

2014 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)	2014					
				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	LODGING %	SPRING STAND*
WA 8169				185	59.4	11.1	40	7	8
IDN-02-08806A				182	61.8	11.1	39	0	9
Puma		145	150	179	60.9	11.2	42	0	7
SY Ovation			150	176	60.3	11.1	39	0	9
IDO1108DH			141	176	58.1	11.5	45	10	8
IDN-01-10704A				175	60.4	11.0	42	0	8
Tubbs 06	148	132	135	171	58.7	11.5	42	3	9
WB-528	153	140	135	170	61.7	11.2	39	8	9
AP700 CL			144	167	59.8	11.9	39	0	7
Xerpha	148	133	132	166	60.7	11.6	40	0	9
ARS-Selbu		136	141	166	61.3	11.6	38	0	8
WA 8176			140	165	61.3	11.9	45	0	8
Stephens	148	130	129	165	59.4	11.1	38	0	9
ARS010729-1L			148	165	61.9	12.0	38	0	6
WB-Junction			132	164	61.8	11.0	38	40	8
<i>ARS-Chrystal</i>	148	135	129	164	60.1	11.4	42	20	9
WA 8204				164	61.2	11.6	42	22	8
Bruneau			144	163	60.6	10.9	39	0	8
WB 456			140	163	62.6	11.7	37	0	8
<i>Bruehl</i>	137	124	126	163	56.5	11.9	39	52	9
WA 8206				163	62.4	11.0	40	0	8
Trifecta			136	163	61.6	11.3	39	0	8
IDN-02-29001A				162	60.0	11.6	40	0	7
WB 523			137	161	61.3	11.7	38	0	7
Kaseberg		134	132	160	58.9	11.2	37	0	6
WB-1070CL			142	158	63.2	11.5	36	0	8
Mary	156	144	140	158	59.6	11.7	38	0	9
IDN-04-00405B				157	59.8	11.3	37	0	8
UI-WSU Huffman (IDN-03-29902A)				157	60.3	11.6	40	0	7
SY 107				157	58.7	11.3	37	0	8
Skiles	142	132	134	157	60.4	11.9	36	0	7
WA 8187				156	61.1	11.4	36	0	7
<i>ARS010780-3C</i>		134	140	156	60.4	12.1	37	0	8
<i>ARS-Crescent</i>	132	119	125	156	58.4	11.6	38	38	8
ORCF-102				156	59.7	11.3	41	0	8
Otto				156	60.2	12.2	41	17	8
WA 8205				153	60.0	11.8	36	0	8
OR2080641			141	152	59.2	11.0	38	0	8
WA 8203				151	59.2	11.4	43	68	9
WA 8177				150	59.3	12.2	36	0	7
Bobtail		137	138	150	58.5	11.1	36	0	6
Madsen	142	128	130	149	59.6	12.0	40	0	8
<i>ARS010262-1C</i>				148	60.7	11.7	40	0	8
OR2090473				148	58.6	11.3	35	0	5
Legion			121	148	58.2	11.5	42	75	9
WA 8173			124	147	59.0	11.4	43	25	7
Eltan	128	112	113	147	60.4	11.5	38	87	9
LWW-04-4009		125	121	147	62.1	12.3	37	0	6

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				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	LODGING %	SPRING STAND*
Masami	130	117	116	146	56.6	11.6	43	37	9
<i>Cara</i>	134	119	125	146	58.4	12.7	38	0	7
ARS-Amber	135	121	122	143	58.7	11.2	39	0	9
WA 8188				143	60.4	12.1	40	0	6
Ladd (OR2070870)		130	129	142	59.7	12.6	35	0	6
<i>Coda</i>	129	116	119	142	62.4	12.2	40	37	7
LCS-Artdeco		131	127	140	59.3	10.3	34	0	6
LWW12-7105				135	57.0	11.2	30	0	6
WA 8212				133	59.3	12.0	35	0	7
LCS-Biancor				125	58.4	11.0	30	0	4
Rosalyn (OR2071071)		129	127	124	57.8	11.3	35	0	2
ORCF-103	125	104	109	118	57.8	11.8	38	77	9
C.V. %	7	8	7	7	1.4	2.7	3	116	10
LSD (.10)	5	7	7	11	0.9	0.3	1	13	1
Average	140	128	133	156	59.9	11.5	39	10	8
Highest	156	145	150	185	63.2	12.7	45	87	9
Lowest	125	104	109	118	56.5	10.3	30	0	2

Moses Lake Irrigated Soft White Winter Wheat

1. Grain yield in the 2014 Moses Lake Irrigated soft white winter wheat trial averaged 156 bushels/acre, higher than the five-year average of 144 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 double-disc plot drill with 6-inch row spacing. Base fertilizer was 145#N/acre applied before planting and 80#N/acre applied with irrigation. Soil test results showed 254#N/acre soil available in the spring. Fall seeding conditions were good as were emergence and stand establishment in the fall. Ratings of spring stands are presented in the data table as an evaluation range from 0 (all appeared dead) to 9 (full survival). Fall establishment, cold tolerance and winter survival were factors in the spring stand values.
3. Yields reported ranged from 118 to 185 bushels/acre. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 6 of the 60 entries in this trial. The variety 'Puma', a newly released variety from WSU, was the highest yielding named entry in the trial. 'Mary' had the highest yield over 5 years at this location. There was inconsequential stripe rust observed at this location and no fungicide was applied.
4. Test weights averaged 59.9 lbs/bu and ranged from 56.5 to 63.2 lbs/bu. Grain protein at 11.5% averaged lower than in 2013 with a range of 10.3 to 12.7%. Plant height averaged 39 inches and some entries lodged.