

## 2009 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)	2009					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
<i>CHUKAR</i>	145	151	147	<b>178</b>	58.4	8.8	73	42	155
<i>CARA</i>	146	151	145	<b>170</b>	57.8	9.4	53	39	154
<b>TUBBS 06</b>		152	148	<b>169</b>	59.5	9.3	10	41	152
<b>OR2040726</b>				<b>166</b>	60.4	10.6	7	37	152
<b>ARS970170-2L</b>				164	60.0	9.7	42	40	155
<b>AP LEGACY</b>			145	163	60.1	9.6	8	42	155
<b>OR2060324</b>				163	57.6	10.1	17	33	157
<b>XERPHA</b>	140	157	147	161	58.5	9.8	52	39	155
<b>WB 523</b>		144	140	159	59.6	9.1	13	37	151
<b>OR2050293</b>				159	58.6	9.7	3	36	153
<b>LAMBERT</b>	137	149	145	157	58.8	10.0	60	42	151
<b>WB 456</b>		137	140	157	<b>61.4</b>	11.1	7	37	149
<b>ORCF-102</b>	135	143	135	156	60.9	10.6	20	41	153
<b>SIMON</b>	136	140	140	155	60.1	10.3	23	41	154
<b>RJAMES</b>	129	144	138	155	56.4	9.3	83	37	155
<b>ELTAN/TUBBS06</b>			136	155	58.7	10.3	37	41	154
<b>ID990435</b>		139	133	154	58.7	9.9	55	43	152
<b>ELTAN/MADSEN</b>		141	135	154	59.6	9.8	42	41	156
<b>ROD/TUBBS06</b>			138	154	58.8	9.7	35	41	153
<i>ARS970071-3C</i>				154	59.3	10.0	77	40	154
<b>BRUNDAGE 96</b>	134	145	138	153	58.8	11.0	0	39	154
<b>9364901A</b>		147	135	153	59.6	9.6	57	35	155
<b>AP 700 CL</b>		143	135	153	59.2	10.3	5	39	152
<b>SKILES</b>			139	153	59.5	10.4	3	37	155
<b>ORCF-103</b>		137	132	152	57.2	10.6	83	38	158
<b>LEGION</b>			141	152	58.1	10.1	47	40	155
<b>BZ6W02-616</b>				152	58.8	9.8	62	37	149
<b>WB-528</b>	131	142	138	151	59.8	10.3	53	38	150
<b>ID02-859</b>		143	135	150	59.1	10.4	3	37	154
<b>MADSEN</b>	130	131	129	149	60.4	10.3	0	40	155
<b>ORCF-101</b>	133	135	136	149	58.7	11.1	3	38	152
<b>FINCH</b>	134	138	134	148	60.8	9.9	18	37	156
<b>WB 1066M</b>			126	148	<b>61.9</b>	11.3	35	43	149
<b>ORI2060306</b>				148	59.6	10.8	0	38	152
<b>ROD</b>	128	140	134	147	55.6	9.0	67	37	155
<b>STEPHENS</b>	136	141	130	147	57.8	11.2	63	38	151
<b>WB 1020M</b>		134	131	147	59.3	10.0	28	38	156
<b>KCF08001</b>				147	58.9	10.1	47	39	150
<b>MADSEN/ROD</b>		137	131	146	58.4	9.7	25	39	156
<b>WA008092</b>				146	59.2	10.2	43	38	159
<b>MASAMI</b>	133	141	132	145	57.8	9.9	13	37	156
<i>BRUEHL</i>	123	132	127	144	55.3	9.7	83	40	157
<b>WA008066</b>			133	144	60.9	9.8	23	40	156
<b>ELTAN</b>	120	137	125	142	57.5	9.4	90	38	157
<i>ARS970168-2C</i>			124	142	<b>61.4</b>	10.6	23	38	155
<b>WA008064</b>			132	142	57.4	10.2	38	38	151
<b>WA008065</b>			132	142	59.4	10.0	13	39	153
<b>WA008093</b>				140	57.5	10.5	38	35	154
<b>GEORGE</b>	122	134	130	139	58.0	10.4	72	39	158
<b>WB 1070M</b>				139	<b>61.5</b>	11.0	27	37	149
<b>SALUTE</b>		138	132	138	57.1	10.3	67	39	154
<b>WA008063</b>			124	138	57.0	10.2	27	36	150
<i>CODA</i>	123	129	122	137	59.6	10.9	60	38	156
<b>CASHUP</b>	128	134	127	137	58.3	9.7	72	37	156

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Variety Name <small>*Club Italicized</small>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2009					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
<b>KCF08002</b>				136	57.9	10.7	52	37	151
<b>BITTERROOT</b>		140	123	135	59.7	9.9	10	40	155
<b>WA008094</b>				134	59.6	10.0	65	43	157
<b>CDC PTARMIGAN</b>				126	57.6	10.0	73	40	153
<b>C.V. %</b>	9	8	8	6	1.3	5.9	55	6	1
<b>LSD '@ .10'</b>	7	8	9	13	1.0	0.8	29	3	1
<b>Average</b>	132	141	134	150	58.9	10.1	38	39	154
<b>Highest</b>	146	157	148	178	61.9	11.3	90	43	159
<b>Lowest</b>	120	129	122	126	55.3	8.8	0	33	149

1. Grain yield in the St. John soft white winter wheat trial averaged 150 bu/ac, 18 bu/ac higher than the 5-year average yield at this location. The St. John nursery was located about 3 miles east of St. John, WA (Mac Mills, cooperator).
2. This nursery was seeded on 16 September, 2008 following fallow. Seed was placed at an 85#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was 90#N and 15#S (all per acre) applied in the fall. Seeding conditions were rated a 4 out of 10 for moisture, but produced good stands that overwintered well. Alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 28% compared to previously used designs.
3. Yields ranged from 126 bu/ac to 178 bu/ac, with a CV of 6%. Yield values within the LSD range of the highest yield are shown in bold and included four cultivars. Club variety names are designated by italicized print and the top two yields in the trial were from club varieties.
4. Test weights averaged of 58.9 lb/bu. Grain protein averaged 10.1% with a range of 8.8 to 11.3%. The average plant height was 39 inches.