

2010 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT HORSE HEAVEN, 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	--	--	30	46	60.9	11.1	0	28	151
WB-528	--	--	28	42	62.5	12.3	0	23	148
ORCF-103	--	--	28	42	61.4	12.2	0	24	150
WA008116	--	--		42	61.7	11.9	0	21	150
<i>CHUKAR</i>	--	--	25	41	59.5	11.6	0	25	152
ROD	--	--	26	41	60.3	11.7	0	27	150
RJAMES	--	--	26	41	60.6	11.9	0	22	150
ROD/TUBBS06	--	--	26	41	60.0	11.9	0	26	150
DH99-55-2 (Soft Red)	--	--		41	60.9	11.5	0	27	148
MASAMI	--	--	26	40	61.0	11.5	0	26	151
TUBBS 06	--	--	26	40	60.7	11.8	0	26	148
ARS970170-2L	--	--	26	40	59.6	12.3	0	25	152
FINCH	--	--	24	39	60.9	10.9	0	24	152
GEORGE	--	--	24	39	60.9	11.9	0	25	151
BRUNEAU	--	--	25	39	61.3	12.0	0	25	150
ARS960277L	--	--	24	39	61.3	11.4	0	23	150
LEGION	--	--	26	39	60.8	11.6	0	27	148
AP LEGACY	--	--	26	39	60.4	10.7	0	24	151
CDC PTARMIGAN	--	--	26	39	60.5	10.6	0	28	147
OR2040726	--	--	26	39	61.4	12.3	0	23	149
<i>CHUKAR +25%</i>	--	--		39	59.3	12.2	0	25	153
GOETZE/SKILES	--	--		39	60.9	12.4	0	23	149
ID00-475-2DH	--	--		39	61.1	12.6	0	26	151
ELTAN	--	--	26	38	62.1	12.1	0	23	151
SIMON	--	--	26	38	60.3	11.8	0	26	150
SALUTE	--	--	25	38	59.0	12.0	0	24	150
UICF-BRUNDAGE	--	--	25	38	60.2	11.4	0	23	149
ELTAN/MADSEN	--	--	26	38	61.4	12.5	0	25	151
ELTAN/TUBBS06	--	--	26	38	61.4	12.3	0	25	150
WA008094	--	--	24	38	61.4	12.4	0	25	151
OR2060395	--	--		38	60.5	12.0	0	23	149
<i>CARA +25%</i>	--	--		38	59.6	10.8	0	24	152
<i>BRUEHL</i>	--	--	24	37	61.3	13.0	0	27	151
ORCF-102	--	--	25	37	60.5	12.7	0	25	149
MADSEN/ROD	--	--	25	37	60.0	12.0	0	25	151
WA008114	--	--		37	62.7	12.9	0	20	148
WA008117	--	--		37	61.5	11.8	0	21	152
<i>ARS970163-4C</i>	--	--		37	59.8	11.3	0	25	152
REA STEPHENS	--	--		37	60.9	12.7	0	24	149
<i>BRUEHL +25%</i>	--	--		37	61.0	12.8	0	27	151
<i>CODA</i>	--	--	22	36	61.5	11.5	0	25	152
BRUNDAGE 96	--	--	24	36	60.8	11.7	0	21	148
<i>ARS970075-3C</i>	--	--	25	36	61.7	12.3	0	22	152
WA008092	--	--	24	36	61.0	12.5	0	24	151
WA008093	--	--	23	36	60.9	12.7	0	25	151
LAMBERT	--	--	24	35	61.3	12.1	0	24	148
BITTERROOT	--	--	24	35	60.0	12.2	0	25	151
AP 700 CL	--	--	23	35	60.5	12.3	0	26	147
KCF9003	--	--		35	62.2	12.2	0	26	146
<i>CARA</i>	--	--	21	34	59.3	12.4	0	23	152
MADSEN	--	--	23	34	60.4	12.5	0	26	151
WA008063	--	--	23	34	62.5	13.1	0	18	148
SKILES	--	--	24	34	60.0	13.8	0	21	149
<i>ARS970071-3C</i>	--	--	23	34	61.9	12.4	0	22	150

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				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
WA008115	--	--		34	62.8	12.9	0	22	148
<i>ARS970184-1C</i>	--	--		34	61.3	12.4	0	23	151
STEPHENS	--	--	23	33	60.7	12.3	0	21	150
BZ6W02-616	--	--	23	33	62.8	12.4	0	21	148
KCF9001	--	--		32	61.3	12.9	0	26	148
KCF9002	--	--		31	60.8	14.1	0	23	148
C.V. %	--	--	9	8	0.7	4.5	--	7	1
LSD '@ .10'	--	--	2	4	0.6	0.7	--	2	2
Average	--	--	25	38	60.9	12.1	0	24	150
Highest	--	--	30	46	62.8	14.1	0	28	153
Lowest	--	--	21	31	59.0	10.6	0	18	146

Horse Heaven Soft White Winter Wheat – Preliminary Data

1. Grain yield in the Horse Heaven soft white winter wheat trial averaged 38 bushels/acre a large increase over the 12 bushels/acre average in 2009. Higher yields were enabled by favorable spring precipitation and temperatures. The Horse Heaven nursery was located about five miles east of Prosser, WA (D. Roseberry farm).

2. This nursery was seeded on 22 October, 2009 following summer fallow. Seed was placed at a 45#/acre seeding rate using a double disc plot set on 6-inch spacing. Base fertilizer was 40#N. Fall seeding conditions were dry, but emergence and stand establishment were adequate. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 53%.

3. Yields ranged from 31 bu/ac to 43 bu/ac. All yield values within the 10% LSD range of the highest yield are shown in bold. Xerpha was the highest yielding cultivar in the trial. Stripe rust was epidemic, but this location incurred less impact from strip rust than most locations.

4. Test weights were very good with an average of 60.9 lb/bu. High test weights also show that stripe rust did not have a large impact and moisture conditions were favorable.

5. Grain protein averaged 12.1% with a range of 10.6 to 14.1% and plant height averaged 24 inches. Both parameters are typical for this yield level.