8	0	47	158

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Variety Name <small>*Club Italicized</small>	5 YEAR	3 YEAR	2 YEAR	2010					
	AVERAGE (BU/A)	AVERAGE (BU/A)	AVERAGE (BU/A)	YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
<b>KCF9003</b>				109	60.6	10.7	0	51	154
<b>DH99-55-2 (Soft Red)</b>				102	56.5	9.9	0	49	153
<b>ID00-475-2DH</b>				102	58.8	10.3	0	43	158
<b>TUBBS 06</b>	124	120	127	100	54.8	10.6	0	45	156
<b>LAMBERT</b>	116	111	110	94	53.7	11.1	0	44	154
<b>CDC PTARMIGAN</b>			95	74	50.5	10.2	0	50	157
<b>C.V. %</b>	6	6	6	6	1.1	4.0	--	2	1
<b>LSD '@ .10'</b>	5	6	8	11	0.9	0.6	--	1	1
<b>Average</b>	127	130	137	138	59.2	10.4	0	44	157
<b>Highest</b>	137	142	161	179	63.6	11.7	0	51	162
<b>Lowest</b>	116	111	95	74	50.5	9.4	0	39	151

### Dayton Soft White Winter Wheat – Preliminary Data

1. Grain yield in the Dayton soft white winter wheat trial averaged 138 bushels/acre, 11 bushels/acre higher than the 5-year average. The Dayton nursery was located about five miles north of Dayton, WA (Jay Penner, cooperator).
2. This nursery was seeded on 24 September, 2009 following summer fallow. Seed was placed at an 85#/acre seeding rate using a double-disc plot drill set on 6-inch spacing. Base fertilizer was 110#N/acre and a spring soil test analysis showed 234#N/acre in a four-foot sample. Fall seeding conditions were dry and plants emerged after rainfall.
3. Yields ranged from 74 bu/ac to 179 bu/ac. All yield values within the 10% LSD range of the highest yield are shown in bold and 4 of the 60 entries in this trial are in the top group. The club variety Bruehl, at the +25% higher seeding rate, was the highest yielding entry in the trial, and 9 of the top 11 cultivars in the trail were clubs. Stripe rust was epidemic at this location and caused a large impact on performance for susceptible cultivars and generally the club cultivars were more resistant to stripe rust this year. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 61% for yield.
4. Test weights were highly variable probably due to stripe rust with an average of 59.2 lb/bu and ranged from 50.5 to 63.6 lb/bu.
5. Grain protein averaged 10.4% with a range of 9.4 to 11.7%. Plant height averaged 44 inches and there was no lodging.