

## 2011 WSU Variety Testing SW Spring Wheat Trial, Horse Heaven

Variety Name <small>*Club Italized</small>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2011				
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	LODGING (%)	PLANT HT
JD	34	39	51	<b>47</b>	<b>62.2</b>	10.2	0	28
Louise	33	35	46	40	60.7	9.7	0	29
Diva		36	45	40	61.0	9.6	0	29
Louise-G2				40	60.9	9.8	0	28
Whit	31	35	45	38	59.9	9.9	0	26
Babe	31	33	43	38	59.5	9.5	0	29
WA 8128				38	<b>61.8</b>	10.5	0	30
Eden	31	35	44	37	60.7	9.6	0	26
WA 8127				37	61.0	9.9	0	28
Wakanz	32	34	45	36	58.9	10.2	0	25
WA 8124			46	36	60.6	9.5	0	28
WA 8131				36	60.5	10.4	0	25
WA 8149				35	59.8	9.3	0	26
IDO686				35	61.2	9.9	0	27
Nick	31	32	42	34	58.9	10.0	0	27
IDO671			40	34	60.0	9.6	0	26
Alpowa	30	32	41	33	60.7	9.3	0	27
IDO644				33	59.8	9.4	0	28
IDO687				33	<b>61.7</b>	9.7	0	26
Alturas	29	31	40	32	59.2	9.8	0	26
Zak	32	32	41	31	59.9	10.0	0	27
WA 8150				31	60.8	8.9	0	26
UI-Cataldo	24	25	31	26	58.9	10.4	0	26
WB-1035CL2				26	58.8	10.9	0	25
C.V.	13	10	8	8	0.9	3.7	0	4
LSD	2	2	3	4	0.7	0.5	0	2
Average	31	33	43	35	60.3	9.8	0	27
Highest	34	39	51	47	62.2	10.9	0	30
Lowest	24	25	31	26	58.8	8.9	0	25

### Horse Heaven Soft White Spring Wheat – Preliminary Data

1. Grain yield in the Horse Heaven soft white spring wheat trial averaged 35 bushels/acre, 4 bushel/acre higher than the 5-year average. The Horse Heaven spring nursery was located about ten miles southwest of Prosser, WA (M. Schmitt, cooperator).
2. This nursery was seeded on 23 March, 2011 following fallow. Seed was placed at a 60#/acre seeding rate using a double-disk plot drill set on 6-inch spacing. Base fertilizer was 35#N fall applied. Spring seeding conditions were good. Cool and wet weather occurred until anthesis when dry weather prevailed through the remainder of the growing season.
3. Yields ranged from 26 bu/ac to 47 bu/ac. Yield values within the LSD range of the highest yield are shown in bold and 1 of the 24 entries are in this group. JD was the highest yielding variety in 2011 and was also highest yielding over 5 years of results at this site. Stripe rust was at moderate levels in the trial and incurred an estimated 20% yield impact on susceptible varieties. The Lattice design was 111% efficient compared to an RCBD for yield.
4. Test weights were good and averaged 60.3 lb/bu and ranged from 58.8 to 62.2 lb/bu. Grain protein averaged 9.8% with a range of 8.9 to 10.9%. The average plant height was 27 inches with no lodging.