2009 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT ST. ANDREWS, WA.

Variety Name *Club Italicized	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2009 YIELD (BU/A)	2009 TEST WT (LBS/BU)	2009 PROTEIN (%)	2009 LODGING (%)	2009 PLANT HT	2009 HEAD DATE
CHUKAR	- -	37	39	**43**	57.7	10.0	0	29	159
ARS970071-3C	- -			**42**	59.0	11.0	0	31	158
WB 1020M	- -	39	42	**38**	59.6	9.4	0	29	158
CARA	- -	36	35	37	57.4	11.1	0	26	158
XERPHA	- -	43	42	37	58.7	9.2	0	31	157
WB-528	- -	33	33	35	60.0	10.7	0	30	152
OR2060324	- -			35	54.7	9.7	0	26	158
CODA	- -	36	36	34	60.0	10.1	0	28	158
ID02-859	- -	38	36	34	58.1	10.2	0	29	156
ARS970168-2C	- -		35	33	**60.4**	10.9	0	27	157
MADSEN/ROD	- -	37	37	31	58.2	10.5	0	29	158
ROD/TUBBS06	- -		36	31	58.3	10.7	0	32	159
FINCH	- -	42	42	30	60.0	10.0	0	29	159
MASAMI	- -	40	37	30	58.5	10.2	0	29	159
GEORGE	- -	44	46	30	58.3	10.0	0	29	159
9364901A	- -	33	31	30	59.5	10.4	0	29	158
SKILES	- -		37	30	59.1	10.6	0	28	159
ARS970170-2L	- -			30	59.0	10.7	0	31	159
BRUEHL	- -	41	41	29	59.2	10.8	0	30	159
ELTAN	- -	46	44	29	59.6	9.7	0	33	157
BRUNDAGE 96	- -	39	36	29	57.6	10.5	0	28	155
ORCF-103	- -	40	37	29	59.0	9.6	0	31	159
AP LEGACY	- -		34	29	58.9	10.1	0	29	157
CDC PTARMIGAN	- -			29	58.1	10.5	0	33	157
OR2040726	- -			29	58.3	10.4	0	27	155
KCF08001	- -			29	59.0	10.6	0	30	152
MADSEN	- -	35	34	28	58.9	10.8	0	29	159
LAMBERT	- -	39	37	28	58.4	9.4	0	34	154
ORCF-101	- -	34		28	58.7	10.6	0	31	156
WA008065	- -		36	28	**60.4**	11.8	0	29	156
LEGION	- -		34	28	59.3	10.6	0	34	156
ELTAN/TUBBS06	- -		41	28	58.6	10.5	0	33	159
KCF08002	- -			28	58.2	11.3	0	31	152
ORI2060306	- -			28	59.6	11.1	0	30	155
ROD	- -	41	40	27	58.0	10.9	0	28	159
ORCF-102	- -	36	34	27	59.6	10.3	0	32	157
WA008066	- -		35	27	60.1	10.0	0	29	159
WB 1066M	- -		30	27	60.0	11.0	0	32	153
SIMON	- -	33	28	26	59.2	10.5	0	30	157
TUBBS 06	- -	35	33	26	58.3	10.1	0	31	157
RJAMES	- -	39	38	26	57.6	10.0	0	28	158
SALUTE	- -	38	37	26	55.7	10.7	0	30	156
ELTAN/MADSEN	- -	38	37	26	59.1	10.2	0	31	159
WA008064	- -		28	26	59.9	11.6	0	29	153
WA008092	- -			26	58.8	10.7	0	32	159
WA008094	- -			26	60.0	9.6	0	32	159
BITTERROOT	- -	33	31	25	59.6	10.7	0	32	159
ID990435	- -	34	30	25	58.5	9.9	0	35	154
STEPHENS	- -	32	28	25	58.7	11.1	0	31	153
CASHUP	- -	35	35	25	58.6	10.7	0	29	159
AP 700 CL	- -	34	29	25	58.5	11.5	0	31	156
WB 523	- -	33	31	23	59.6	10.7	0	30	155
OR2050293	- -			22	56.4	11.1	0	28	156
WB 1070M	- -			22	**61.2**	13.8	0	29	151

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WA008093	- -			21	59.4	11.4	0	29	155
BZ6W02-616	- -			21	**61.1**	11.2	0	32	151
WB 456	- -	27	22	20	**60.8**	11.5	0	29	151
WA008063	- -		23	20	59.1	12.5	0	28	152
C.V. %	- -	17	17	15	1.1	7.0	- -	6	1
LSD '@ .10'	- -	4	5	6	0.9	1.0	- -	2	1
Average	- -	37	35	29	58.9	10.6	0	30	157
Highest	- -	46	46	43	61.2	13.8	0	35	159
Lowest	- -	27	22	20	54.7	9.2	0	26	151

1. Grain yield in the St. Andrews soft white winter wheat trial averaged 29 bu/ac, 8 bu/ac lower than the 3-year average. In the week prior to harvest, a hail storm struck the area and caused significant crop loss. The study site incurred hail loss that is hard to quantify, but was probably greater than 20%. Reported field losses from hail in the area were 20% to 50%. There is also the strong possibility that cultivars were impacted by hail differently based on head type, orientation, size, awns, etc. The results show that club varieties did notably well, but the influence of hail on those results is not known. The St. Andrews nursery was located about 7 miles west of Coulee City, WA (Larry Tanneberg, cooperator).
2. This nursery was seeded on 5 September, 2008 following summer fallow. Seed was placed at a 45#/acre seeding rate using a deep furrow plot drill with split packer openers set on 15-inch spacing. Base fertilizer was 65#N and 8#S. Growing conditions caused some gaps in individual plots. When appropriate, gaps were subtracted from the plot areas to maintain equivalent comparisons. Alpha lattice experimental designs improved variation allocation during statistical analysis and the CV by 59% compared to previously used designs.
3. Yields ranged from 20 bu/ac to 43 bu/ac, with a CV of 15%. Yield values within the LSD range of the highest yield are shown in bold. There were five cultivars in the highest group, three of which were clubs. Club variety names are designated by italicized print.
4. Test weights were variable with an average of 58.9 lb/bu and ranged from 54.7 lb/bu to 61.3 lb/bu
5. Grain protein averaged 10.6% also with a large range of 9.2 to 13.8%. The average plant height was 30 inches.