

## 2009 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT FARMINGTON, 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
ORCF-102	139	136	137	150	60.9	11.8	10	43	162
ORI2060306				150	59.4	13.0	0	40	162
ORCF-101	129	124	130	146	59.3	12.6	7	41	161
OR2040726				145	60.0	11.9	3	38	160
<i>CARA</i>	116	107	110	144	58.0	12.1	0	38	163
AP 700 CL		131	131	144	58.2	12.2	8	41	161
AP LEGACY			129	144	60.5	11.6	5	43	162
OR2050293				144	57.9	12.4	3	37	162
XERPHA	134	129	136	143	58.7	12.1	25	41	163
WB 523		122	122	142	60.1	11.9	35	39	161
MADSEN/ROD		117	123	142	58.7	12.2	0	42	163
ROD	126	119	117	141	58.0	11.5	12	41	162
STEPHENS	119	115	117	141	59.0	11.4	13	39	159
CASHUP	125	118	122	141	59.2	11.5	30	40	163
9364901A		120	122	140	60.6	11.6	0	40	161
SALUTE		122	123	140	58.0	12.2	77	43	161
WA008093				140	57.5	12.3	0	40	161
OR2060324				140	56.9	11.2	0	37	163
<i>BRUEHL</i>	122	113	122	139	58.0	12.2	18	42	164
LAMBERT	130	125	130	139	59.7	11.4	37	43	160
WB-528	128	117	118	138	61.4	12.2	0	40	157
WA008063			114	138	58.1	12.4	0	38	158
TUBBS 06		111	114	137	58.3	11.9	32	43	161
WB 1066M			120	137	62.5	12.6	35	46	158
ROD/TUBBS06			124	137	58.4	11.6	12	42	162
FINCH	126	122	126	136	60.0	11.9	23	41	165
ID990435		128	126	136	57.8	12.7	65	45	160
LEGION			127	136	58.0	11.9	87	42	163
<i>CHUKAR</i>	118	106	108	135	57.7	12.1	27	41	162
SIMON	124	115	114	135	60.6	12.0	3	42	161
WB 456		115	113	135	61.5	12.9	0	40	158
WA008066			119	135	60.7	11.8	0	42	163
WB 1070M				135	61.6	12.8	0	39	155
BITTERROOT		110	114	134	60.7	12.0	37	43	163
SKILES			116	133	60.0	12.5	3	37	162
WA008065			120	132	59.5	12.8	32	40	161
ID02-859		117	125	131	57.8	11.8	20	41	162
ELTAN/MADSEN		119	118	131	59.6	12.1	27	42	163
WB 1020M		116	118	129	57.7	12.3	63	40	163
ELTAN/TUBBS06			118	129	58.3	12.0	68	42	162
RJAMES	113	109	116	128	56.0	11.8	70	36	161
MASAMI	111	114	117	127	58.1	11.6	5	42	164
<i>ARS970071-3C</i>				127	57.6	12.8	92	41	162
BRUNDAGE 96	120	115	117	126	59.1	12.0	0	39	161
WA008064			109	124	59.1	12.5	0	37	158
BZ6W02-616				124	59.5	12.1	53	40	156
ORCF-103		112	119	123	57.3	12.3	83	40	163
MADSEN	116	105	106	122	59.2	12.6	13	42	163
ELTAN	105	101	109	122	58.6	12.4	83	40	164
WA008092				122	57.6	12.7	70	39	165
<i>ARS970168-2C</i>			107	120	60.0	12.2	23	39	163
GEORGE	110	105	114	119	57.7	12.0	65	41	164
KCF08001				119	58.2	12.2	65	41	160
KCF08002				119	58.1	12.1	75	40	159

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Variety Name <i>*Club Italicized</i>	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>ARS970170-2L</b>				117	58.1	12.2	73	40	163
<b>WA008094</b>				116	58.6	12.7	68	42	164
<i>CODA</i>	113	104	99	115	58.8	12.9	93	40	164
<b>CDC PTARMIGAN</b>				103	57.8	11.6	99	44	162
<b>C.V. %</b>	9	11	8	8	1.3	3.3	70	3	1
<b>LSD '@ .10'</b>	6	9	9	14	1.0	0.5	30	2	1
<b>Average</b>	121	116	119	133	58.9	12.1	32	41	162
<b>Highest</b>	139	136	137	150	62.5	13.0	99	46	165
<b>Lowest</b>	105	101	99	103	56.0	11.2	0	36	155

1. Grain yield in the Farmington soft white winter wheat trial averaged 133 bu/ac, 12 bu/ac higher than the 5-year average yield at this location. The Farmington nursery was located about 1 mile south of Farmington, WA (Bruce Nelson, cooperator).
2. This nursery was seeded on 30 September, 2008 following lentils. Seed was placed at an 85#/acre seeding rate using a no-till drill using Cross-slot openers set on 10-inch spacing. Base fertilizer was 106#N, 20#P, and 20#S (all per acre) applied in the fall. Seeding moisture conditions were rated 5 out of 10, but produced good stands that overwintered well. Alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by only 2% compared to previously used designs, indicating low variability within replication.
3. Yields ranged from 103 bu/ac to 150 bu/ac, with a CV of 8%. Yield values within the LSD range of the highest yield are shown in bold and included 26 of the 58 cultivars listed. Club variety names are designated by italicized print.
4. Test weights averaged 58.9 lb/bu. Grain protein averaged 12.1% with a range of 11.2 to 13.0%. The average plant height was 41 inches. When the average plant height is over 40 inches and the average yield is over 120 bu/ac, there will be lodging in a variety trial. In this trial, lodging averaged 32% but ranged from 0 to 99% providing a good differential indication of lodging potential across cultivars.