

2014 WSU Variety Testing SW Winter Wheat Trial, Dayton

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	HEAD DATE
LWW12-7105				64	57.0	11.6	29	144
ARS-Selbu		111	93	62	60.0	12.8	31	146
Xerpha	120	107	94	62	60.9	11.1	34	146
SY Ovation			97	60	59.9	11.6	32	145
Ladd (OR2070870)		106	90	60	58.0	13.1	30	145
AP700 CL			87	59	58.1	12.8	33	145
Mary	125	112	97	59	59.4	12.7	32	145
WA 8205				59	61.3	12.7	30	146
IDN-02-08806A				58	60.3	12.6	31	145
Rosalyn (OR2071071)		109	96	57	58.4	11.3	32	146
WA 8188				57	59.7	13.3	35	145
LCS-Biancor				57	58.5	11.9	28	144
WA 8212				56	59.6	13.5	28	146
ORCF-103	115	99	86	55	60.1	12.2	31	148
WB-528	124	110	94	55	60.0	11.9	34	144
Masami	110	101	85	54	59.0	12.7	33	148
OR2090473				53	58.5	12.7	30	145
WA 8176			88	53	60.4	12.5	35	148
Bruneau			92	53	59.0	12.5	33	146
Puma		108	91	52	58.8	13.1	35	145
SY 107				52	57.7	11.5	33	145
Skiles	128	103	85	52	58.6	13.5	31	145
LWW-04-4009		108	95	52	61.0	12.4	32	148
Trifecta			88	52	59.5	13.2	33	144
Legion			89	51	57.9	13.7	34	145
Madsen	121	100	81	51	59.3	12.9	32	146
WA 8206				50	62.0	12.6	33	145
Bobtail		107	87	50	57.9	12.0	33	144
UI-WSU Huffman (IDN-03-29902A)				50	59.1	12.6	31	147
IDO1108DH			87	50	59.3	12.1	35	147
ORCF-102				49	60.2	12.5	33	145
ARS010262-1C				49	59.2	12.9	28	148
Coda	119	102	86	49	59.8	13.3	31	149
ARS-Crescent	125	105	87	49	58.4	12.3	32	149
WA 8169				49	57.6	13.2	35	145
WB 456			83	49	58.7	13.9	30	144
ARS010729-1L			92	49	59.8	12.8	31	145
ARS010780-3C		98	82	48	60.3	13.6	31	149
Tubbs 06	113	104	91	48	57.9	13.2	35	145
LCS-Artdeco		112	90	48	56.2	12.5	33	144
WB 523			83	48	60.2	13.2	34	145
WA 8177				48	59.7	14.0	30	146
IDN-02-29001A				48	58.8	13.6	33	146
IDN-01-10704A				48	57.3	12.6	34	144
OR2080641			89	47	58.4	12.2	32	146
WA 8187				47	60.4	12.8	32	146
Eltan	109	90	82	47	60.3	13.3	29	150
WB-1070CL			88	47	60.8	12.7	33	144

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				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE
WA 8204				47	58.5	13.2	35	145
WB-Junction			84	46	57.7	13.3	32	145
<i>Bruehl</i>	126	103	86	46	59.0	12.9	31	149
Kaseberg		100	85	46	58.8	12.5	31	144
<i>Cara</i>	131	105	87	46	56.5	12.0	30	149
IDN-04-00405B				46	58.4	13.7	29	145
<i>ARS-Chrystal</i>	123	103	80	45	58.6	12.6	30	148
WA 8173			88	45	58.1	13.1	33	145
ARS-Amber	125	105	86	44	56.3	12.8	31	146
WA 8203				43	58.8	13.0	34	145
Stephens	119	102	81	42	57.1	13.8	32	144
Otto				42	59.7	13.6	31	150
C.V. %	7	8	7	11	1.2	6.8	5	1
LSD (.10)	4	4	4	6	0.8	0.9	2	1
Average	121	104	88	51	59.0	12.8	32	146
Highest	131	112	97	64	62.0	14.0	35	150
Lowest	109	90	80	42	56.2	11.1	28	144

Dayton Soft White Winter Wheat

1. Grain yield in the 2014 Dayton soft white winter wheat trial averaged 51 bushels/acre, less than half of the five-year average of 121 bushels/acre. The Dayton nursery was located about five miles northwest of Dayton, WA (J. Penner, Cooperator).
2. This nursery was seeded on 2 October, 2013 following chickpeas. Seed was placed at an 85#/acre seeding rate using a plot drill equipped with double-disc openers on 6-inch spacing. Base fertilizer was 166#N/acre pre-plant. Fall seeding and emergence were adequate. The entries survived cold December temperatures in this trial better than at many locations with only minor reduced stands evident in the spring. However, as early as heading there were water stress symptoms and stress symptoms were not uniform across the trial. Water stress also increased disease expression of Fusarium, decreased yield potential, and increased variability. The trial has merit, but interpretation of results should account for the low yield, a CV of 11%, and variability in the trial.
3. Yields reported ranged from 42 to 64 bushels/acre. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 9 of the 60 entries in this trial. The variety 'ARS-Selbu', was the highest yielding named entry in the trial. The club 'Cara' had the highest yield over five years at this location. Although no stripe rust was observed, fungicide was applied at herbicide timing.
4. Test weights averaged 59.0 lbs/bu and ranged from 56.2 to 62.0 lbs/bu. Grain protein at 12.8% averaged higher than in 2013 with a range of 11.1 to 14.0%. Plant height averaged 32 inches with no lodging.