

2009 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT DAYTON, 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
AP LEGACY			139	160	60.3	11.0	0	38	152
TUBBS 06		126	130	155	59.3	11.5	0	39	152
FINCH	125	124	133	154	61.4	11.9	0	38	155
BZ6W02-616				154	61.3	11.2	0	35	147
ORCF-102	135	130	136	152	61.4	12.0	0	37	153
WB-528	134	127	135	152	61.7	11.9	0	34	148
WB 523		121	131	152	61.7	10.9	0	36	152
WB 1070M				150	62.9	12.3	0	34	147
SALUTE		130	133	149	58.6	11.8	0	39	152
<i>CARA</i>	124	120	126	146	59.2	11.0	0	36	153
ROD	131	129	132	146	59.3	11.5	0	34	154
MADSEN/ROD		126	132	146	59.4	12.2	0	36	154
ROD/TUBBS06			132	146	59.1	11.6	0	37	153
<i>CODA</i>	124	123	126	144	61.8	12.0	10	38	155
RJAMES	126	126	129	144	57.5	11.4	53	34	153
AP 700 CL		118	126	144	59.4	12.2	0	37	152
OR2050293				144	60.3	10.5	0	35	150
ID990435		119	122	143	59.6	10.9	0	39	151
LEGION			131	143	58.4	12.0	10	39	154
MADSEN	123	118	122	142	60.4	12.7	0	36	154
XERPHA	128	132	137	142	59.3	12.0	20	38	154
<i>ARS970071-3C</i>				142	61.8	11.7	3	41	154
WB 456		121	126	141	61.8	12.8	0	33	148
ORCF-103		120	123	140	60.1	12.0	50	36	155
WA008065			124	140	60.8	12.3	0	36	152
WA008066			123	140	61.7	12.0	0	38	156
ELTAN/TUBBS06			124	140	59.9	11.6	7	38	152
OR2040726				140	61.0	11.9	0	32	150
<i>CHUKAR</i>	124	118	123	139	59.7	11.1	0	37	153
SIMON	126	122	122	139	61.2	11.5	0	36	152
WB 1066M			121	139	63.0	12.7	0	42	147
ARS970170-2L				139	59.4	12.3	7	40	154
KCF08002				139	59.0	11.8	0	37	148
ELTAN	118	121	123	138	60.4	11.9	50	37	157
STEPHENS	126	121	123	138	59.0	12.0	0	35	150
ORCF-101	122	124	129	138	60.3	12.5	3	36	151
WA008064			126	138	59.8	11.5	0	35	150
BITTERROOT		112	118	137	61.4	11.3	0	39	154
9364901A		119	120	137	61.2	11.2	0	36	153
OR2060324				137	57.5	11.0	0	34	155
ORI2060306				136	60.4	12.5	0	34	152
SKILES			123	135	60.8	12.4	0	34	154
BRUNDAGE 96	125	124	125	134	60.3	11.9	0	35	153
KCF08001				133	58.7	12.0	0	36	149
<i>ARS970168-2C</i>			113	131	62.4	11.6	0	36	154
CASHUP	114	107	114	130	61.0	11.0	0	34	154
WA008063			122	130	59.1	11.8	0	33	150
ID02-859		118	120	128	59.7	12.6	0	35	153
WA008093				127	59.3	11.7	0	35	152
LAMBERT	122	118	119	126	58.2	11.7	0	38	151
MASAMI	118	117	117	123	58.6	12.0	13	38	156
WB 1020M		108	111	123	59.7	12.5	0	34	155
GEORGE	108	112	112	120	58.7	12.8	80	38	156
ELTAN/MADSEN		115	113	120	60.3	12.3	17	38	154

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				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
<i>BRUEHL</i>	116	114	115	116	57.8	12.4	37	38	155
CDC PTARMIGAN				115	58.9	11.4	20	40	153
WA008094				114	60.2	12.4	13	40	155
WA008092				111	58.8	12.7	17	37	157
C.V. %	7	7	6	6	1.0	5.0	145	4	1
LSD '@ .10'	4	6	6	12	0.8	0.8	13	2	1
Average	123	121	125	138	60.1	11.9	7	37	153
Highest	135	132	139	160	63.0	12.8	80	42	157
Lowest	108	107	111	111	57.5	10.5	0	32	147

1. Grain yield in the Dayton soft white winter wheat trial averaged 138 bu/ac, 12% higher than the 5-year average for this site. The Dayton nursery was located about 6 miles north of Dayton, WA (Jay Penner, cooperator).
2. This nursery was seeded on 24 September, 2008 following summer fallow. Seed was placed at an 85#/acre seeding rate using a double disc drill set on 6-inch spacing. Base fertilizer was 144#N, 10#P, 15#S, and 10#Cl applied in the fall. Seeding conditions 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. At this site a significant stripe rust infestation was observed in the middle of June. Susceptible cultivars, and some cultivars with high-temperature adult plant resistance (HTAP) were showing extensive leaf cover by stripe rust. The cool temperatures of early June had not allowed the HTAP to 'kick in', but later warmer temperatures the last week of June allowed expression of HTAP resistance. Dr. Chen rated the nursery for stripe rust. Susceptible varieties should have expressed yield loss from stripe rust.
3. Yields ranged from 111 bu/ac to 160 bu/ac, with a CV of 6%. Yield values within the LSD range of the highest yield are shown in bold and included nine cultivars. Club variety names are designated by italicized print.
4. Test weights were good with an average of 60.1 lb/bu. Grain protein averaged 11.9% with a range of 10.5 to 12.8%. The average plant height was 37 inches.