2009 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT FAIRFIELD, 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
XERPHA	115	101	94	**111**	59.7	10.9	0	32	162
LEGION			98	**111**	59.2	11.1	0	35	161
ARS970170-2L				**103**	59.7	11.5	0	33	162
OR2060324				**102**	57.9	10.5	0	28	162
ELTAN	111	100	97	**100**	60.6	10.9	0	34	162
ELTAN/TUBBS06			91	**99**	59.3	11.2	0	35	162
CHUKAR	103	87	81	**98**	58.4	11.0	0	29	161
FINCH	101	87	82	**98**	60.6	11.4	0	32	163
MASAMI	106	92	86	**98**	59.2	10.7	0	33	163
ORCF-103		103	98	**98**	60.1	11.5	0	32	163
ORCF-102	119	105	100	97	60.2	11.3	0	32	160
WA008064			83	97	59.4	11.7	0	29	157
WB 523		95	88	96	60.5	11.2	0	30	158
9364901A		94	84	96	60.4	10.8	0	32	161
ROD/TUBBS06			85	95	58.6	11.5	0	33	161
ELTAN/MADSEN		91	85	94	59.8	11.9	0	33	162
WB 1066M			84	94	**61.5**	11.5	0	33	157
OR2040726				94	59.2	10.9	0	29	157
CASHUP	104	87	83	93	59.9	10.9	0	28	160
AP LEGACY			90	93	60.3	11.1	0	31	160
ROD	106	89	80	92	58.7	10.9	0	30	161
BITTERROOT		87	78	92	60.2	11.7	0	33	162
ORCF-101	112	97	91	92	59.4	11.3	0	32	160
WB 456		87	79	92	**61.2**	11.8	0	31	155
GEORGE	110	95	90	92	59.0	11.6	0	35	163
BRUNDAGE 96	110	93	86	91	58.7	11.1	0	31	160
WB 1020M		97	95	91	**61.3**	10.5	0	30	161
AP 700 CL		98	93	91	60.2	10.9	0	31	159
ID02-859		94	87	91	59.1	11.5	0	29	161
SKILES			84	91	59.5	12.1	0	32	161
CDC PTARMIGAN				91	59.7	10.5	0	36	160
CARA	102	82	76	90	59.1	10.9	0	27	161
WB-528	104	90	81	90	60.7	11.1	0	31	155
WA008065			84	90	60.6	11.4	0	31	159
BRUEHL	105	89	83	88	59.5	11.2	0	32	163
LAMBERT	107	91	84	88	60.4	11.0	0	33	156
SALUTE		90	82	88	58.8	11.0	0	31	159
WA008092				88	60.4	11.3	0	31	163
WA008093				88	59.7	11.4	0	29	159
KCF08001				88	59.8	11.7	0	30	156
STEPHENS	104	86	78	87	60.0	11.0	0	29	156
MADSEN/ROD		92	84	87	59.5	11.3	0	31	162
WA008063			80	87	60.6	11.0	0	27	156
ORI2060306				87	60.0	11.4	0	30	161
MADSEN	102	86	78	86	60.2	11.3	0	30	162
SIMON	102	86	73	86	60.1	11.3	0	31	159
WA008066			74	86	60.9	11.4	0	30	163
ARS970071-3C				86	60.5	11.0	0	31	161
WA008094				86	59.2	11.8	0	32	162
OR2050293				86	59.5	11.2	0	29	160
TUBBS 06		87	79	84	59.4	10.8	0	33	161
ARS970168-2C			80	84	**61.9**	11.5	0	30	162
ID990435		91	83	81	59.5	11.1	0	35	158
RJAMES	108	89	80	80	59.1	11.2	0	30	161

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CODA	101	85	75	77	**61.3**	11.5	0	29	162
KCF08002				77	60.0	11.4	0	29	156
BZ6W02-616				76	61.0	11.4	0	31	156
WB 1070M				76	**61.5**	12.5	0	29	155
C.V. %	10	10	12	11	1.2	4.1	- -	6	1
LSD '@ .10'	5	7	9	14	0.9	0.6	- -	3	2
Average	107	92	85	91	59.9	11.3	0	31	160
Highest	119	105	100	111	61.9	12.5	0	36	163
Lowest	101	82	73	76	57.9	10.5	0	27	155

1. Grain yield in the Fairfield soft white winter wheat trial averaged 91 bu/ac, 16 bu/ac lower than the 5-year average yield at this location. The Fairfield nursery was located about 3 miles northwest of Fairfield, WA (Al Anderberg, cooperator).
2. In previous years, the trial at this location followed a grain legume crop. Previous work shows that wheat after wheat does not perform as well as wheat following a legume crop, and this helps explain the lower than average yield for this trial. Also at this location, previous results show that Clearfield varieties out-performed other varieties and no Beyond was applied. This indicates that there could be carryover herbicide from previous crop(s). We did not want that complication for the trial and thus the wheat after wheat crop sequence for this trial.
3. This nursery was seeded on 29 September, 2008 following winter wheat. 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 and 15#S (per acre) 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 41% compared to previously used designs.
4. Yields ranged from 76 bu/ac to 111 bu/ac, with a CV of 11%. Yield values within the LSD range of the highest yield are shown in bold and included 11 cultivars and blends. Club variety names are designated by italicized print.
5. Test weights were good with an average of 59.9 lb/bu. Grain protein averaged 11.3% with a range of 10.5 to 12.5%. The average plant height was 31 inches.