

2014 WSU Variety Testing Hard Winter Wheat Trial, Connell

Variety Name <i>Hard White 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 (SWW Check)	42	32	33	35	61.5	11.9	28	143	8
Finley	39	27	30	34	62.7	12.9	31	139	9
Keldin			28	30	62.3	12.7	28	139	8
WB-Arrowhead			29	30	62.0	13.6	29	137	8
NSA10-7208				30	60.3	13.2	21	139	8
IDO816		32	33	29	62.9	13.1	28	141	8
<i>WA 8158</i>		33	33	29	62.2	13.4	26	142	6
<i>UI Silver</i>	40	30	31	29	62.6	12.9	30	140	7
<i>IDO1101</i>			31	28	63.7	13.1	25	138	8
Farnum	43	34	32	28	59.7	13.5	28	146	8
WA 8179			29	28	61.1	12.8	29	141	7
WA 8197				27	62.5	12.9	27	142	9
WA 8178			31	27	63.3	13.1	29	143	7
DAS 1			26	27	60.0	14.2	27	137	7
Whetstone			29	27	62.0	13.6	27	137	8
Boundary	38	28	29	26	61.7	13.3	25	141	8
LCS-Azimut		25	30	26	60.4	12.3	24	137	8
WA 8180			33	26	63.7	12.6	28	143	7
WA 8181			29	25	60.8	12.7	26	144	8
Sprinter	31	19	22	25	60.9	14.3	28	137	7
DAS 2			22	25	60.9	14.0	26	138	7
Bauermeister	40	29	28	24	61.3	12.4	25	144	8
IDO1103			25	24	62.8	13.9	25	139	8
UI SRG		27	30	24	63.2	13.8	32	139	8
WA 8207				24	61.0	12.8	30	143	8
LCS Colonia			33	24	59.8	12.6	24	144	5
<i>OR2100061H</i>				23	61.7	12.3	26	139	7
AP503 CL2			27	22	65.5	13.5	26	137	8
WA 8208				21	59.8	12.6	28	144	5
<i>WA 8184</i>				20	63.3	13.6	25	138	6
<i>OR2080156H</i>	32	24	24	19	63.2	15.0	24	142	5
LCS Evina				17	60.8	14.7	26	143	4
LCS Allezy	----- Winter Kill, Variety Lost -----								3
<i>OR2080236H</i>	----- Winter Kill, Variety Lost -----								2
Norwest 553	----- Winter Kill, Variety Lost -----								0
<i>OR2100081H</i>	----- Winter Kill, Variety Lost -----								1
C.V. %	12	13	13	14	2.1	4.0	5	1	18
LSD (.10)	2	2	3	4	1.4	0.6	1	1	1
Average	38	27	28	24	62.0	13.3	26	141	7
Highest	43	34	33	35	65.5	15.0	32	146	9
Lowest	31	19	22	17	59.7	11.9	21	137	0

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

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.