

2012 WSU Variety Testing SW 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)	2012					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE	LODGING (%)
Mary (OR2040726)		166	168	151	59.1	9.8	38	142	0
WB-528	174	165	164	150	58.9	12.5	40	144	27
IDO663			168	146	55.7	12.4	40	143	18
<i>ARS-Chrystal (ARS970075-3C)</i>	165	161	162	145	58.4	11.9	42	145	0
Goetze/Skiles		158	163	144	56.0	12.3	38	143	0
WA 8153				143	58.0	13.0	43	145	0
OR2071628			166	139	55.3	10.6	39	144	0
Eltan/Tubbs 06	161	157	157	138	56.2	12.2	42	145	27
LCS-Artdeco (NSA06-2153A)			159	137	55.4	11.3	37	143	0
Xerpha	172	158	164	136	56.0	11.7	41	147	0
OR08047P94				135	53.7	12.2	37	145	17
WA 8134			160	135	56.3	12.9	43	146	43
Otto (WA 8092)		146	156	135	56.1	12.8	43	147	42
WA 8142			150	135	57.7	12.2	40	145	0
ORCF-102	168	159	158	135	56.7	13.2	42	146	13
WA 8152				134	57.2	13.8	43	146	8
Stephens	172	161	163	133	55.9	12.2	37	142	0
OR2701071				132	53.4	11.6	39	145	0
LWW-04-4009				132	58.1	12.9	39	148	38
OR2070870				132	56.2	12.1	38	146	0
<i>ARS010762-2C</i>				130	56.5	11.5	44	146	0
WA 8154				129	59.2	11.3	43	145	0
ARS970277L reselect				128	55.0	12.5	41	147	25
Tubbs 06	167	156	159	127	54.2	13.6	43	145	13
Skiles	155	147	148	127	56.4	12.6	38	145	0
Madsen/Rod	161	154	156	127	55.4	12.5	42	148	20
WA 8135			148	126	58.0	13.2	44	147	0
ARS970161-2L				126	59.0	12.4	41	147	12
WA 8151				125	54.5	12.5	42	146	30
ARS970161-3L			147	125	59.5	12.6	41	146	0
<i>ARS990077-1C</i>				124	57.1	12.5	42	147	0
WA 8137				124	56.7	12.9	42	147	32
Madsen	158	150	149	123	57.0	11.9	40	146	15
<i>ARS010780-3C</i>				122	57.8	13.5	39	147	17
Masami	150	140	152	121	54.1	12.1	43	147	12
Rod	163	154	155	120	53.7	12.1	40	147	27
<i>Bruehl</i>	157	144	144	120	52.8	12.3	41	147	30
ARS-Amber (ARS960277L)	153	144	144	119	56.3	13.5	40	147	25
<i>Chukar</i>	144	137	134	116	55.0	13.6	42	148	65
WA 8143			144	110	55.2	12.7	42	147	33
WA 8116		145	143	110	56.0	13.4	38	146	25
<i>Coda</i>	142	136	135	110	58.6	13.2	42	147	47
Eltan	149	137	135	109	55.8	12.2	41	146	73
WA 8136			139	106	50.3	12.5	39	149	17
<i>ARS-Crescent (ARS970163-4C)</i>		136	134	106	54.5	11.8	42	148	38
<i>Cara</i>	144	139	133	106	53.5	14.3	40	146	7
WA 8155				100	54.4	12.7	41	147	40
ORCF-103	149	135	138	94	53.0	12.8	40	146	82

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				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE	LODGING (%)
C.V. %	7	7	7	10	3.4	9.7	3	1	122
LSD (.10)	5	6	8	13	2.0	1.3	1	1	25
Average	158	149	151	127	56.0	12.5	41	146	19
Highest	174	166	168	151	59.5	14.3	44	149	82
Lowest	142	135	133	94	50.3	9.8	37	142	0

Moses Lake (Irrigated) Soft White Winter Wheat - Preliminary Data

1. Grain yield in the 2012 irrigated Moses Lake soft white winter wheat trial averaged 127 bushels/acre, 31 bushels/acre lower than the 5-year average yield. The Moses Lake nursery was located about 7 miles south of Moses Lake, WA (J. Heilig, cooperator).

2. This nursery was seeded on 18 October, 2011 following potatoes. Seed was placed at an 85#/acre seeding rate using a double-disc plot drill set on 6-inch spacing. Base fertilizer was 200#N/acre applied pre-plant. Fall seeding conditions were good as were emergence and stand establishment.

3. Yields ranged from 94 to 151 bushels/acre. All yield values within the 10% LSD range of the highest yield are shown in bold. The recently released Oregon variety 'Mary' was the highest yielding entry in the trial, and there were 8 of the 48 entries within the top LSD range. 'WB-528' was the top yielding entry across five years of results at this location. Stripe rust potential at this location was low/moderate and fungicide was applied with the herbicide on 20 April and again on 24 May. Soil and water variability at this site was high. This influenced grain filling, maturity, and lodging. We also believe that heat stress affected later maturity tillers. Despite this variation, the yield CV was less than 10.

4. Test weights were highly variable averaging 56.0 lbs./bu and ranged from 50.3 to 59.5 lbs./bu. Grain protein averaged 12.5% and ranged from 9.8 to 14.3%. Plant height averaged 41 inches. Lodging was highly variable in this trial, averaged 19%, ranged from 0% to 82%, and influenced performance.