2009 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT HORSE HEAVEN, WA.

		5 YEAR	3 YEAR	2 YEAR	2009					
WB 456	Variety Name *Club Italicized	AVERAGE	AVERAGE	AVERAGE						HEAD DATE
WB 456	ELTAN				15	58.5	14.9	0	19	150
XERPHA	WB-528				15	59.8	15.1	0	21	145
SKILES 14 586 15.4 0 18 14 14 15.6 16.2 0 21 14 14 15.6 16.2 0 21 14 14 15.6 16.2 0 21 14 14 15.6 16.2 0 21 14 14 15.6 15.5 16.2 0 22 14 14 15.6 15.5 0 20 15.5 15.7 0 22 14 14 15.6 15.5 15.7 0 22 14 14 15.6 15.5 15.7 0 22 14 14 15.6 15.5 15.7 0 22 14 15.2 0 20 15.5 15.7 0 15.5 15.7 0 15.5 15.7 0 15.5 15.7 0 15.5 15.7 0 15.5 15.5 15.7 0 15.5 15.5 15.7 0 15.5 15.5 15.5 15.5 15.5 15.5 15.5 15	WB 456				15	58.9	16.3	0	19	146
LEGION	XERPHA				14	60.4	15.2	0	21	150
WB 1066M					14	58.6	15.4	0	18	148
ELTANTUBBSOS 14 584 15.2 0 20 15 CDC PTARMIGAN 14 59.1 15.2 0 20 14 BZ6W02-616 14 59.0 15.2 0 20 14 MASAMI 13 58.4 15.7 0 18 15.8 MASAMI 13 58.4 15.7 0 18 15.8 MSSMON 13 68.8 15.1 0 20 14 BITTERROT 13 68.8 15.1 0 20 14 BITTERROT 13 68.8 15.1 0 20 14 STEPHENS 13 68.0 15.1 0 20 14 STEPHENS 13 68.0 16.1 0 20 14 UNDRO-102 13 68.0 16.1 0 20 14 WB 1020M 13 66.0 16.1 0 20 14 WB 1020M 13 66.0 16.1 0 20 14 WB 1020M 13 60.0 16.1 0 20 14 WB 1020M 13 59.2 15.6 0 21 18 15 ELTANMADSEN 13 59.2 15.6 0 21 WAR8970/88.2C 13 59.2 15.6 0 18 15 WA008665 13 59.4 15.0 0 18 15 WA008665 13 59.4 15.0 0 18 15 WAR8970/88.2C 13 59.4 15.0 0 18 15 WAR8970/88.2C 13 59.4 15.0 0 18 15 WAR8970/88.2C 13 59.4 16.3 0 20 15 WB 1070M 13 59.4 16.3 0 20 15 WR 1070M 13 59.4 16.3 0 20 15 WB 1070M 12 59.0 15.7 0 19 14 LAMBERT 12 59.0 15.6 0 20 15 WA008666 12 59.0 15.8 0 15.7 19 14 LAMBERT 12 59.0 15.8 0 15.9 0 17 14 WA008666 12 59.0 15.8 0 15.9 0 17 14 WA008666 15 59.0 15.8 0 18 15	LEGION				14	58.7	16.2	0	21	148
CDC PTARMICAN 14 59.1 15.2 0 20 14	WB 1066M				14	59.5	15.7	0	22	146
BZEW02-616	ELTAN/TUBBS06				14	58.4	15.2	0	20	150
MASAMI	CDC PTARMIGA	v			14	59.1	15.2	0	20	148
SIMON	BZ6W02-616				14	59.0	15.2	0	20	146
BITTEROOT 13 61.3 15.3 0 20 14 D9990435 13 58.4 15.1 0 22 14 STEPHENS 13 58.4 15.1 0 22 14 STEPHENS 13 57.4 15.7 0 19 14 NGCF-102 13 60.0 16.1 0 20 14 WB 1020M 13 60.0 16.1 0 20 14 WB 1020M 13 60.7 15.1 0 18 15. ORCF-103 13 58.2 15.9 0 18 15. SETAMMADSEN 13 58.8 15.6 0 21 14. WB 1020M 13 58.8 15.6 0 18 15. ARS70108-9C 13 58.8 15.6 0 16.1 SETAMMADSEN 13 58.8 15.6 0 16.1 SETAMMADSEN 13 58.8 15.6 0 16.1 SETAMMADSEN 13 58.8 15.6 0 19 14. SETAMMADSEN 13 58.8 15.6 0 19 14. SETAMMADSEN 13 58.8 15.6 0 20 15. SETAMMADSEN 12 58.3 15.5 0 20 17. SETAMMADSEN 12 58.8 15.6 0 20 17. SETAMMADSEN 12 58.8 15.8 0 17. SETAMMADSEN 12 58.8 14.3 0 18 14. WA008063 12 58.8 14.3 0 18 14. WA008066 12 58.8 14.3 0 18 14. WA008067 12 58.8 14.3 0 18 14. WA008066 12 58.8 14.3 0 19 15. MADSEN 11 59.9 16.3 0 18 14. WECKEN 11 58.5 16.1 0 19 15. MADSEN 11 60.4 15.8 0 20 14. WEGORDOUGH 11 60.4 15.8 0 20 14. WEGORDOUGH 11 60.4 15.8 0 20 14. WA008064 11 60.5 15.0 0 19 15. SALUTE 11 60.5 15.	MASAMI				13	58.4	15.7	0	18	151
IDSP0435	SIMON				13	58.8	15.1	0	20	149
IDSP0435										149
STEPHENS 13 67.4 15.7 0 19 14 ORCF-102 13 66.0 16.1 0 20 14 TUBBS 06 13 67.8 15.6 0 21 14 WB 1020M 13 60.7 15.1 0 18 15 ELTANMADSEN 13 69.2 15.9 0 18 15 ELTANMADSEN 13 58.8 15.0 0 18 15 ELTANMADSEN 13 58.8 15.0 0 16 15 ORCF-103 13 58.8 15.0 0 16 15 AP LEGACY 13 58.8 15.0 0 16 15 AP LEGACY 13 58.8 15.0 0 16 15 ORCF-103 58.8 15.0 0 16 15 ORCF-103 59.4 16.3 0 20 15 AP LEGACY 13 58.8 15.0 0 19 14 ARS970170-2L 13 58.8 15.0 0 20 15 ORCF-103 59.4 16.3 0 20 15 ORCF-103 59.4 16.3 0 20 15 ORCF-104 59.4 16.3 15 ORCF-105 59.4 16.3 0 20 15 ORCF-105 59.4 16.3 0 20 15 ORCF-106 59.4 16.3 15 ORCF-107 59.4 16.3 15 ORCF-107 59.4 16.3 15 ORCF-108 59.4 16.3 16 ORCF-108 59.4										147
ORCE-102										148
TUBBS 06								-		148
WB 1020M 13 60.7 15.1 0 18 15 ORCF-103 13 59.2 15.9 0 18 15 ELTANMADSEN 13 58.9 15.6 0 18 15 ARS970169-9C 13 58.8 15.0 0 16 15 WA008065 13 58.8 15.6 0 20 15 AP LEGACY 13 58.8 15.6 0 20 15 ORZ050293 13 68.8 15.6 0 20 15 ORZ050293 13 60.9 15.7 0 19 14 LAMBERT 12 58.3 15.9 0										149
ORCF-103 13 59.2 15.9 0 18 15 ELTAN/MADSEN 13 58.9 15.6 0 18 15 MAD08065 13 58.8 15.6 0 20 15 AP LEGACY 13 58.9 14.8 0 19 14 ARS97070-2L 13 58.8 15.6 0 20 15 OR2050293 13 60.9 15.7 0 19 14 LAMBERT 12 58.3 15.5 0 20 14 RUMBOAGE 96 12 58.8 15.9 0 17 14 ROADSEN/ROD 12 58.0 15.8										151
ELTAN/MADSEN										150
## ARS970168-2C										152
WA008065 13 59.4 16.3 0 20 15 AP LEGACY 13 59.9 14.8 0 19 14 ARSS70170-2L 13 58.8 15.6 0 20 15 OR2050293 13 60.9 15.7 0 19 14 LONDON 13 60.9 15.7 0 19 14 LAMBERT 12 58.3 15.9 0 17 14 RJAMES 12 59.0 15.8 0 18 15 9364901A 12 59.0 15.8 0 18 15 9364901A 12 58.8 14.3 0 18										
AP LEGACY										150
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KCF08002 12 59.6 14.9 0 20 14.9 ORI2060306 12 58.4 16.7 0 18 14.4 BRUEHL 11 60.5 15.1 0 19 15.5 MADSEN 11 59.9 16.3 0 18 15.7 ROD 11 57.7 15.1 0 17 15.5 ORCF-101 11 58.5 16.2 0 20 14 WB 523 11 60.4 15.8 0 20 14 CASHUP 11 60.3 15.7 0 20 14 AP 700 CL										146
ORI2060306 12 58.4 16.7 0 18 14 BRUEHL 11 60.5 15.1 0 19 15 MADSEN 11 59.9 16.3 0 18 15 ROD 11 57.7 15.1 0 17 15 ORCF-101 11 58.5 16.2 0 20 14 WB 523 11 60.4 15.8 0 20 14 CASHUP 11 60.3 15.4 0 17 15 SALUTE 11 57.3 15.7 0 20 14 WA008064 11 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>146</td>										146
BRUEHL 11 60.5 15.1 0 19 15 MADSEN 11 59.9 16.3 0 18 15 ROD 11 57.7 15.1 0 17 15 ORCF-101 11 58.5 16.2 0 20 14 WB 523 11 60.4 15.8 0 20 14 CASHUP 11 60.3 15.4 0 17 15 SALUTE 11 57.3 15.7 0 20 14 AP 700 CL 11 58.5 16.1 0 20 14 WA008064 11 59.1 16.3 0 18 14 WA008092 11 59.7 15.3 0 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>147</td>										147
MADSEN 11 59.9 16.3 0 18 15 ROD 11 57.7 15.1 0 17 15 ORCF-101 11 58.5 16.2 0 20 14 WB 523 11 60.4 15.8 0 20 14 CASHUP 11 60.3 15.4 0 17 15 SALUTE 11 57.3 15.7 0 20 14 AP 700 CL 11 58.5 16.1 0 20 14 WA008064 11 59.1 16.3 0 18 14 WA008092 11 59.7 15.3 0 19 15										149
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ORCF-101 11 58.5 16.2 0 20 14 WB 523 11 60.4 15.8 0 20 14 CASHUP 11 60.3 15.4 0 17 15 SALUTE 11 57.3 15.7 0 20 14 AP 700 CL 11 58.5 16.1 0 20 14 WA008064 11 59.1 16.3 0 18 14 WA008092 11 59.7 15.3 0 19 15 WA008094 11 59.7 15.3 0 19 15 OR2060324 11 57.4 14.6 0 18 14 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>151</td>										151
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CASHUP 11 60.3 15.4 0 17 15 SALUTE 11 57.3 15.7 0 20 14 AP 700 CL 11 58.5 16.1 0 20 14 WA008064 11 59.1 16.3 0 18 14 WA008092 11 60.5 15.0 0 19 15 WA008094 11 59.7 15.3 0 19 15 OR2060324 11 57.4 14.6 0 18 14 CHUKAR 10 59.3 16.1 0 15 15 GEORGE 10 58.6 15.5 0 19 15								0	20	149
SALUTE 11 57.3 15.7 0 20 14 AP 700 CL 11 58.5 16.1 0 20 14 WA008064 11 59.1 16.3 0 18 14 WA008092 11 60.5 15.0 0 19 15 WA008094 11 59.7 15.3 0 19 15 OR2060324 11 57.4 14.6 0 18 14 CHUKAR 10 59.3 16.1 0 15 15 GEORGE 10 58.6 15.5 0 19 15	WB 523				11	60.4	15.8	0	20	148
AP 700 CL 11 58.5 16.1 0 20 14 WA008064 11 59.1 16.3 0 18 14 WA008092 11 60.5 15.0 0 19 15 WA008094 11 59.7 15.3 0 19 15 OR2060324 11 57.4 14.6 0 18 14 CHUKAR 10 59.3 16.1 0 15 15 GEORGE 10 58.6 15.5 0 19 15	CASHUP				11	60.3	15.4	0	17	150
WA008064 11 59.1 16.3 0 18 14 WA008092 11 60.5 15.0 0 19 15 WA008094 11 59.7 15.3 0 19 15 OR2060324 11 57.4 14.6 0 18 14 CHUKAR 10 59.3 16.1 0 15 15 GEORGE 10 58.6 15.5 0 19 15	SALUTE				11	57.3	15.7	0	20	148
WA008092 11 60.5 15.0 0 19 15 WA008094 11 59.7 15.3 0 19 15 OR2060324 11 57.4 14.6 0 18 14 CHUKAR 10 59.3 16.1 0 15 15 GEORGE 10 58.6 15.5 0 19 15	AP 700 CL				11	58.5	16.1	0	20	148
WA008094 11 59.7 15.3 0 19 15 OR2060324 11 57.4 14.6 0 18 14 CHUKAR 10 59.3 16.1 0 15 15 GEORGE 10 58.6 15.5 0 19 15	WA008064				11	59.1	16.3	0	18	147
OR2060324 11 57.4 14.6 0 18 14 CHUKAR 10 59.3 16.1 0 15 15 GEORGE 10 58.6 15.5 0 19 15	WA008092				11	60.5	15.0	0	19	151
CHUKAR 10 59.3 16.1 0 15 15 GEORGE 10 58.6 15.5 0 19 15	WA008094				11	59.7	15.3	0	19	150
GEORGE 10 58.6 15.5 0 19 15	OR2060324				11	57.4	14.6	0	18	149
GEORGE 10 58.6 15.5 0 19 15	CHUKAR				10	59.3	16.1	0	15	151
					10	58.6	15.5	0	19	151
	ROD/TUBBS06				10	58.2	15.7	0	20	150

2009 WSU EXTENSION SOFT WHITE WINTER WHEAT NURSERY AT HORSE HEAVEN, WA.

	5 YEAR	3 YEAR	2 YEAR	2009					
Variety Name *Club Italicized	AVERAGE (BU/A)	AVERAGE (BU/A)	AVERAGE (BU/A)	YIELD (BU/A)	TEST WT* (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT	HEAD DATE
WA008093				10	61.2	15.7	0	19	149
CARA				9	58.3	16.4	0	15	151
CODA				8	60.9	16.4	0	16	151
FINCH				8	59.9	14.8	0	17	150
C.V. %				13		3.2		6	1
LSD '@ .10'				2		0.7		2	1
Average				12	59.0	15.6	0	19	149
Highest				15	61.3	16.7	0	22	152
Lowest				8	55.3	14.3	0	15	145

^{*}Test Weight data are from bulked samples across replications.

- 1. Grain yield in the Horse Heaven soft white winter wheat trial averaged 12 bu/ac. The Horse Heaven nursery was located about 5 miles east of Prosser, WA (D. Roseberry farm).
- 2. This nursery was seeded on 8 October, 2008 following summer fallow. Seed was placed at a 45#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Base fertilizer was 40#N. Fall seeding conditions were dry and occasional poor emergence 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 36% compared to previously used designs.
- 3. Yields ranged from 8 bu/ac to 15 bu/ac, with a CV of 13%. All yield values within the LSD range of the highest yield are shown in bold. Club variety names are designated by italicized print.
- 4. Test weights were good with an average of 59.0 lb/bu. Test weight values were obtained by bulking the replications together to have enough grain for analysis, and this does not then allow statistical analysis of these results.
- 5. Grain protein averaged 15.6% with a range of 14.3 to 16.7%. High protein could have been influenced by the low yields that reflected dry conditions during much of the growing season. Low yield and dry conditions are also related to 19 inch average plant height.