

2010 WSU EXTENSION SOFT WHITE SPRING WHEAT NURSERY AT HORSE HEAVEN, WA.

Variety Name <small>*Club Italized</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 (%)	PLANT HT	HEAD DATE
<i>JD</i>		32	34	55	62.2	12.4	31	154
WA008124				55	60.8	12.2	31	154
WAKANZ	33	31	33	54	60.0	12.6	31	155
WA008110				54	60.0	12.7	31	155
WA008113				54	60.9	12.1	32	155
LOUISE	34	31	33	53	61.1	12.2	31	153
WHIT	32	30	34	53	61.6	12.7	29	151
<i>JD +25%</i>			33	53	62.6	12.5	31	153
<i>EDEN</i>	32	31	35	52	62.4	11.6	28	152
ZAK	32	32	33	51	60.0	13.0	33	154
IDO669				51	60.6	12.5	33	154
DIVA		33	34	50	61.5	12.0	32	153
WA008105				50	62.4	11.9	30	152
NICK	33	30	31	49	61.7	12.9	27	150
WA008089		31	31	49	61.5	11.9	32	153
<i>EDEN +25%</i>			32	49	62.3	12.0	27	152
ALPOWA	31	28	31	48	60.5	12.4	30	153
BABE		29	31	48	60.6	12.5	31	152
ALTURAS	30	28	31	47	61.7	12.0	27	151
WA008106			30	46	61.6	12.3	31	151
IDO671				46	61.7	11.8	28	150
IDO599				42	61.2	12.2	27	149
WA008107				40	60.7	13.5	29	152
CATALDO	27	22	24	35	60.1	12.9	25	150
C.V. %	8	8	7	6	0.5	2.3	4	1
LSD '@ .10'	2	2	2	4	0.4	0.4	2	1
Average	31	30	32	49	61.2	12.4	30	152
Highest	34	33	35	55	62.6	13.5	33	155
Lowest	27	22	24	35	60.0	11.6	25	149

Horse Heaven Soft White Spring Wheat – Preliminary Data

1. Grain yield in the Horse Heaven soft white spring wheat trial averaged 49 bushels/acre, a great improvement over the 14 bushel/acre average of 2009. The Horse Heaven spring nursery was located about five miles southwest of Prosser, WA (M. Schmitt, cooperator).
2. This nursery was seeded on 4 March, 2010 following chemical fallow. Seed was placed at a 60#/acre seeding rate using a double disk plot drill set on 6-inch spacing. Base fertilizer was 40#N fall applied. Spring seeding conditions were adequate, but dry conditions prevailed until unusually prolific rainfall started in May.
3. Yields ranged from 35 bu/ac to 55 bu/ac. Yield values within the LSD range of the highest yield are shown in bold and 9 of the 24 entries are in this group. Club entries are listed in italic and the (+25) designation is a 25% higher seeding rate for the club entry. Stripe rust was epidemic at this location and incurred yield loss. The lattice RCBD experimental design improved variation allocation during statistical analysis and the CV by 72% for yield.
4. Test weights were very good with an average of 61.2 lb/bu. Grain protein averaged 12.4% with a range of 11.6 to 13.5% and is higher than desired due to high available N at this site. The average plant height was 30 inches.