

2014 WSU Variety Testing Hard Winter Wheat Trial, Moses Lake

Variety Name <i>Hard White Italicized</i>	5 YEAR			2014			PLANT HT	LODGING (%)	SPRING STAND*
	AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)			
WB-Rimrock			143	185	63.3	11.1	39	0	9
Keldin			146	181	63.5	11.6	38	23	9
WB-Arrowhead			151	177	63.1	11.8	41	0	9
DAS 1			142	172	63.0	12.3	42	0	9
<i>OR2100061H</i>				168	61.5	10.9	38	0	7
NSA10-7208				165	61.4	12.2	36	0	7
<i>IDO1101</i>			132	164	63.3	11.8	36	0	9
Whetstone			141	164	63.5	13.0	38	0	6
WA 8186			129	159	61.2	11.6	40	0	8
<i>WA 8184</i>			139	159	61.9	11.9	39	0	6
LCS Evina				158	62.0	13.6	42	0	8
LCS Allezy				158	59.0	11.8	33	0	4
Boundary	142	132	137	155	62.1	11.8	40	10	9
WA 8209				153	61.6	12.5	38	0	8
DAS 2			132	152	63.3	12.9	42	0	8
LCS-Azimut		130	132	151	57.1	11.6	31	0	8
Eltan (SWW Check)			112	149	60.2	11.8	42	50	8
WA 8210				148	60.8	11.6	39	0	7
Genesis		134	132	146	62.0	11.7	34	0	7
Bauermeister	122	101	106	145	59.9	12.5	43	52	9
Farnum		102	111	144	60.8	13.5	46	65	7
Sprinter (WA 8118)		101	113	143	63.1	14.1	46	20	7
AP503 CL2			117	141	64.0	12.1	38	0	6
Finley		121	116	140	64.2	12.8	49	23	7
LCS Colonia			134	139	58.3	12.1	36	0	6
<i>OR2080156H</i>	148	127	129	136	62.3	12.8	38	0	6
IDO1103			108	135	62.8	12.6	41	13	7
Norwest 553	143	123	117	112	62.0	13.0	32	0	2
<i>OR2100081H</i>				102	61.1	13.1	35	0	2
<i>OR2080236H</i>		98	96	92	58.6	13.5	35	0	2
SAS 4B	-----	-----	-----	Low Stand, No Data	-----	-----	-----	-----	0
SAS W7	-----	-----	-----	Low Stand, No Data	-----	-----	-----	-----	1
SAS W3	-----	-----	-----	Low Stand, No Data	-----	-----	-----	-----	1
SAS W4	-----	-----	-----	Low Stand, No Data	-----	-----	-----	-----	0
WA 8211	-----	-----	-----	Low Stand, No Data	-----	-----	-----	-----	0
WA 8189	-----	-----	-----	Low Stand, No Data	-----	-----	-----	-----	0
C.V. %	9	10	9	11	0.9	3.0	5	167	15
LSD (.10)	6	7	8	15	0.6	0.4	2	14	1
Average	148	117	127	130	60.9	12.6	38	8	6
Highest	173	134	151	185	64.2	14.6	49	65	9
Lowest	122	98	96	92	57.1	10.9	31	0	0

*Spring Stand Rating: 0 (no plants) - 9 (full stand)

Moses Lake Irrigated Hard Winter Wheat

1. Grain yield in the 2014 Moses Lake Irrigated hard winter wheat trial averaged 130 bushels/acre, less than to the five-year average of 148 bushels/acre. The Moses Lake nursery was located about seven miles southeast of Moses Lake, WA (G. Burkholder, Cooperator).
2. This nursery was seeded on 6 October, 2013 following potatoes. Seed was placed at a 95#/acre seeding rate using a plot drill with double disc openers set on 6-inch spacing. Base fertilizer was 140#N/acre applied at planting and 80#N/acre by irrigation. Based on a spring soil test showing 272 #/acre available N, 154#/acre of additional N was applied for hard wheat protein based on expected yields. Fall seeding conditions were good as was emergence and stand establishment. Ratings of spring stands are presented in the data table as an evaluation range from 0 (all appeared dead) to 9 (full stands). Fall establishment, cold tolerance and winter survival were factors in the spring stand values. Six entries with spring stand ratings less than '2' did not have adequate stands to evaluate further in the trial.
3. Yields reported ranged from 92 to 185 bushels/acre. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 4 of the 36 entries in this trial. The variety 'WB-Rimrock', was the highest yielding entry in the trial. Norwest 553 had the highest yield over 5 years at this location for names varieties. There was minor, inconsequential stripe rust observed at this location and no fungicide was applied.
4. Test weights averaged 60.9 lbs/bu and ranged from 57.1 to 64.2 lbs/bu. Grain protein at 12.6% averaged a little lower than in 2013 with a range of 10.9 to 14.6%. Plant height averaged 38 inches and some lodging occurred mostly by taller entries.