

2011 WSU Variety Testing SW Winter 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	HEAD DATE
Chukar	--	41	56	71	59.6	9.1	0	33	151
WA 8116	--		56	71	61.1	8.6	0	30	150
ARS970161-3L	--			71	61.6	9.9	0	34	149
ARS960277L	--		54	70	60.1	8.5	0	33	149
Skiles	--	39	52	70	61.1	8.5	0	31	149
Xerpha	--	43	58	69	60.9	8.3	0	33	149
BZ6W02-616	--	39	51	69	62.6	9.2	0	32	145
Chukar +25%	--		54	69	59.2	7.8	0	32	150
ARS97230-6C	--			69	61.1	7.4	0	29	150
OR2070385	--			69	59.6	9.0	0	33	149
Bruehl	--	39	52	68	59.1	7.9	0	34	151
Tubbs 06	--	40	54	68	59.9	9.7	0	33	149
Legion	--	40	54	68	59.8	8.9	0	33	149
AP Legacy	--	40	53	68	61.4	9.0	0	33	149
Cara +25%	--		53	68	59.5	8.8	0	32	150
WA 8135	--			68	62.3	9.0	0	35	150
ORCF-102	--	39	52	67	61.2	9.6	0	34	149
ARS970075-3C	--		52	67	60.8	9.2	0	33	150
IDO663	--			67	60.8	9.1	0	31	147
OR2071628	--			67	60.2	8.9	0	33	149
Coda	--	37	51	66	61.5	8.5	0	34	150
Finch	--	38	53	66	62.4	8.8	0	32	151
ORCF-103	--	40	54	66	61.1	9.0	0	30	150
ARS970163-4C	--		52	66	60.9	8.7	0	34	150
03PN107#3	--			66	60.6	8.6	0	33	149
Masami	--	39	52	65	60.3	9.5	0	33	151
Brundage 96	--	38	51	65	60.6	10.0	0	31	149
Bruneau	--	38	52	65	60.8	9.0	0	32	150
Eltan/Tubbs 06	--	39	52	65	60.8	8.7	0	34	150
WA 8094	--	38	51	65	61.8	8.6	0	34	149
ARS98X402-1C	--			65	60.5	8.5	0	34	150
AP Badger	--			65	59.3	9.2	0	33	149
WA 8143	--			65	61.4	9.3	0	33	151
WB-528	--	40	53	64	61.4	9.3	0	32	148
Rod/Tubbs 06	--	38	53	64	60.2	9.5	0	34	150
WA 8092	--	37	50	64	60.9	10.2	0	34	151
Madsen/Rod	--	38	50	63	60.1	8.2	0	33	150
Rod/WB-528	--			63	61.1	9.7	0	32	149
Eltan	--	38	50	62	61.3	8.9	0	32	151
Rod	--	38	52	62	60.2	9.1	0	31	150
Goetze/Skiles	--		50	62	61.5	9.8	0	32	148
SY Ovation	--			62	61.7	9.1	0	32	148
WA 8142	--			62	61.6	10.6	0	33	149
Cara	--	35	47	61	60.5	9.6	0	30	151
WA 8114	--		49	61	61.7	9.6	0	32	146
ID00-475-2DH	--		50	61	62.7	9.7	0	33	150

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WA 8136	--			61	59.2	9.4	0	33	151
96-16702A	--			61	61.8	8.8	0	33	149
Bitterroot	--	36	47	60	61.3	9.0	0	34	150
Stephens	--	35	46	59	60.1	10.1	0	30	148
UICF-Brundage	--	36	49	59	60.2	10.0	0	31	149
WA 8134	--			59	60.9	9.3	0	34	149
WA 8144	--			59	61.6	9.8	0	38	152
Sunrise (Soft Red)	--		49	58	61.3	9.8	0	33	150
Madsen	--	34	46	57	61.0	8.8	0	32	150
Lambert	--	35	46	57	60.5	9.4	0	35	148
OR2040726	--	36	48	56	60.4	9.9	0	31	148
AP 700 CL	--	34	45	55	60.6	9.3	0	33	149
WA 8145	--			54	61.0	9.4	0	35	147
NSA06-2153A	--			54	61.7	9.1	0	30	148
C.V.	--	11	9	8	0.9	10.7	0	5	1
LSD	--	4	6	10	1.0	1.9	0	3	1
Average	--	38	51	64	60.8	9.1	0	33	149
Highest	--	43	58	71	62.7	10.6	0	38	152
Lowest	--	34	45	54	59.1	7.4	0	29	145

Horse Heaven Soft White Winter Wheat – Preliminary Data

1. Grain yield in the Horse Heaven soft white winter wheat trial averaged 64 bushels/acre, 26 bushels/acre higher than the 3-year average. Higher yields were enabled by favorable spring precipitation and temperatures. The Horse Heaven nursery was located about seven miles southeast of Prosser, WA (D. Rosenberry cooperator).
2. This nursery was seeded on 7 September, 2010 following summer fallow. Seed was placed at a 45#/acre seeding rate using a deep furrow plot drill set on 15-inch spacing. Base fertilizer was 50#N. Fall seeding conditions were favorable and emergence and stand establishment were good.
3. Yields ranged from 54 to 71 bu/ac. All yield values within the 10% LSD range of the highest yield are shown in bold. Chukar was the highest yielding cultivar in the trial, but 48 of the 60 entries in the trial were within the top LSD range. This shows that everything yielded well in the trial. Xerpha was the top yielding entry across three years of results. The cool and wet spring conditions along with local inoculum sources created early, high levels of stripe rust potential at this location. Fungicide was applied the beginning of April and again 30 May and controlled stripe rust across the trial. The Lattice design was 144% efficient compared to an RCBD.
4. Test weights were good with an average of 60.8 lb/bu. Grain protein averaged 9.1% with a range of 7.4 to 10.6%, plant height averaged 33 inches, and there was no lodging.