

2011 WSU Variety Testing Hard Winter Irr Wheat Trial, Moses Lake

Variety Name <small>*Hard White Italized</small>	Class				2011					
		5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE	LODGING (%)
WA 8118	HRW				212	63.3	13.5	39	148	0
WA 8120	HRW				208	58.9	12.7	41	152	0
WA 8115	SWW				207	61.6	11.6	32	149	0
WA 8139	HRW				206	62.7	13.2	43	151	10
YS29	SWW				206	63.2	11.5	34	152	0
Stephens	SWW	178	186	182	203	62.1	11.5	34	151	0
NSA06-2153A	SWW				200	60.7	11.1	32	152	0
ML9W05-2501	HRW			195	199	62.6	12.6	35	150	0
Altigo	HRW				199	59.0	12.0	31	151	0
WA 8147	SWF				196	62.8	11.8	43	150	20
Whetstone	HRW	179	186	182	195	63.1	13.1	35	149	0
OR2080156H	HWW			180	193	62.9	12.5	36	153	0
YS18	SWW				193	59.8	12.0	34	154	0
Eddy	HRW	169	176	178	192	63.6	12.8	35	150	0
WA 8140	HRW				192	62.9	13.6	42	150	0
YS20	SWW				192	60.5	11.3	39	154	0
WB-Tucson	HRW	182	187	184	191	63.7	12.7	36	152	0
Azimut	HRW				190	58.9	12.4	31	150	0
Genesi	HRW				190	62.0	12.4	32	149	0
Accipiter	HRW		177	170	189	62.8	11.9	37	154	0
OR2080111H	HWW				189	61.1	12.5	34	150	0
Norwest 553	HRW	162	165	172	188	62.5	12.9	32	151	0
YS27	SWW				186	61.3	11.6	35	154	0
Tyche	HRW				185	61.3	11.6	31	152	0
WA 8146	HWW				184	61.6	11.9	33	152	0
UI Silver	HWW			174	182	62.6	12.1	39	154	7
Bauermeister	HRW	156	156	154	179	60.7	12.7	40	154	43
UICF-Grace	HWWI	157	173	163	179	62.7	13.5	47	154	0
Sunrise	SRW		159	148	179	60.1	11.7	42	152	0
UI Winchester	HRS			140	172	64.3	14.5	34	149	0
Esperia	HRW		173	173	171	60.5	13.3	31	149	0
Declo	HRW	143	147	142	171	62.4	12.8	32	152	0
AgriPro Paladin	HRW	158	163	162	170	62.5	12.6	34	153	0
Boundary	HRW	161	165	156	162	62.4	12.8	36	154	0
Bora	HRW				159	63.2	13.2	30	149	0
Peregrine	HRW		155	146	141	63.6	12.4	43	154	0
C.V.		13	10	9	5	0.7	1.6	4	1	259
LSD		9	12	16	20	0.9	0.4	3	3	11
Average		165	169	167	188	61.9	12.5	36	152	2
Highest		182	187	195	212	64.3	14.5	47	154	43
Lowest		143	147	140	141	58.9	11.1	30	148	0

Moses Lake Irrigated Hard Winter Wheat – Preliminary Data

1. Grain yield in the Moses Lake Irrigated hard winter wheat trial averaged 188 bushels/acre, 23 bushels/acre higher than the 5-year average. The Moses Lake nursery was located about 2 miles southeast of Quincy, WA (Jerry Heilig, cooperator).
2. This nursery was seeded on 26 October, 2010 following potatoes. Seed was placed at an 85#/acre seeding rate using a double disc plot drill set on 6-inch spacing. Fall seeding conditions were favorable and emergence and stand establishment were good. Base fertilizer was 30#N/acre applied through irrigation. Based on a spring soil test, an additional 200#N/acre was applied for hard wheat protein based on expected yields.
3. Yields ranged from 141 bu/ac to 212 bu/ac. Stephens (a soft white check) was the highest yielding named entry in this trial. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 16 of the 36 entries. WB-Tucson was the top yielding hard entry across five years of results at this location. There was moderate stripe rust potential at this location and fungicides were applied twice with good effect. There was no estimated yield loss due to stripe rust. The Lattice design was 112% efficient compared to an RCBD.
4. Test weights were very good and averaged 61.9 lb/bu and ranged from 58.9 to 64.3 lb/bu. Grain protein averaged 12.5% with a range of 11.1 to 14.5%. Plant height averaged 36 inches with minor lodging on a few entries.