

2009 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT MOSES LAKE, 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
BZ6W02-616				206	62.2	11.1	40	38	149
XERPHA	164	175	191	194	58.9	11.8	5	41	155
LAMBERT	169	176	191	193	59.5	12.0	20	40	151
OR2040726				193	59.7	12.0	0	36	152
OR2050293				192	58.0	11.7	0	36	154
ORCF-102	164	168	182	191	60.6	11.5	0	40	153
WB-528	167	174	187	191	61.7	11.8	3	37	150
KCF08002				189	60.3	12.0	0	38	150
ID990435		167	183	187	58.7	12.1	17	41	152
STEPHENS	162	175	189	187	58.7	11.6	5	38	153
WB 456		167	177	187	62.4	11.9	0	35	149
AP 700 CL		164	181	186	59.4	11.9	0	38	152
LEGION			189	186	59.0	11.6	63	40	153
WA008065			189	185	60.2	12.5	0	38	152
WB 1070M				184	63.1	12.3	0	34	149
WB 1066M			168	183	62.7	12.6	5	41	149
WB 523		166	175	181	60.2	11.8	17	37	153
<i>BRUEHL</i>	149	157	176	180	57.3	12.5	28	38	157
9364901A		165	178	180	60.4	11.1	0	37	154
AP LEGACY			175	180	58.6	11.6	0	40	155
BRUNDAGE 96	155	162	171	179	59.1	11.6	3	37	153
ELTAN/MADSEN		162	170	179	59.6	11.9	72	40	155
CDC PTARMIGAN				178	59.5	11.3	90	43	153
SIMON	162	162	182	177	59.5	11.8	0	38	152
TUBBS 06		168	182	177	58.5	12.0	37	41	155
WA008063			181	176	59.6	11.9	0	35	150
SALUTE		163	181	172	57.7	12.1	50	39	154
ROD/TUBBS06			176	172	58.1	11.8	17	39	154
KCF08001				172	58.8	12.3	30	37	151
ELTAN	135	155	167	171	59.6	12.2	92	40	156
BITTERROOT		157	175	171	59.7	11.4	13	41	155
CASHUP	149	153	168	171	59.6	12.0	30	38	155
WB 1020M		155	171	169	58.4	11.9	18	37	154
ORCF-103		159	171	169	59.5	12.0	85	37	157
ELTAN/TUBBS06			169	169	59.4	12.0	83	37	154
ARS970170-2L				169	58.3	12.5	58	38	155
WA008093				168	58.5	11.9	0	38	153
MADSEN	157	158	171	167	59.2	12.1	0	38	155
ROD	151	159	176	167	58.0	12.2	33	37	156
MADSEN/ROD		156	172	167	58.8	11.8	7	37	155
WA008064			178	164	59.7	12.0	0	34	150
SKILES			166	164	58.3	12.3	0	34	154
<i>ARS970071-3C</i>				164	60.2	12.7	42	38	154
MASAMI	146	154	165	162	57.5	11.5	25	41	157
ID02-859		154	161	161	58.4	12.2	7	36	153
<i>CHUKAR</i>	143	143	154	160	57.6	12.8	7	39	155
ORCF-101	144	148	163	160	58.2	12.5	0	36	155
WA008066			166	159	58.8	12.3	10	39	157
RJAMES	145	148	166	158	56.6	11.6	88	33	154
<i>ARS970168-2C</i>			157	158	60.9	11.6	0	36	153
ORI2060306				158	57.8	12.8	7	37	156
WA008092				157	57.5	12.0	38	41	158
WA008094				157	59.3	12.3	60	42	156
<i>CODA</i>	135	140	152	155	60.3	12.8	57	38	155

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				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
OR2060324				146	55.7	11.9	0	34	157
FINCH	135	140	155	145	57.9	12.5	3	38	158
<i>CARA</i>	144	144	151	144	56.7	13.3	0	36	156
GEORGE	126	137	146	135	56.4	12.1	77	39	157
C.V. %	8	6	6	7	1.5	2.8	78	4	1
LSD '@ .10'	7	7	8	16	1.2	0.5	24	2	1
Average	150	158	173	172	59.1	12.0	23	38	154
Highest	169	176	191	206	63.1	13.3	92	43	158
Lowest	126	137	146	135	55.7	11.1	0	33	149

1. Grain yield in the Moses Lake irrigated soft white winter wheat trial averaged 172 bu/ac, 15% higher than the 5-year average for this site. The Moses Lake nursery was located about 6 miles south east of Moses Lake, WA (Ranee Bergeson, cooperator).
2. This nursery was seeded on 22 October, 2008 following a crop of onions. Seed was placed at an 85#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was 100#N, 25#K, and 25#P applied in the fall. An additional 100#N was applied through the sprinkler irrigation system during the growing season. Seeding conditions produced good stands that overwintered well with only noticeable winter injury to the most vulnerable varieties. Alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 46% compared to previously used designs.
3. Yields ranged from 135 bu/ac to 206 bu/ac, with a CV of 7%. Yield values within the LSD range of the highest yield are shown in bold and included seven cultivars. Club variety names are designated by italicized print.
4. Test weights were variable with an average of 59.1 lb/bu and ranged from 55.7 to 63.1 lb/bu. Lodging was highly variable with some cultivars expressing lodging early, and this may have contributed to some of the low test weights. Grain protein averaged 12.0% with a range of 11.1% to 13.3%. The average plant height was 38 inches.