

## 2010 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT HARRINGTON, WA.

Variety Name <small>*Club Italicized</small>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2010					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
XERPHA	--	--	--	59	59.2	11.5	0	36	161
<i>CHUKAR +25%</i>	--	--	--	58	59.1	10.6	0	38	162
<i>CARA</i>	--	--	--	56	58.3	11.7	0	35	161
GEORGE	--	--	--	56	58.1	11.6	0	36	163
<i>BRUEHL +25%</i>	--	--	--	56	57.8	11.0	0	37	163
TUBBS 06	--	--	--	55	58.6	11.3	0	39	157
<i>CHUKAR</i>	--	--	--	54	58.7	10.7	0	38	161
MASAMI	--	--	--	53	58.2	11.8	0	36	162
BRUNDAGE 96	--	--	--	53	58.4	11.9	0	34	158
ORCF-102	--	--	--	53	58.5	12.3	0	36	159
WA008093	--	--	--	53	58.4	12.1	0	36	160
<i>ARS970075-3C</i>	--	--	--	52	59.3	12.6	0	38	160
<i>CARA +25%</i>	--	--	--	52	59.0	11.9	0	32	162
ARS960277L	--	--	--	51	58.2	11.6	0	37	161
<i>ARS970071-3C</i>	--	--	--	51	59.7	12.7	0	37	160
<i>ARS970163-4C</i>	--	--	--	51	59.5	11.9	0	36	163
<i>CODA</i>	--	--	--	50	60.5	11.9	0	39	162
<i>BRUEHL</i>	--	--	--	50	57.7	11.7	0	37	163
ELTAN	--	--	--	50	58.3	11.5	0	36	162
WA008094	--	--	--	50	59.7	12.0	0	38	163
MADSEN	--	--	--	49	58.2	12.6	0	37	161
ELTAN/MADSEN	--	--	--	49	59.3	11.8	0	37	161
AP LEGACY	--	--	--	49	58.9	11.4	0	35	160
WA008092	--	--	--	49	58.8	12.1	0	36	163
DH99-55-2 (Soft Red)	--	--	--	49	59.6	11.4	0	40	154
SKILES	--	--	--	48	59.7	13.0	0	33	159
WA008115	--	--	--	48	59.9	12.7	0	30	156
GOETZE/SKILES	--	--	--	48	58.6	13.5	0	34	158
MADSEN/ROD	--	--	--	47	58.3	12.1	0	36	161
ELTAN/TUBBS06	--	--	--	47	57.8	12.1	0	36	160
ARS970170-2L	--	--	--	47	56.9	12.6	0	36	162
WA008116	--	--	--	47	58.1	12.6	0	33	162
KCF9002	--	--	--	47	60.0	13.4	0	33	157
FINCH	--	--	--	46	59.0	12.1	0	37	164
BITTERROOT	--	--	--	46	58.2	12.4	0	35	161
WB-528	--	--	--	46	60.6	12.5	0	35	157
WA008063	--	--	--	46	60.4	13.3	0	31	156
LEGION	--	--	--	46	57.4	12.3	0	36	159
CDC PTARMIGAN	--	--	--	46	58.9	11.3	0	40	156
ROD	--	--	--	45	56.7	12.0	0	33	162
SALUTE	--	--	--	45	56.4	12.5	0	34	160
ROD/TUBBS06	--	--	--	45	58.2	12.1	0	38	160
WA008117	--	--	--	45	57.4	13.0	0	31	163
ID00-475-2DH	--	--	--	45	59.6	13.0	0	35	161
RJAMES	--	--	--	44	56.1	12.1	0	31	161
ORCF-103	--	--	--	44	57.8	12.9	0	32	162
UICF-BRUNDAGE	--	--	--	44	55.8	13.3	0	33	159
LAMBERT	--	--	--	43	58.6	12.2	0	37	156
OR2060395	--	--	--	43	57.2	12.7	0	32	159
AP 700 CL	--	--	--	42	58.4	13.0	0	35	156
<i>ARS970184-1C</i>	--	--	--	42	59.6	12.5	0	33	160
KCF9001	--	--	--	41	58.8	12.0	0	37	162
SIMON	--	--	--	40	58.6	13.0	0	33	160
OR2040726	--	--	--	40	58.0	13.0	0	33	157

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				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
BRUNEAU	--	--	--	39	57.9	12.4	0	33	160
STEPHENS	--	--	--	37	57.8	12.9	0	31	156
WA008114	--	--	--	37	<b>60.1</b>	13.3	0	34	154
KCF9003	--	--	--	37	58.9	12.7	0	41	160
REA STEPHENS	--	--	--	35	57.1	13.2	0	35	159
BZ6W02-616	--	--	--	32	<b>60.8</b>	13.6	0	35	152
C.V. %	--	--	--	15	2.0	5.9	--	6	1
LSD '@ .10'	--	--	--	9	1.6	1.0	--	3	2
Average	--	--	--	47	58.6	12.3	0	35	160
Highest	--	--	--	59	60.8	13.6	0	41	164
Lowest	--	--	--	32	55.8	10.6	0	30	152

### Harrington Soft White Winter Wheat – Preliminary Data

1. Grain yield in the Harrington soft white winter wheat trial averaged 47 bushels/acre. Because there was no 2009 data at Harrington, there are no multi-year data summarized. The Harrington nursery was located about five miles west of Harrington, WA (Mark Kramer, cooperator).
2. This nursery was seeded on 10 September, 2009 following summer fallow. Seed was placed at a 45#/acre seeding rate using a deep furrow plot drill set on 15-inch spacing. Base fertilizer was 60#N. Fall seeding conditions, emergence, and stand establishment were adequate.
3. Yields ranged from 32 bu/ac to 59 bu/acre. All yield values within the 10% LSD range of the highest yield are shown in bold and 16 of the 60 trial entries are in the top group. Xerpha was the highest yielding cultivar in the trial. Stripe rust was moderate at this location with low impact. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 275% for yield. Even with this large benefit from the lattice design the CV was 14.8%. There was a lot of yield variation within this trial and the lattice design accounted for some of that variability to allow significant separation of variety performance. Moisture variation in dryland locations is often associated with this type of yield variability.
4. Test weights were okay with an average of 58.6 lb/bu and ranged from 55.8 to 60.8 lb/bu.
5. Grain protein was higher than desired and averaged 12.3% with a range of 10.6 to 13.6%. Plant height averaged 35 inches.