

2014 WSU Variety Testing SW Winter Wheat Trial, Connell

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	SPRING STAND*
Eltan	44	33	35	37	62.0	12.6	25	142	9
CuriosityCL+ (WA 8143)		36	38	37	61.6	11.8	30	142	8
Otto	48	35	36	34	61.3	12.3	28	143	8
Xerpha	47	37	33	34	60.5	11.8	29	142	8
Masami	47	36	36	34	59.1	11.8	28	142	9
WA 8202				32	61.7	12.6	26	142	7
WA 8199				31	60.1	12.2	27	143	9
Eltan/Tubbs 06	45	33	33	31	59.3	12.6	28	142	8
Skiles	42	28	29	31	60.0	12.9	26	140	7
IDO1108DH			32	30	59.9	12.1	28	144	7
ARS-Selbu		33	33	30	61.0	12.6	27	142	8
LWW10-1073				30	59.5	13.4	30	140	7
Bobtail		34	34	30	57.5	11.5	25	142	6
MelaCL+ (WA 8155)		32	31	30	61.4	11.8	28	142	9
WA 8169			35	30	59.2	12.7	26	141	7
WB-Junction			31	30	61.2	12.5	26	138	8
<i>4J071366-1</i>				29	61.0	12.0	24	142	7
<i>ARS010780-3C</i>		35	34	29	60.9	12.4	25	144	8
<i>ARS-Crescent</i>	45	32	32	29	60.6	12.0	24	146	8
WA 8200				29	61.4	11.6	27	143	7
Tubbs 06	43	33	32	28	58.9	12.4	27	140	8
ORCF-102				28	60.2	13.1	28	141	8
OR2080641				28	58.1	12.2	26	141	7
<i>Bruehl</i>	43	28	26	28	59.8	12.5	27	143	7
WA 8170			30	28	60.5	12.3	28	141	6
IDN-02-29001A				28	60.7	13.0	27	139	7
Madsen	43	31	30	28	60.5	13.0	26	142	8
Puma		35	35	28	61.1	12.6	28	142	7
ARS-Amber	43	31	30	27	60.2	12.5	26	143	8
WA 8201				27	60.3	12.1	26	143	7
IDN-01-10704A				27	59.7	12.0	27	141	8
<i>4J071246-1C</i>			31	26	60.2	12.1	25	143	8
<i>ARS010262-1C</i>				26	61.1	12.4	25	142	7
ARS010729-1L			36	26	61.9	12.5	23	142	7
Stephens	36	23	26	25	57.6	13.1	25	140	8
Kaseberg		27	30	25	59.9	11.6	23	141	7
IDN-02-08806A				24	60.2	12.2	26	142	7
<i>Coda</i>	45	32	30	23	62.1	12.7	25	143	7
Trifecta			27	23	61.5	13.5	27	140	7
<i>ARS010679-1C</i>				23	57.9	13.3	25	143	9
<i>Cara</i>	42	27	25	22	58.4	12.0	22	145	8
IDN-04-00405B				22	58.8	12.2	25	138	8
ORCF-103	40	28	25	20	61.2	12.5	27	143	9
OR2090473				20	58.0	11.3	24	142	6
LWW12-7105				18	58.1	13.5	24	140	5
LWW-04-4009		28	24	17	60.9	13.3	24	144	6
LCS-Biancor	-----				Winter Kill, Variety Lost	-----			1
Rosalyn (OR2071071)	-----				Winter Kill, Variety Lost	-----			1

*Winter Survival Score: 0 (complete plot death) - 9 (full survival)

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				YIELD (BU/A)	TEST WT (LBS/BU)	PROTEIN (%)	PLANT HT	HEAD DATE	SPRING STAND*
C.V. %	11	13	12	12	1.2	3.5	5	1	15
LSD (.10)	2	2	3	3	0.7	0.5	1	1	1
Average	44	31	31	27	60.1	12.4	26	142	7
Highest	48	37	38	37	62.1	13.5	30	146	9
Lowest	36	23	24	17	57.5	11.3	22	138	1

Connell Soft White Winter Wheat

1. Grain yield in the 2014 Connell soft white winter wheat trial averaged 27 bushels/acre, well below the five-year average of 44 bushels/acre. The Connell nursery was located about six miles east of Connell, WA (D. Bauermeister, cooperator).

2. This nursery was seeded on 20 September, 2013 following fallow. Seed was placed at a 50#/acre seeding rate using a deep-furrow plot drill set on 15-inch spacing. Base fertilizer was 80#N/acre spring applied. Fall seeding conditions were dry early and thus this plot was later seeded after rainfall. Initial emergence and stand establishment were good. The crop emerged before fall dormancy and was vulnerable to the December cold conditions that contributed to winter injury on many varieties. Ratings of winter survival are presented in the table and range from 1 (nearly all dead) to 9 (full survival). Two varieties with the lowest spring stands did not have adequate stands to evaluate further in the trial. There were some seeding skips and lost plots in this trial, but adjustments for missed rows and missing plot values in the analyses allowed useful results from this trial. The statistical CV of 12% is typical for low rainfall sites and historically for this location.

3. Yields ranged from 17 to 37 bushels/acre. All yield values within the 10% LSD range of the highest yield are shown in bold and this included 5 of the 48 entries in this trial. The variety 'Eltan' was the highest yielding named entry in the trial followed closely by 'Curiosity CL+' the new two-gene Clearfield variety (Eltan type). There was no stripe rust observed at this location and no fungicide was applied.

4. Test weights averaged 60.1 lbs/bu and ranged from 57.5 to 62.1 lbs/bu. Grain protein averaged lower than in 2013 at 12.4% with a range of 11.3 to 13.5%. Plant height averaged 26 inches and there was no lodging.

*Winter Survival Score: 0 (complete plot death) - 9 (full survival)