

2013 WSU Variety Testing Hard Winter Wheat Trial, Moses Lake

Variety Name <i>*Club Italicized</i>	5 YEAR AVERAGE (BU/A)	3 YEAR AVERAGE (BU/A)	2 YEAR AVERAGE (BU/A)	2013			
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	HEAD DATE
LCS Colonia				129	55.6	12.7	145
WB-Arrowhead				125	60.0	12.0	143
OR2080156H		146	122	122	58.8	12.9	145
Norwest 553	150	148	128	122	59.1	12.6	144
NSA06-4663				121	55.4	12.7	143
WA 8184				119	57.2	12.3	142
Boundary	148	135	121	119	59.0	12.5	144
Genesis		149	128	118	57.7	12.7	143
Whetstone				118	59.4	13.5	143
WA 8183				115	56.6	13.0	143
LCS-Azimut		143	119	113	53.6	12.6	143
DAS 2				112	59.8	13.1	143
DAS 1				112	58.5	12.8	142
Keldin				111	58.9	13.0	143
OR2080227H			116	107	56.0	13.1	144
WA 8185				106	58.6	13.3	145
OR2080229H			123	106	57.1	13.7	145
WA 8182				103	54.5	13.0	143
WB-Rimrock				101	59.7	12.2	144
JC1101				100	59.7	13.0	143
OR2080236H			101	100	56.8	14.0	146
WA 8186				98	56.5	13.2	145
AP503CL2				93	60.4	13.3	142
Finley			111	92	61.6	12.8	143
Sprinter (WA 8118)		124	80	82	56.7	14.6	143
JC1103				82	58.2	13.5	145
JC1102				80	58.2	12.8	144
Farnum			82	79	56.2	12.8	150
Eltan				74	54.9	12.9	148
Bauermeister	126	112	79	68	53.9	13.6	147
C.V. %	8	9	10	8	2.8	3.3	1
LSD (.10)	5	7	8	8	1.7	0.4	1
Average	150	142	109	104	57.6	13.0	144
Highest	169	162	128	129	61.6	14.6	150
Lowest	126	112	79	68	53.6	12.0	142

Moses Lake (Irrigated) Hard Winter Wheat – Preliminary Data

1. Grain yield in the 2013 Moses Lake irrigated hard winter wheat trial averaged 104 bushels/acre, 46 bushels/acre less than the 5-year average for this location. The Moses Lake nursery was located about 5 miles southeast of the Moses Lake, WA (J. Heilig, Cooperator).
2. This nursery was seeded on 17 October, 2012 following Potatoes. Seed was placed at a 100#/acre seeding rate using a double-disc plot drill set on 6-inch spacing. Base fertilizer was 200#N/acre pre-plant applied. Based on a spring soil test showing 397 lbs./acre available N, 27 #/acre of additional N was applied for hard wheat protein based on expected yields. Fall seeding conditions produced good emergence and stand establishment.
3. Yields ranged from 68 to 129 bushels/acre. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 5 of the 30 entries in this trial. The variety 'LCS Colonia' was the highest yielding named entry in the trial and 'Norwest 553' highest yielding in the 5-year average at this site. It is probable that some plants at this site experienced damaging frost. There was a low amount of stripe rust potential at this location and fungicide was applied once with the herbicide application.
4. Test weights averaged 57.6 lbs./bu and ranged from 53.6 to 61.6 lbs./bu. Grain protein averaged 13.0% with a range of 12.0 to 14.6%. Plant height and lodging were not recorded.