

## 2009 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT CRESTON, 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
WA008092				150	58.1	10.2	0	37	169
ELTAN/TUBBS06			129	149	59.1	9.4	0	39	167
GEORGE	123	128	125	141	58.6	9.2	0	39	168
ELTAN/MADSEN		128	126	140	59.6	10.3	0	39	168
ARS970170-2L				140	59.6	9.6	0	37	168
FINCH	120	123	119	138	60.4	9.2	0	35	168
CDC PTARMIGAN				138	58.1	9.6	47	41	166
XERPHA	129	136	129	137	59.3	9.6	0	35	167
MASAMI	121	125	121	136	58.7	9.2	0	33	168
9364901A		128	120	134	59.2	9.2	0	32	166
TUBBS 06		124	118	133	59.0	10.1	0	37	166
ROD	120	127	120	130	58.4	9.3	0	33	167
BRUNDAGE 96	123	133		130	58.5	10.0	0	33	164
ROD/TUBBS06			126	129	58.9	9.9	0	38	167
ELTAN	116	122	120	127	59.2	9.6	0	38	167
ID990435		123	116	127	59.1	10.7	0	38	163
RJAMES	119	124	115	127	58.0	9.6	0	31	166
MADSEN/ROD		123	118	127	58.2	10.5	0	34	167
ID02-859		132		127	58.5	9.5	0	33	164
WA008094				127	59.7	10.2	0	38	168
<i>ARS970071-3C</i>				126	59.0	10.6	0	37	166
<i>BRUEHL</i>	116	123	115	124	58.9	10.6	0	36	168
WB 1020M		118	114	124	59.2	9.9	0	32	167
AP 700 CL		119	113	124	59.2	10.8	0	36	164
WA008066			113	123	60.5	9.5	0	35	168
AP LEGACY			114	123	59.7	9.8	0	36	165
OR2060324				121	56.0	9.5	0	33	168
MADSEN	113	118	115	120	59.3	10.9	0	35	167
BITTERROOT		117	108	119	57.8	10.0	0	36	168
SALUTE		124	113	119	57.9	10.2	0	34	164
WA008093				118	58.5	9.7	0	35	164
WA008064			109	117	60.4	10.3	0	32	162
OR2040726				116	58.9	9.5	0	30	163
WB 523		116	108	115	59.7	10.2	0	33	164
WA008063			106	114	60.4	10.3	0	31	161
<i>CODA</i>	110	113	103	113	60.8	10.1	0	36	167
STEPHENS	106	113	102	113	58.6	10.1	0	33	162
WB 456		109	102	113	61.1	11.0	0	31	160
ORCF-103		118	108	112	57.3	9.9	0	34	167
LAMBERT	113	115	101	111	59.0	9.8	0	36	163
LEGION			110	110	58.5	10.0	0	37	165
WB-528	111	113	101	106	60.0	10.2	0	33	161
ORCF-102	114	116	108	105	59.5	9.5	0	36	165
BZ6W02-616				105	60.2	10.5	0	33	161
<i>CHUKAR</i>	118	116		103	56.0	10.0	0	33	167
<i>ARS970168-2C</i>			102	103	58.2	10.9	0	29	167
SKILES			105	102	57.9	10.9	0	32	166
CASHUP	105	103	94	101	59.4	9.5	0	33	166
WB 1066M			92	101	60.3	10.7	0	35	162
<i>CARA</i>	116	117		96	56.3	9.5	0	29	167
ORI2060306				93	58.3	10.8	0	33	163
SIMON	111	108	98	92	57.4	10.6	0	32	166
WA008065			100	92	60.6	10.9	0	31	164
OR2050293				92	58.2	10.3	0	30	165

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				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
<b>KCF08002</b>				91	59.0	10.4	0	34	161
<b>KCF08001</b>				90	58.8	11.1	0	33	160
<b>WB 1070M</b>				87	<b>61.5</b>	11.6	0	31	160
<b>ORCF-101</b>	98	94	80	58	57.4	11.5	0	31	164
<b>C.V. %</b>	11	12	14	17	1.5	5.7	748	6	0
<b>LSD '@ .10'</b>	7	10	14	28	1.2	0.8	8	3	1
<b>Average</b>	115	120	111	117	58.9	10.1	1	34	165
<b>Highest</b>	129	136	129	150	61.5	11.6	47	41	169
<b>Lowest</b>	98	94	80	58	56.0	9.2	0	29	160

1. Grain yield in the Creston soft white winter wheat trial averaged 117 bu/ac, slightly higher than the 5-year average at this site. The Creston nursery was located about 5 miles north of Creston, WA (Jerry Krause, cooperator).
2. This nursery was seeded on 15 September, 2008 following summer fallow. Seed was placed at an 85#/acre seeding rate using a hoe plot drill set on 9-inch spacing. Base fertilizer was 80#N and 10#S applied in the fall. Seeding conditions produced good stands that overwintered well for varieties with adequate winter hardiness.
3. Alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 37% compared to previously used designs. However, there was a lot of variability within replications at this site. A lower area near the center of the trial resulted in poor crop performance, and is presumed to be related to high water saturation during spring growth. The high variability produced a 17% C.V. This C.V. is high enough to urge caution when interpreting yield results from this trial.
4. Yields ranged widely for this trial, from a low of 58 bu/ac to a high of 150 bu/ac. Yields within the LSD range of the highest yield are shown in bold and included 26 of the 60 cultivars in the trial. Club variety names are designated by italicized print.
5. Test weights averaged 58.9 lb/bu and ranged from 56.0 lb/bu to 61.5 lb/bu. Grain protein was good for soft white wheat and averaged 10.1% with a range of 9.2 to 11.6%. The average plant height was 34 inches.