

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

Variety Name <small>*Club Italicized</small>	5 YEAR	3 YEAR	2 YEAR	2010					
	AVERAGE (BU/A)	AVERAGE (BU/A)	AVERAGE (BU/A)	YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
<i>CHUKAR +25%</i>	--			64	62.8	11.1	0	33	144
<i>CHUKAR</i>	--	33	37	56	62.6	11.9	0	32	144
MASAMI	--	35	43	55	62.8	11.7	0	35	144
<i>CARA +25%</i>	--			55	62.4	12.1	0	30	144
<i>CODA</i>	--	32	36	53	63.7	13.5	0	34	145
<i>BRUEHL</i>	--	35	41	53	62.1	12.3	0	36	145
FINCH	--	34	42	53	63.2	12.5	0	32	147
<i>ARS970075-3C</i>	--	35	45	53	63.2	12.6	0	32	143
<i>ARS970163-4C</i>	--			52	62.9	12.2	0	34	145
XERPHA	--	35	39	51	62.1	12.3	0	34	144
UICF-BRUNDAGE	--	31	37	51	62.2	12.6	0	30	141
DH99-55-2 (Soft Red)	--			51	62.6	11.9	0	37	139
ARS970170-2L	--		42	50	61.9	12.3	0	33	145
ORCF-103	--	35	42	49	62.0	12.4	0	32	143
WA008092	--		42	49	61.0	12.5	0	33	147
WA008116	--			49	62.2	12.5	0	29	146
<i>BRUEHL +25%</i>	--			49	62.1	12.1	0	36	144
RJAMES	--	31	39	48	61.3	11.7	0	30	142
WA008093	--		37	48	62.8	12.6	0	33	143
ELTAN/MADSEN	--	33	39	47	62.1	12.7	0	33	145
ARS960277L	--	29	34	47	62.4	12.4	0	33	144
ELTAN/TUBBS06	--	34	40	47	62.7	12.3	0	34	141
ID00-475-2DH	--			47	62.7	13.2	0	32	144
<i>CARA</i>	--	29	35	46	61.6	11.9	0	31	144
TUBBS 06	--	30	35	46	62.1	12.5	0	33	140
SALUTE	--	32	37	46	60.7	12.1	0	34	143
WA008117	--			46	61.5	12.7	0	28	145
MADSEN	--	27	31	45	62.3	12.9	0	33	143
ELTAN	--	35	40	45	62.3	12.6	0	33	145
LEGION	--	30	34	45	62.2	12.2	0	35	141
AP LEGACY	--	33	40	45	61.9	12.2	0	32	142
ROD/TUBBS06	--	28	32	45	62.0	12.1	0	34	140
WA008094	--		39	45	62.1	12.9	0	33	146
SIMON	--	27	31	44	61.4	13.0	0	32	143
ORCF-102	--	28	33	44	62.3	13.2	0	33	149
<i>ARS970071-3C</i>	--		36	44	62.8	13.6	0	34	143
GEORGE	--	34	38	43	61.9	12.7	0	34	145
OR2040726	--		32	43	62.2	13.2	0	30	139
ROD	--	29	31	42	60.9	12.2	0	32	145
BRUNDAGE 96	--	27	32	42	61.9	12.7	0	32	141
MADSEN/ROD	--	25	28	41	61.6	12.9	0	31	144
CDC PTARMIGAN	--		32	41	61.4	11.6	0	34	141
BITTERROOT	--	24	30	40	62.6	12.9	0	33	142
WB-528	--	27	32	39	62.9	13.7	0	32	140
GOETZE/SKILES	--			39	61.0	14.4	0	31	142
AP 700 CL	--	27	29	38	61.8	13.6	0	32	141
STEPHENS	--	25	29	37	62.6	12.6	0	31	139
BRUNEAU	--	22	27	37	62.1	12.9	0	31	142
SKILES	--	31	35	37	61.2	14.7	0	31	141
<i>ARS970184-1C</i>	--			37	62.4	13.1	0	31	142
KCF9001	--			37	62.1	13.0	0	38	144
LAMBERT	--	22	25	35	62.2	12.8	0	33	138
BZ6W02-616	--		27	35	62.5	14.4	0	31	138
OR2060395	--			35	60.1	12.8	0	30	143

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				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
WA008114	--			34	62.7	13.2	0	32	139
REA STEPHENS	--			34	62.9	13.0	0	33	139
WA008063	--	26	31	33	62.4	14.0	0	29	140
KCF9003	--			33	62.7	13.4	0	37	140
KCF9002	--			32	62.4	14.8	0	32	140
WA008115	--			28	62.5	13.7	0	31	139
C.V. %	--	14	14	9	0.8	3.1	--	3	1
LSD '@ .10'	--	3	5	5	0.7	0.5	--	1	3
Average	--	30	35	44	62.2	12.8	0	33	143
Highest	--	35	45	64	63.7	14.8	0	38	149
Lowest	--	22	25	28	60.1	11.1	0	28	138

Lind Soft White Winter Wheat – Preliminary Data

1. Grain yield in the Lind soft white winter wheat trial averaged 44 bushels/acre, a large increase over the 24 bushels/acre average in 2009. Higher yields were enabled by favorable spring precipitation and temperatures. The Lind nursery was located on the WSU Lind Dryland Experiment Station 3 miles NE of the town of Lind.
2. This nursery was seeded on 1 September, 2009 following summer fallow. Seed was placed at a 45#/acre seeding rate average (actual uniform rate for all plots is 11.25 seeds ft²) using a deep-furrow plot drill set on 15-inch spacing. Base fertilizer was 50#N and 10#S. Fall seeding conditions were not as dry as recent years and emergence and stand establishment were adequate for varieties that emerge well from deep-furrow seeding depth. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 23%.
3. Yields ranged from 28 bu/ac to 64 bu/ac. All yield values within the 10% LSD range of the highest yield are shown in bold. The club variety Chukar +25% (this was planted at a 25% higher seeding rate = 14 seed ft²) was the highest yielding cultivar in the trial and out yielded Chukar (seed at 11.25 seeds ft²) by 8 bushels/acre. Seven of the top 10 varieties in the trial were clubs. The club cultivars expressed high levels of stripe rust resistance this year and that could help explain their high performance. Stripe rust was epidemic at this location and incurred yield loss.
4. Test weights were very good with an average of 62.2 lb/bu. This is surprising because stripe rust usually lowers test weights, but the favorable moisture conditions would have contributed to good grain filling.
5. Grain protein averaged 12.8% with a range of 11.1 to 14.8% and plant height averaged 33 inches, taller than usual