

2012 WSU Variety Testing Hard Spring Wheat Trial, Moses Lake

Variety Name <i>*Hard White Italicized</i>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2012				
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE
Lassik	--	107	101	101	63.1	14.4	30	150
<i>Otis</i>	--	104	101	90	64.3	14.2	33	152
WB-Fuzion	--	103	90	88	63.5	16.2	33	146
Bullseye	--	100	93	85	65.0	14.9	29	150
<i>WA 8123</i>	--	109	98	83	63.0	16.0	29	148
WA 8167	--			81	63.2	15.8	34	150
Jefferson	--	97	90	80	63.6	15.3	30	149
LCS-Buck Pronto	--	94	84	80	62.6	16.7	33	148
Hollis	--	93	88	79	63.8	16.5	36	149
WA 8166	--			77	64.1	16.2	30	150
UI Winchester	--	97	87	76	63.5	15.3	29	148
WA 8165	--			75	64.6	15.9	36	150
WA 8164	--			75	63.4	16.5	31	147
<i>BR7030</i>	--	100	86	75	63.7	15.9	31	149
Scarlet	--	88	85	74	62.9	16.8	32	151
LCS-Powerplay	--		80	72	63.6	15.2	30	149
<i>WA 8163</i>	--			72	63.2	15.8	31	152
Tara 2002	--	95	83	72	61.5	17.0	29	147
Kelse	--	90	82	71	62.9	16.2	33	150
Espresso	--	99		70	62.3	16.7	27	149
Glee (WA 8074)	--	97	86	70	63.4	17.3	29	147
Solano	--	98		69	62.6	16.7	25	149
<i>Patwin 515</i>	--		75	69	61.3	16.3	21	150
V272	--			69	63.5	14.9	25	156
Hank	--	96	83	69	62.8	16.9	29	149
Volt	--			68	64.0	15.7	29	151
<i>WB Hartline</i>	--			66	61.2	17.0	29	147
LCS-ALbany	--			63	63.0	16.3	28	153
Jedd	--			62	64.2	15.5	27	149
Cabernet	--	94	77	62	62.7	16.8	21	149
<i>WA 8168</i>	--			60	63.0	16.2	31	150
<i>Clear White 515</i>	--		74	60	61.0	17.0	28	147
SY605 CL	--			60	63.0	17.6	30	146
<i>IDO694</i>	--			58	62.8	16.1	25	147
WB-Rockland	--		69	57	61.4	17.3	24	149
Malbec	--	92	79	57	62.1	17.0	25	148
C.V. %	--	9	11	16	0.7	6.4	5	0
LSD (.10)	--	5	7	13	0.5	1.1	2	1
Average	--	98	85	72	63.1	16.2	29	149
Highest	--	109	101	101	65.0	17.6	36	156
Lowest	--	88	69	57	61.0	14.2	21	146

Moses Lake Hard Spring Wheat – Preliminary Data

1. Grain yield in the 2012 Moses Lake hard spring wheat trial averaged 72 bushels/acre, 26 bushel/acre lower than the 3-year average. The Moses Lake trial was located about six miles south of Moses Lake, WA (S. Tokunaga, cooperator).
2. This nursery was seeded on 23 March, 2012 following potatoes. Seed was placed at a 90#/acre seeding rate using a double-disk plot drill set on 6-inch spacing. Base fertilizer was 250#N/acre plus 100#N/acre with irrigation and along with the 126#N from the soil test analysis, there was ample N available to meet the hard protein target at projected yield levels. Spring seeding conditions were variable and establishment was not uniform. Emergence and early growth were variable and poor. Wireworm damage was found and the trial site did not appear uniform. .
3. Statistical analysis of these results show highly variable results, but still significant. Yields ranged from 57 bu/acre to 101 bu/acre. Yield values within the LSD range of the highest yield are shown in bold and 3 of the 30 entries are in this group. 'Lassik' was the highest yielding in 2012 and also the highest yielding named variety over 3 years at this location. Fungicide was applied and stripe rust was not a problem.
4. Test weights averaged 63.1 lbs/bu and ranged from 61.0 to 65.0 lbs/bu. Grain protein averaged 16.2% with a range of 14.2 to 17.6%. The average plant height was 29 inches with no lodging. High test weight and protein reflect the poor establishment and high fertility at this site.